# COLORADO RIVER COMMISSION OF NEVADA AGENDA ITEM F FOR MEETING OF MARCH 8, 2022

# SUBJECT:

For Possible Action: Consideration of and possible action to approve a contract between the Colorado River Commission of Nevada and PAR Western Line Contractors, LLC, dba QUES, for design and engineering services in an amount not to exceed \$860,000.

# RELATED TO AGENDA ITEM:

None.

# **RECOMMENDATION OR RECOMMENDED MOTION:**

Staff recommends approval of a four-year contract in an amount not to exceed \$860,000 for Engineering Services between PAR Western Line Contractors, LLC, dba QUES and the Commission and authorize the Executive Director to sign it on behalf of the Commission.

# FISAL IMPACT:

Four-year contract with a not to exceed amount of \$860,000.

# STAFF COMMENTS AND BACKGROUND:

# A. Background on Operations

The Colorado River Commission of Nevada (Commission) owns, operates and maintains seventeen high voltage substations staffed by seven Commission employees in the Commission's Power Delivery Project Group (PDP). In addition, the Commission is responsible for the operation and maintenance of ten substations that are owned by the Southern Nevada Water Authority (SNWA) and three owned by the Clark County Water Reclamation District.

The Commission's staff includes in-house electrical engineer to provide engineering support for the system. As a result, Commission staff is capable of performing many routine engineering support functions. However, the Commission occasionally requires further engineering support for its operation and maintenance functions and to assist with the preparation of designs of ongoing and future projects for the agencies it serves.

The areas of expertise required periodically include, civil engineering for foundation, grading and structural design; communication engineering for assistance with the Commission's fiber optic and microwave radio communication system; and system studies. On a less frequent basis, the Commission requires expertise in environmental engineering and structural engineering for minor projects and problems.

# B. Request for Proposals for Engineering Firms

The Commission Staff began the process of recruiting qualified engineering firms through a Request for Proposals (RFP) process in the March of 2021. The RFP for engineering services was posted in the Las Vegas Review Journal, Reno Gazette Journal, on the Commission website and on NVEPro beginning on March 1, 2021. In addition to being posted, it was also sent to 38 vendors directly via email.

Deadline for submissions ended at 1:59pm on April 26, 2021. The Commission received a total of eight submissions. The evaluation period took place from May 3, 2021 – May 7, 2021.

# AGENDA ITEM F - STAFF COMMENTS AND BACKGROUND (CONTINUED) :

# C. Agreement for Consideration

The agreement for Commission's consideration today is with the firm PAR Western Line Contractors, LLC, dba QUES. The firm is a multi-discipline engineering company with expertise in all areas that may be required by the Commission's operation and maintenance function and for construction projects.

The agreement proposes to retain the services of PAR Western Line Contractors, LLC, dba QUES, for an initial contract term of four years, anticipated to begin subject to Board of Examiners approval. Work under the agreement will be authorized by Commission Staff, as needed through the development and execution of written task authorizations. The total combined value of task authorizations under this agreement shall not exceed \$860,000 over the term of the contract.

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#### **CONTRACT FOR SERVICES OF INDEPENDENT CONTRACTOR**

A Contract Between the State of Nevada Acting by and Through its

Agency Name:	Colorado River Commission of Nevada
Address:	555 E. Washington Avenue, Suite 3100
City, State, Zip Code:	Las Vegas, NV 89101
Contact:	Robert Reese
Phone:	702-682-6972
Fax:	702-856-3617
Email:	breese@crc.nv.gov

Contractor Name:	PAR Western Line Contractors, LLC, DBA QUES
Address:	4415 Andrews Street
City, State, Zip Code:	North Las Vegas, NV 89081
Contact:	Eric Manuel
Phone:	818-802-2528
Fax:	909-982-9479
Email:	emanuel@ques.com

WHEREAS, NRS 333.700 authorizes officers, departments, institutions, boards, commissions, and other agencies in the Executive Department of the State Government which derive their support from public money in whole or in part to engage, subject to the approval of the Board of Examiners (BOE), services of persons as independent contractors; and

WHEREAS, it is deemed that the service of Contractor is both necessary and in the best interests of the State of Nevada.

NOW, THEREFORE, in consideration of the aforesaid premises, the parties mutually agree as follows:

1. **REQUIRED APPROVAL**. This Contract shall not become effective until and unless approved by the Nevada State Board of Examiners.

#### 2. **DEFINITIONS**.

- A. "State" means the State of Nevada and any State agency identified herein, its officers, employees and immune contractors as defined in NRS 41.0307.
- B. "Contracting Agency" means the State agency identified above.
- C. "Contractor" or "Consultant" means the person or entity identified above that performs services and/or provides goods for the State under the terms and conditions set forth in this Contract.
- D. "Fiscal Year" means the period beginning July 1st and ending June 30th of the following year.
- E. "Contract" Unless the context otherwise requires, "Contract" means this document entitled Contract for Servicesof Independent Contractor and all Attachments or Incorporated Documents.
- F. "Contract for Independent Contractor" means this document entitled Contract for Services of Independent Contractor exclusive of any Attachments or Incorporated Documents.

3. **CONTRACT TERM.** This Contract shall be effective as noted below unless sooner terminated by either party as specified in *Section 10, Contract Termination*. Contract is subject to Board of Examiners' approval.

Effective from:	Upon Board of Examiners Approval	To:	03/01/2026
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- 4. **NOTICE**. All communications, including notices, required, or permitted to be given under this Contract shall be in writing and directed to the parties at the addresses stated above. Notices may be given: (i) by delivery in person; (ii) by a nationally recognized next day courier service, return receipt requested; or (iii) by certified mail, return receipt requested. If specifically requested by the party to be notified, valid notice may be given by facsimile transmission or electronic mail to the address(es) such party has specified in writing.
- 5. **INCORPORATED DOCUMENTS**. The parties agree that this Contract, inclusive of the following attachments, specifically describes the scope of work. This Contract incorporates the following attachments in descending order of constructive precedence:

ATTACHMENT A:	SCOPE OF WORK, and COST SCHEDULE
ATTACHMENT B:	INSURANCE SCHEDULE
ATTACHMENT C:	STATE SOLICITATION #69CRC-S1506
ATTACHMENT D:	VENDOR PROPOSAL

Any provision, term or condition of an Attachment that contradicts the terms of this Contract for Independent Contractor, or that would change the obligations of the State under this Contract for Independent Contractor, shall be void and unenforceable.

6. **CONSIDERATION**. The parties agree that Contractor will provide the services specified in *Section 5, Incorporated Documents* at a cost as noted below:

\$ Agreed	per	Task Authorization

Total Contract Not to Exceed:	\$860,000
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The State does not agree to reimburse Contractor for expenses unless otherwise specified in the incorporated attachments. Any intervening end to a biennial appropriation period shall be deemed an automatic renewal (not changing the overall Contract term) or a termination as the result of legislative appropriation may require.

- 7. **ASSENT**. The parties agree that the terms and conditions listed on incorporated attachments of this Contract are also specifically a part of this Contract and are limited only by their respective order of precedence and any limitations specified.
- 8. **BILLING SUBMISSION: TIMELINESS.** The parties agree that timeliness of billing is of the essence to the Contract and recognize that the State is on a Fiscal Year. All billings for dates of service prior to July 1 must be submitted to the state no later than the first Friday in August of the same calendar year. A billing submitted after the first Friday in August, which forces the State to process the billing as a stale claim pursuant to NRS 353.097, will subject Contractor to an administrative fee not to exceed one hundred dollars (\$100.00). The parties hereby agree this is a reasonable estimate of the additional costs to the state of processing the billing as a stale claim and that this amount will be deducted from the stale claim payment due to Contractor.

#### 9. **INSPECTION & AUDIT**.

- A. <u>Books and Records</u>. Contractor agrees to keep and maintain under generally accepted accounting principles (GAAP) full, true, and complete records, contracts, books, and documents as are necessary to fully disclose to the State or United States Government, or their authorized representatives, upon audits or reviews, sufficient information to determine compliance with all State and federal regulations and statutes.
- B. Inspection & Audit. Contractor agrees that the relevant books, records (written, electronic, computer related or otherwise), including, without limitation, relevant accounting procedures and practices of Contractor or its subcontractors, financial statements and supporting documentation, and documentation related to the work product shall be subject, at any reasonable time, to inspection, examination, review, audit, and copying at any office or location of Contractor where such records may be found, with or without notice by the State Auditor, the relevant State agency or its contracted examiners, the department of Administration, Budget Division, the Nevada State Attorney General's Office or its Fraud Control Units, the state Legislative Auditor, and with regard to any federal funding, the relevant federal agency, the Comptroller General, the General Accounting Office, the Office of the Inspector General, or any of their authorized representatives. All subcontracts shall reflect requirements of this Section. These inspection and audit rights will not apply to any agreed- upon fixed rates or percentage multipliers, or any rates, charges, costs, hours worked, or expenses related to services performed on a lump sum or fixed price basis.
- C. <u>Period of Retention</u>. All books, records, reports, and statements relevant to this Contract must be retained a minimum three (3) years, and for five (5) years if any federal funds are used pursuant to the Contract. The retention period runs from the date of payment for the relevant goods or services by the state, or from the date of termination of the Contract, whichever is later. Retention time shall be extended when an audit is scheduled or in progress for a period reasonably necessary to complete an audit and/or to complete any administrative and judicial litigation which may ensue.

#### 10. CONTRACT TERMINATION.

- A. <u>Termination Without Cause</u>. Regardless of any terms to the contrary, this Contract may be terminated upon written notice by mutual consent of both parties. The State unilaterally may terminate this contract without cause by giving not less than thirty (30) days' notice in the manner specified in *Section 4, Notice*. If this Contract is unilaterally terminated by the State, Contractor shall use its best efforts to minimize cost to the State and Contractor will not be paid for any cost that Contractor could have avoided. If the State terminates this Contract without cause, the State shall pay Contractor for Work completed prior to the termination.
- B. <u>State Termination for Non-Appropriation.</u> The continuation of this Contract beyond the current biennium is subject to and contingent upon sufficient funds being appropriated, budgeted, and otherwise made available by the State Legislature and/or federal sources. The State may terminate this Contract, and Contractor waives any and all claims(s) for damages, effective immediately upon receipt of written notice (or any date specified therein) if for any reason the contracting Agency's funding from State and/or federal sources is not appropriated or is withdrawn, limited, or impaired.
- C. <u>Termination with Cause for Breach</u>. A breach may be declared with or without termination. A notice of breach and termination shall specify the date of termination of the Contract, which shall not be sooner than the expiration of the Time to Correct, if applicable, allowed under subsection 10D. This Contract may be terminated by either party upon written notice of breach to the other party on the following grounds:
  - 1) If Contractor fails to provide or satisfactorily perform any of the conditions, work, deliverables, goods, or services called for by this Contract within the time requirements specified in this Contract or within any granted extension of those time requirements; or
  - 2) If any state, county, city, or federal license, authorization, waiver, permit, qualification, or certification required by statute, ordinance, law, or regulation to be held by Contractor to provide the goods or services required by this Contract is denied, revoked, debarred, excluded, terminated, suspended, lapsed, or not renewed; or
  - 3) If Contractor becomes insolvent, subject to receivership, or becomes voluntarily or involuntarily subject to the jurisdiction of the Bankruptcy Court; or
  - 4) If the State materially breaches any material duty under this Contract and any such breach impairs Contractor's ability to perform; or

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- 5) If it is found by the State that any quid pro quo or gratuities in the form of money, services, entertainment, gifts, or otherwise were offered or given by Contractor, or any agent or representative of Contractor, to any officer or employee of the State of Nevada with a view toward securing a contract or securing favorable treatment with respect to awarding, extending, amending, or making any determination with respect to the performing of such contract; or
- 6) If it is found by the State that Contractor has failed to disclose any material conflict of interest relative to the performance of this Contract.
- D. <u>Time to Correct</u>. Unless the breach is not curable, or unless circumstances do not permit an opportunity to cure, termination upon declared breach may be exercised only after service of formal written notice as specified in *Section 4, Notice*, and the subsequent failure of the breaching party within fifteen (15) calendar days of receipt of that notice to provide evidence, satisfactory to the aggrieved party, showing that the declared breach has been corrected or that a cure of the declared breach has been commenced. Upon a notice of breach, the time to correct and the time for termination of the contract upon breach under subsection 10C, above, shall run concurrently, unless the notice expressly states otherwise.
- E. <u>Winding Up Affairs Upon Termination</u>. In the event of termination of this Contract for any reason, the parties agree that the provisions of this Section survive termination:
  - The parties shall account for and properly present to each other all claims for fees and expenses and pay those which are undisputed and otherwise not subject to set off under this Contract. Neither party may withhold performance of winding up provisions solely based on nonpayment of fees or expenses accrued up to the time of termination.
  - 2) Contractor shall satisfactorily complete work in progress at the agreed rate (or a pro rata basis if necessary) if so requested by the Contracting Agency;
  - Contractor shall execute any documents and take any actions necessary to effectuate an assignment of this Contract if so requested by the Contracting Agency;
  - 4) Contractor shall preserve, protect, and promptly deliver into State possession all proprietary information in accordance with *Section 21, State Ownership of Proprietary Information*.
- 11. **REMEDIES**. Except as otherwise provided for by law or this Contract, the rights and remedies of the parties shall not be exclusive and are in addition to any other rights and remedies provided by law or equity, including, without limitation, actual damages, and to a prevailing party reasonable attorneys' fees and costs. For purposes of an award of attorneys' fees to either party, the parties stipulate and agree that a reasonable hourly rate of attorneys' fees shall be one hundred and fifty dollars (\$150.00) per hour. The State may set off consideration against any unpaid obligation of Contractor to any State agency in accordance with NRS 353C.190. In the event that Contractor voluntarily or involuntarily becomes subject to the jurisdiction of the Bankruptcy Court, the State may set off consideration against any unpaid obligation of Contractor to the State or its agencies, to the extent allowed by bankruptcy law, without regard to whether the procedures of NRS 353C.190 have been utilized.
- 12. LIMITED LIABILITY. The State will not waive and intends to assert available NRS Chapter 41 liability limitations in all cases. Contract liability of both parties shall not be subject to punitive damages. Damages for any State breach shall never exceed the amount of funds appropriated for payment under this Contract, but not yet paid to Contractor, for the Fiscal Year budget in existence at the time of the breach. Contractor's tort liability shall not be limited.
- 13. FORCE MAJEURE. Neither party shall be deemed to be in violation of this Contract if it is prevented from performing any of its obligations hereunder due to strikes, failure of public transportation, civil or military authority, pandemic, epidemic, quarantine, act of public enemy, accidents, fires, explosions, or acts of God, including without limitation, earthquakes, floods, winds, or storms. In such an event the intervening cause must not be through the fault of the party asserting such an excuse, and the excused party is obligated to promptly perform in accordance with the terms of the Contract after the intervening cause ceases. Contractor shall be entitled to an equitable adjustment in schedule and compensation for any such events. Given the existence of the COVID-19 / coronavirus pandemic, Contractor shall have the right to seek an excusable extension of time if Contractor or its subcontractors and suppliers are unable to maintain planned crew sizes or work force due to the illness, supply shortages or governmental restraints on business, travel and/or assembly.

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- 14. **INDEMNIFICATION AND DEFENSE**. To the fullest extent permitted by law, Contractor shall indemnify, hold harmless and defend, not excluding the State's right to participate, the State from and against all liability, claims, actions, damages, losses, and expenses, including, without limitation, reasonable attorneys' fees and costs, arising out of the Work done in fulfillment of the terms of this Contract or on account of any act, claim or amount arising or recovered under workers' compensation law or arising out of the failure of the Contractor to conform to any statutes, ordinances, regulation, law or court decree but in each instance, only to the extent caused by the negligent act or omission of Contractor. Contractor's obligation to indemnify the State shall apply in all cases except for claims arising solely from the State's own negligence or willful misconduct. Contractor waives any rights of subrogation against the State. Contractor's duty to defend begins when the State requests defense of any claim arising from this Contract.
- 15. **REPRESENTATIONS REGARDING INDEPENDENT CONTRACTOR STATUS**. Contractor represents that it is an independent contractor, as defined in NRS 333.700(2) and 616A.255, warrants that it will perform all work under this contract as an independent contractor, and warrants that the State of Nevada will not incur any employment liability by reason of this Contract or the work to be performed under this Contract. To the extent the State incurs any employment liability for the work under this Contract; Contractor will reimburse the State for that liability.
- 16. **INSURANCE SCHEDULE.** Unless expressly waived in writing by the State, Contractor must carry policies of insurance and pay all taxes and fees incident hereunto. Policies shall meet the terms and conditions as specified within this Contract along with the additional limits and provisions as described in *Attachment D*, incorporated hereto by attachment. The State shall have no liability except as specifically provided in the Contract.

Contractor shall not commence work before Contractor has provided the required evidence of insurance to the Contracting Agency. The State's approval of any changes to insurance coverage during the course of performance shall constitute an ongoing condition subsequent to this Contract. Any failure of the State to timely approve shall not constitute a waiver of the condition.

- A. <u>Insurance Coverage</u>. Contractor shall, at Contractor's sole expense, procure, maintain, and keep in force for the duration of the Contract insurance conforming to the limits as specified in *Attachment D*, incorporated hereto by attachment. Unless specifically stated herein or otherwise agreed to by the State, the required insurance shall be in effect prior to the commencement of work by Contractor and shall continue in force as appropriate until:
  - 1) Final acceptance by the State of the completion of this Contract; or
  - 2) Such time as the insurance is no longer required by the State under the terms of this Contract; whichever occurs later.

Any insurance or self-insurance available to the State shall be in excess of and non-contributing with, any insurance required from Contractor. Contractor's insurance policies shall apply on a primary basis. Until such time as the insurance is no longer required by the State, Contractor shall provide the State with renewal or replacement evidence of insurance within ten (10) days of the expiration or replacement of the required insurance. If at any time during the period when insurance is required by the Contract, an insurer or surety shall fail to comply with the requirements of this Contract, as soon as Contractor has knowledge of any such failure, Contractor shall immediately notify the State and immediately replace such insurance or bond with an insurer meeting the requirements.

- B. General Requirements.
  - <u>Additional Insured</u>: By endorsement to the general liability insurance policy, the State of Nevada, its officers, employees, and immune contractors as defined in NRS 41.0307 shall be named as additional insureds to the full limits of liability required by this Contract.
  - <u>Waiver of Subrogation</u>: Each insurance policy shall provide for a waiver of subrogation against the State of Nevada, its officers, employees, and immune contractors as defined in NRS 41.0307 for losses arising from work/materials/equipment performed or provided by or on behalf of Contractor.
  - 3) <u>Cross Liability</u>: All required liability policies shall provide cross-liability coverage as would be achieved under the standard ISO separation of insureds clause.
  - 4) <u>Deductibles and Self-Insured Retentions</u>: Insurance maintained by Contractor shall apply on a first dollar basis without application of a deductible or self-insured retention unless otherwise specifically agreed to by the State. Such approval shall not relieve Contractor from the obligation to pay any deductible or self-insured retention.

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Any deductible or self-insured retention shall be borne by the Contractor.

- 5) <u>Policy Cancellation</u>: Except for ten (10) days' notice for non-payment of premiums, each insurance policy shall be endorsed to state that without thirty (30) days prior written notice to the State of Nevada, c/o Contracting Agency, the policy shall not be canceled, non-renewed or coverage and/or limits reduced or materially altered, and shall provide that notices required by this Section shall be sent by certified mail to the address shown on page one (1) of this contract.
- 6) <u>Approved Insurer</u>: Each insurance policy shall be:
  - a) Issued by insurance companies authorized to do business in the State of Nevada or eligible surplus lines insurers acceptable to the State and having agents in Nevada upon whom service of process may be made; and
  - b) Currently rated by A.M. Best as "A-VII" or better.

#### C. Evidence of Insurance.

Prior to the start of any work, Contractor must provide the following documents to the contracting State agency:

 <u>Certificate of Insurance</u>: The Acord 25 Certificate of Insurance form or a form substantially similar must be submitted to the State to evidence the insurance policies and coverages required of Contractor. The certificate must name the State of Nevada, its officers, employees, and immune contractors as defined in NRS 41.0307 as the certificate holder. The certificate should be signed by a person authorized by the insurer to bind coverage on its behalf. The State project/Contract number; description and Contract effective dates shall be noted on the certificate, and upon renewal of the policies listed, Contractor shall furnish the State with replacement certificates as described within Section 16A, Insurance Coverage.

# Mail all required insurance documents to the State Contracting Agency identified on Page one of the Contract.

- 2) <u>Additional Insured Endorsement</u>: An Additional Insured Endorsement (CG 20 10 04 13 or CG 20 37 04 13), signed by an authorized insurance company representative, must be submitted to the State to evidence the endorsement of the State as an additional insured per *Section 16B, General Requirements*.
- 3) <u>Schedule of Underlying Insurance Policies</u>: If Umbrella or Excess policy is evidenced to comply with required limits, a copy of the underlying Schedule from the Umbrella or Excess insurance policy may be required.
- 4) <u>Review and Approval</u>: Documents specified above must be submitted for review and approval by the State prior to the commencement of work by Contractor. Neither approval by the State nor failure to disapprove the insurance furnished by Contractor shall relieve Contractor of Contractor's full responsibility to provide the insurance required by this Contract. Compliance with the insurance requirements of this Contract shall not limitthe liability of Contractor or its subcontractors, employees or agents to the State or others, and shall be in additional to and not in lieu of any other remedy available to the State under this Contract or otherwise. The State reserves the right to request and review a copy of any required insurance endorsement, as appropriate, to assure compliance with these requirements.
- 17. **COMPLIANCE WITH LEGAL OBLIGATIONS.** Contractor shall procure and maintain for the duration of this Contract any state, county, city or federal license, authorization, waiver, permit qualification or certification required by statute, ordinance, law, or regulation to be held by Contractor to provide the goods or services required by this Contract. Contractor shall provide proof of its compliance upon request of the Contracting Agency. Contractor will be responsible to pay all taxes, assessments, fees, premiums, permits, and licenses required by law. Real property and personal property taxes are the responsibility of Contractor in accordance with NRS 361.157 and NRS 361.159. Contractor agrees to be responsible for payment of any such government obligations not paid by its subcontractors during performance of this Contract.
- 18. **WAIVER OF BREACH**. Failure to declare a breach or the actual waiver of any particular breach of the Contract or its material or nonmaterial terms by either party shall not operate as a waiver by such party of any of its rights or remedies as to any other breach.

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- 19. **SEVERABILITY.** If any provision contained in this Contract is held to be unenforceable by a court of law or equity, this Contract shall be construed as if such provision did not exist, and the non-enforceability of such provision shall not be held to render any other provision or provisions of this Contract unenforceable.
- 20. **ASSIGNMENT/DELEGATION.** To the extent that any assignment of any right under this Contract changes the duty of either party, increases the burden or risk involved, impairs the chances of obtaining the performance of this Contract, attempts to operate as a novation, or includes a waiver or abrogation of any defense to payment by State, such offending portion of the assignment shall be void, and shall be a breach of this Contract. Contractor shall neither assign, transfer nor delegate any rights, obligations nor duties under this Contract without the prior written consent of the State.
- 21. **STATE OWNERSHIP OF PROPRIETARY INFORMATION**. Any data or information provided by the State to Contractor and any documents or materials provided by the State to Contractor in the course of this Contract ("State Materials") shall be and remain the exclusive property of the State and all such State Materials shall be delivered into State possession by Contractor upon completion, termination, or cancellation of this Contract.
- 22. **PUBLIC RECORDS.** Pursuant to NRS 239.010, information or documents received from Contractor may be open to public inspection and copying. The State has a legal obligation to disclose such information unless a particular record is made confidential by law or a common law balancing of interests. Contractor may label specific parts of an individual document as a "trade secret" or "confidential" in accordance with NRS 333.333, provided that Contractor thereby agrees to indemnify and defend the State for honoring such a designation. The failure to so label any document that is released by the State shall constitute a complete waiver of any and all claims for damages caused by any release of the records.
- 23. **CONFIDENTIALITY**. Contractor shall keep confidential all information, in whatever form, produced, prepared, observed, or received by Contractor to the extent that such information is confidential by law or otherwise required by this Contract.
- 24. **FEDERAL FUNDING**. In the event federal funds are used for payment of all or part of this Contract, Contractor agrees to comply with all applicable federal laws, regulations, and executive orders, including, without limitation the following:
  - A. Contractor certifies, by signing this Contract, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any federal department or agency. This certification is made pursuant to Executive Orders 12549 and 12689 and Federal Acquisition Regulation subpart 9.4, and any relevant program-specific regulations. This provision shall be required of every subcontractor receiving any payment in whole or in part from federal funds.
  - B. Contractor and its subcontracts shall comply with all terms, conditions, and requirements of the Americans with Disabilities Act of 1990 (P.L. 101-136), 42 U.S.C. 12101, as amended, and regulations adopted thereunder, including 28 C.F.R. Section 35, inclusive, and any relevant program-specific regulations.
  - C. Contractor and its subcontractors shall comply with the requirements of the Civil Rights Act of 1964 (P.L. 88-352), as amended, the Rehabilitation Act of 1973 (P.L. 93-112), as amended, and any relevant program-specific regulations, and shall not discriminate against any employee or offeror for employment because of race, national origin, creed, color, sex, religion, age, disability, or handicap condition (including AIDS and AIDS-related conditions.)
- 25. **LOBBYING**. The parties agree, whether expressly prohibited by federal law, or otherwise, that no funding associated with this Contract will be used for any purpose associated with or related to lobbying or influencing or attempting to lobby or influence for any purpose the following:
  - A. Any federal, state, county or local agency, legislature, commission, council or board;
  - B. Any federal, state, county or local legislator, commission member, council member, board member, or other elected official; or
  - C. Any officer or employee of any federal, state, county or local agency; legislature, commission, council or board.
- 26. **GENERAL WARRANTY**. Contractor warrants that all services, deliverables, and/or work products under this Contract shall be completed in a workmanlike manner consistent with standards in the trade, profession, or industry; shall conform to or exceed the specifications set forth in the incorporated attachments; and shall be fit for ordinary use, of good quality, with no material defects.

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- 27. **PROPER AUTHORITY**. The parties hereto represent and warrant that the person executing this Contract on behalf of each party has full power and authority to enter into this Contract. Contractor acknowledges that as required by statute or regulation this Contract is effective only after approval by the State Board of Examiners and only for the period of time specified in the Contract. Any services performed by Contractor before this Contract is effective or after it ceases to be effective are performed at the sole risk of Contractor.
- 28. **DISCLOSURES REGARDING CURRENT OR FORMER STATE EMPLOYEES.** For the purpose of State compliance with NRS 333.705, Contractor represents and warrants that if Contractor, or any employee of Contractor who will be performing services under this Contract, is a current employee of the State or was employed by the State within the preceding 24 months, Contractor has disclosed the identity of such persons, and the services that each such person will perform, to the Contracting Agency.
- 29. ASSIGNMENT OF ANTITRUST CLAIMS. Contractor irrevocably assigns to the State any claim for relief or cause of action which Contractor now has, or which may accrue to Contractor in the future by reason of any violation of State of Nevada or federal antitrust laws in connection with any goods or services provided under this Contract.
- 30. **GOVERNING LAW: JURISDICTION**. This Contract and the rights and obligations of the parties hereto shall be governed by, and construed according to, the laws of the State of Nevada, without giving effect to any principle of conflict-of-law that would require the application of the law of any other jurisdiction. The parties consent to the exclusive jurisdiction of and venue in the First Judicial District Court, Carson City, Nevada for enforcement of this Contract, and consent to personal jurisdiction in such court for any action or proceeding arising out of this Contract.
- 31. **LIMITATION OF LIABILITY**. Notwithstanding anything else to the contrary, Contractor's liability hereunder, from any cause and based on any theory whatsoever, shall not in the aggregate exceed fifteen million dollars (\$15,000,000), hereunder, except to the extent of Contractor's (including parties under its control) willful misconduct, and/or breach of confidentiality provisions, and Contractor's indemnity obligations hereunder for third party claims.
- 32. LATENT SITE CONDITIONS. Anything to the contrary notwithstanding, should concealed or unknown physical conditions be encountered in the performance of the Work, below the surface of the ground or in an existing structure, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this Contract, the Contract sum and time for performance shall be equitably adjusted by Change Order.
- 33. ENTIRE CONTRACT AND MODIFICATION. This Contract and its integrated attachment(s) constitute the entire agreement of the parties and as such are intended to be the complete and exclusive statement of the promises, representations, negotiations, discussions, and other agreements that may have been made in connection with the subject matter hereof. Unless an integrated attachment to this Contract specifically displays a mutual intent to amend a particular part of this Contract, general conflicts in language between any such attachment and this Contract shall be construed consistent with the terms of this Contract. Unless otherwise expressly authorized by the terms of this Contract, no modification or amendment to this Contract shall be binding upon the parties unless the same is in writing and signed by the respective parties hereto and approved by the Office of the Attorney General and the State Board of Examiners. This Contract, and any amendments, may be executed in counterparts.

# RFP# ES-21-01 IN WITNESS WHEREOF, the parties hereto have caused this Contract to be signed and intend to be legally bound thereby.

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AR WESTERN LINE CONTRACTOR	S, LLC	
		President
Alyx Galan	Date	Independent Contractor's Title
COLORADO RIVER COMMIS	SION OF NEVAI	DA
		Executive Director
Eric Witkoski	Date	Title
		APPROVED BY BOARD OF EXAMINERS
Signature – Board of Examiners		
	C	)n:
		Date
Approved as to form by:		
		)n:
Christine Guerci-Nyhus, Deputy Attorney	General for	Date

Attorney General

#### **SCOPE OF WORK**

#### 3.1 SERVICES TO BE PERFORMED

The services to be performed by the vendor consist of engineering, drafting, and analysis, as may be required from time to time, for (1) the routine operation and maintenance of a high voltage transmission and distribution system, or (2) the upgrade, repair or extension of a high voltage transmission and distribution system. Categories indicating the types of services that may be requested of the vendor are as follows:

3.1.1 Preparation of fault duty studies, relay coordination studies, load flow studies and other similar type system studies needed to effectively monitor and control the electric system;

3.1.2 Analysis of fault data and relay target data to identify the causes of various relay operations;

3.1.3 Preparation of right-of-way encroachment analysis, including phase-to-phase clearance requirements from planned third party transmission lines;

3.1.4 Preparation of transmission structure re-location designs;

3.1.5 Preparation of designs and specifications for replacement, repair, modification, upgrade or extension projects;

3.1.6 Preparation of spill prevention and counter control plans for substation oil containing equipment;

3.1.7 Preparation of standard operating procedures, preventative maintenance programs, site security reviews and emergency response plans;

3.1.8 Supervisory and data acquisition control system programming; and

3.1.9 Communication system planning and analysis, including preparation of microwave signal interference studies.

The Commission shall authorize the work of the vendor by individual tasks on an as-needed basis. The Commission may utilize the services of the vendor on all, some or none of the various categories of work listed herein.

# **COST SCHEDULE** Engineering Services

Vendor Name: Quanta Utility Engineering Services, Inc.

Direct Labor – Job Titles	Hourly Rate
A. Senior Engineer	\$188.52
B. Engineer	\$162.73
C. Junior Engineer	\$139.27
D. Engineer in Training	\$104.33
E. Designer	\$128.92
F. Drafter	\$107.41
G. Project Manager	\$163.29
H. Project Coordinator	\$135.20
I. 1-Man Survey Crew	\$243.00
J. 2-Man Survey Crew	\$318.20
K. Professional Land Surveyor	\$178.20

\*Prevailing Wage applied to Land Surveying classifications.

# ATTACHMENT B

#### **INSURANCE REQUIREMENTS:**

Consultant and sub-consultants shall procure and maintain until all of their obligations have been discharged, including any warranty periods under this Contract are satisfied, insurance against claims for injury to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Consultant, his agents, representatives, employees or sub-consultants.

The insurance requirements herein are the requirements for this Contract and in no way limit the indemnity covenants contained in this Contract.

The State in no way warrants that the limits contained herein are sufficient to protect the Consultant from liabilities that might arise out of the performance of the work under this Contract by the Consultant, his agents, representatives, employees, or sub-consultants. Consultant is free to purchase such additional insurance as may be determined necessary.

A. <u>MINIMUM SCOPE AND LIMITS OF INSURANCE</u> - Consultant shall provide coverage with limits of liability not less than those stated below. An excess liability policy or umbrella liability policy may be used to meet the required liability requirements provided that the coverage is written on a "following form" basis.

#### 1. Commercial General Liability – Occurrence Form

Policy shall include bodily injury, property damage, broad form contractual liability and XCU coverage.

٠	General Aggregate	\$2,000,000
•	Products – Completed Operations Aggregate	\$1,000,000
•	Personal and Advertising Injury	\$1,000,000
•	Each Occurrence	\$1,000,000

a. The policy shall be endorsed to include the following additional insured language: "To the full limits of liability required by this Contract, The State of Nevada, Colorado River Commission of Nevada shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of theConsultant".

#### 2. Automobile Liability

Bodily injury and property damage for any owned, hired, and non-owned vehicles used in the performance of this Contract.

Combined Single Limit (CSL) \$1,000,000

**a.** The policy shall be endorsed to include the following additional insured language: "To the full limits of liability required by this Contract, The State of Nevada, Colorado River Commission of Nevada shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the Consultant, including automobiles owned, leased, hired or borrowed by the Consultant".

#### 3. Worker's Compensation and Employers' Liability

Workers' Compensation	Statutory
Employers' Liability	
Each Accident	\$100,000
Disease – Each Employee	\$100,000
Disease – Policy Limit	\$500,000

- a. Policy shall contain a waiver of subrogation against the State of Nevada.
- b. This requirement shall not apply when a contractor or subcontractor is exempt under N.R.S., **AND** when such contractor or subcontractor executes the appropriate sole proprietor waiver form.

#### 4. Professional Liability (Errors and Omissions Liability)

Each Claim	\$1,000,000
Annual Aggregate	\$2,000,000

- a. In the event that any professional liability insurance required by this Contract is written on a claims-made basis, Consultant warrants that any retroactive date under the policy shall precede the effective date of this Contract; and that either continuous coverage will be maintained, or an extended discovery period will be exercised for a period of two (2) years beginning at the time work under this Contract is completed.
- b. Policy shall contain a waiver of subrogation against the State of Nevada.
- B. **ADDITIONAL INSURANCE REQUIREMENTS:** The policies shall include, or be endorsed to include the following provisions:
  - 1. On insurance policies where the State of Nevada is named as an additional insured, the State shall be an additional insured to the full limits of liability purchased by the Consultant even if those limits of liability are in excess of those required by this Contract.
  - 2. The Consultant's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.
- C. <u>NOTICE OF CANCELLATION:</u> Contractor shall for each insurance policy required by the insurance provisions of this Contract shall not be suspended, voided, or canceled except after providing thirty (30) days prior written notice been given to the State, except when cancellation is for non-payment of premium, then ten (10) days prior notice may be given. Such notice shall be sent directly to **Robert Reese, 555 E. Washington Ave., Suite 3100, Las Vegas, NV 89101.** Should contractor fail to provide State timely notice, contractor will be considered in breach and subject to cure provisions set forth within this contract.
- D. <u>ACCEPTABILITY OF INSURERS:</u> Insurance is to be placed with insurers duly licensed or authorized to do business in the state of Nevada and with an "A.M. Best" rating of not less than A-VII. The State in no way warrants that the above-required minimum insurer rating is sufficient to protect the Consultant from potential insurer insolvency.
- E. <u>VERIFICATION OF COVERAGE:</u> Consultant shall furnish the State with certificates of insurance (ACORD form or equivalent approved by the State) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

All certificates and any required endorsements are to be received and approved by the State before work commences. Each insurance policy required by this Contract must be in effect at or prior to commencement of work under this Contract and remain in effect, or be renewed, for the duration of the project. Failure to maintain the insurance policies as required by this Contract or to provide evidence of renewal is a material breach of contract.

All certificates required by this Contract shall be sent directly to **Robert Reese**, **555 E. Washington Ave., Suite 3100, Las Vegas, NV 89101**. The State project/contract number and project description shall be noted on the certificate of insurance. The State reserves the right to require complete, certified copies of all endorsements required by this Contract at any time.

- F. <u>SUBCONSULTANTS:</u> All required sub-consultant's certificates and endorsements are to be received and approved by the State before work commences. All insurance coverages for sub-consultants shall be subject to the minimum requirements identified above, unless otherwise specified in this Contract.
- G. <u>APPROVAL:</u> Any modification or variation from the insurance requirements in this Contract shall be made by the State Attorney General's Office or the Risk Manager, whose decision shall be final. Such action will not require a formal Contract amendment but may be made by administrative action.

State of Nevada

Colorado River Commission of Nevada

555 E. Washington Ave., Suite 3100 Las Vegas, NV 89101-1065



Steve Sisolak Governor

Eric Witkoski Executive Director

State of Nevada Colorado River Commission of Nevada Request for Proposal: ES-21-01 For ENGINEERING SERVICES

Release Date: 03/01/2021Deadline for Submission and Opening Date and Time:April 26, 2021 @ 2:00 pm

For additional information, please contact: Robert D. Reese, Assistant Director, Engineering and Operations State of Nevada, Colorado River Commission of Nevada 555 E. Washington Avenue, Suite 3100 Las Vegas, NV 89101-1065 Phone: 702-486-2670 Email address: breese@crc.nv.gov

Refer to Section 9 for instructions on submitting proposals

# **VENDOR INFORMATION SHEET FOR RFP ES-21-01**

#### Vendor Shall:

- A) Provide all requested information in the space provided next to each numbered question. The information provided in Sections V1 through V3 shall be used for development of the contract;
- B) Type or print responses; and
- C) Include this Vendor Information Sheet in Section III of the Technical Proposal.

<b>V</b> 1	Company Name
V I	

Γ			Company Address
	V2	Street Address:	
		City, State, Zip Code:	

		Т	elephone Numbers	
		Area Code	Number	Extension
V3	Telephone:			
	Fax:			
	Toll Free:			

		Contact Person for Questions / Contract Negotiations, including address if different than above
	Name:	
	Title:	
V4	Address:	
	Email Address:	
	Telephone Number:	
	Fax:	

		Name of Individual Authorized to Bind the Organization
V5	Name:	
	Title:	

	Signature (Individual shall be legally authorized to bind the vendor per	• NRS 333.337)
V6	Signature:	Date:

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Prospective vendors are advised to review Nevada's ethical standards requirements, including but not limited to NRS 281A, NRS 333.800, and NAC 333.155.

All applicable Nevada Revised Statutes (NRS) and Nevada Administrative Code (NAC) documentation can be found at: <u>www.leg.state.nv.us/law1.cfm</u>-

# **PROJECT OVERVIEW**

The Colorado River Commission of Nevada (CRCNV) is seeking proposals from qualified vendors to provide engineering services on an as needed basis to assist the CRCNV with projects associated with the operation and maintenance of its high-voltage electrical transmission and distribution system. The CRCNV desires to contract with one or more engineering firms for the performance of professional services.

#### **ACRONYMS/DEFINITIONS**

For the purposes of this RFP, the following acronyms/definitions will be used:

An idea or belief that something will happen or occur without proof. An idea or belief taken for granted without proof of occurrence. The organization/individual that is awarded and has an approved contract with the State of Nevada for the services identified in this RFP. State of Nevada Board of Examiners
State of Nevada for the services identified in this RFP.
State of Nevada Board of Examiners
Colorado River Commission of Nevada
Any information relating to the amount or source of any income, profits, losses or expenditures of a person, including data relating to cost or price submitted in support of a bid or proposal. The term does not include the amount of a bid or proposal. Refer NRS §333.020(5) (b).
The date the State of Nevada Board of Examiners officially approves and accepts all contract language, terms and conditions as negotiated between the State and the successful vendor.
The date when vendors are notified that a contract has been successfully negotiated, executed and is awaiting approval of the Board of Examiners.
The company or organization that has an approved contract with the State of Nevada for services identified in this RFP. The contractor has full responsibility for coordinating and controlling all aspects of the contract, including support to be provided by any subcontractor(s). The contractor will be the sole point of contact with the State relative to contract performance.
A reference from one document/section to another document/section containing related material.
as Jn Jf Fv

Acronym	Description		
Evaluation Committee	An independent committee comprised of a majority of State officers or employees established to evaluate and score proposals submitted in response to the RFP pursuant to NRS §333.335.		
Exception	A formal objection taken to any statement/requirement identified within the RFP.		
Key Personnel	Vendor staff responsible for oversight of work during the life of the project and for deliverables, as applicable.		
LOI	Letter of Intent - notification of the State's intent to award a contract to a vendor, pending successful negotiations; all information remains confidential until the issuance of the formal notice of award.		
May	Indicates something that is not mandatory but permissible.		
Must	Indicates a mandatory requirement. Failure to meet a mandatory requirement may result in the rejection of a proposal as non-responsive.		
NAC	Nevada Administrative Code –All applicable NAC documentation may be reviewed via the internet at: <u>www.leg.state.nv.us</u> .		
NOA	Notice of Award – formal notification of the State's decision to award a contract, pending Board of Examiners' approval of said contract, any non-confidential information becomes available upon written request.		
NRS	Nevada Revised Statutes – All applicable NRS documentation may be reviewed via the internet at: <u>www.leg.state.nv.us</u> .		
Pacific Time (PT)	Unless otherwise stated, all references to time in this RFP and any subsequent contract are understood to be Pacific Time.		
Proprietary Information	Any trade secret or confidential business information that is contained in a bid or proposal submitted on a particular contract. (Refer to NRS 333.020 (5) (a).		
Public Records	All books and public records of a governmental entity, the contents of which are not otherwise declared by law to be confidential must be open to inspection by any person and may be fully copied or an abstract or memorandum may be prepared from those public books and public records. (Refer to NRS 333.333 and NRS 600A.030 [5]).		
Redacted	The process of removing confidential or proprietary information from a document prior to release of information to others.		
RFP	Request for Proposal; a written statement which sets forth the requirements and specifications of a contract to be awarded by competitive selection NRS §333.020(7).		
Shall	Indicates a mandatory requirement. Failure to meet a mandatory requirement may result in the rejection of a proposal as non-responsive.		

Acronym	Description	
Should	Indicates something that is recommended but not mandatory. If the vendor fails to provide recommended information, the State may, at its sole option, ask the vendor to provide the information or evaluate the proposal without the information.	
State	The State of Nevada and any agency identified herein.	
Subcontractor	Third party not directly employed by the vendor, who will provide services identified in this RFP. This does not include third parties who provide support or incidental services to the vendor.	
Trade Secret	Information, including, without limitation, a formula, pattern, compilation, program, device, method, technique, product, system, process, design, prototype, procedure, computer programming instruction or code that: derives independent economic value, actual or potential, from not being generally known to, and not being readily ascertainable by proper means by the public or any other person who can obtain commercial or economic value from its disclosure or use; and is the subject of efforts that are reasonable under the circumstances to maintain its secrecy.	
Vendor	Organization/individual submitting a proposal in response to this RFP.	
Will	Indicates a mandatory requirement. Failure to meet a mandatory requirement may result in the rejection of a proposal as non-responsive.	

# 2.1 STATE OBSERVED HOLIDAYS

The State observes the holidays noted in the following table. When January 1<sup>st</sup>, July 4<sup>th</sup>, November 11<sup>th</sup> or December 25<sup>th</sup> falls on Saturday, the preceding Friday is observed as the legal holiday. If these days fall on Sunday, the following Monday is the observed holiday.

Holiday	Day Observed
New Year's Day	January 1
Martin Luther King Jr.'s Birthday	Third Monday in January
Presidents' Day	Third Monday in February
Memorial Day	Last Monday in May
Independence Day	July 4
Labor Day	First Monday in September
Nevada Day	Last Friday in October
Veterans' Day	November 11
Thanksgiving Day	Fourth Thursday in November
Family Day	Friday following the Fourth Thursday in November
Christmas Day	December 25

#### **SCOPE OF WORK**

#### **3.1 SERVICES TO BE PERFORMED**

The services to be performed by the vendor consist of engineering, drafting, and analysis, as may be required from time to time, for (1) the routine operation and maintenance of a high voltage transmission and distribution system, or (2) the upgrade, repair or extension of a high voltage transmission and distribution system. Categories indicating the types of services that may be requested of the vendor are as follows:

3.1.1 Preparation of fault duty studies, relay coordination studies, load flow studies and other similar type system studies needed to effectively monitor and control the electric system;

3.1.2 Analysis of fault data and relay target data to identify the causes of various relay operations;

3.1.3 Preparation of right-of-way encroachment analysis, including phase-to-phase clearance requirements from planned third party transmission lines;

3.1.4 Preparation of transmission structure re-location designs;

3.1.5 Preparation of designs and specifications for replacement, repair, modification, upgrade or extension projects;

3.1.6 Preparation of spill prevention and counter control plans for substation oil containing equipment;

3.1.7 Preparation of standard operating procedures, preventative maintenance programs, site security reviews and emergency response plans;

3.1.8 Supervisory and data acquisition control system programming; and

3.1.9 Communication system planning and analysis, including preparation of microwave signal interference studies.

The Commission shall authorize the work of the vendor by individual tasks on an as-needed basis. The Commission may utilize the services of the vendor on all, some or none of the various categories of work listed herein.

#### **COMPANY BACKGROUND AND REFERENCES**

#### 4.1 **VENDOR INFORMATION**

4.1.1 Vendors shall provide a company profile in the table format below.

Question	Response
Company Name:	
Ownership (sole proprietor, partnership, etc.):	

Question	Response
State of incorporation:	2.1
Date of incorporation:	
# of years in business:	
List of top officers:	
Location of company headquarters, to include City and State:	
Location(s) of the office that shall provide the services described in this RFP:	
Number of employees locally with the expertise to support the requirements identified in this RFP:	
Number of employees nationally with the expertise to support the requirements in this RFP:	
Location(s) from which employees shall be assigned for this project:	

- 4.1.2 Pursuant to NRS 333.3354, the State of Nevada awards a five percent (5%) preference to a vendor certifying that its principal place of business is in Nevada. The term 'principal place of business' has the meaning outlined by the United States Supreme Court in <u>Hertz Corp v. Friend</u>, 559 U.S. 77 (2010), typically meaning a company's corporate headquarters. This preference cannot be combined with any other preference, granted for the award of a contract using federal funds, or granted for the award of a contract procured on a multi-state basis. To claim this preference a business must submit a letter with its proposal showing that it qualifies for the preference.
- 4.1.3 **Please be advised**, pursuant to NRS 80.010, a corporation organized pursuant to the laws of another state shall register with the State of Nevada, Secretary of State's Office as a foreign corporation before a contract can be executed between the State of Nevada and the awarded vendor, unless specifically exempted by NRS 80.015.
- 4.1.4 The selected vendor, prior to doing business in the State of Nevada, shall be appropriately licensed by the State of Nevada, Secretary of State's Office pursuant to NRS 76. Information regarding the Nevada Business License can be located at <u>http://nvsos.gov</u>.

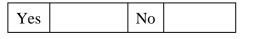
Question	Response
Nevada Business License Number:	
Legal Entity Name:	

Is "Legal Entity Name" the same name as vendor is doing business as?

Yes		No	
-----	--	----	--

If "No," provide explanation.

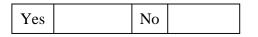
- 4.1.5 Vendors are cautioned that some services may contain licensing requirement(s). Vendors shall be proactive in verification of these requirements prior to proposal submittal. Proposals that do not contain the requisite licensure may be deemed non-responsive.
- 4.1.6 Has the vendor ever been engaged under contract by any State of Nevada agency?



If "Yes," complete the following table for each State agency for whom the work was performed. Table can be duplicated for each contract being identified.

Question	Response
Name of State agency:	
State agency contact name:	
Dates when services were performed:	
Type of duties performed:	
Total dollar value of the contract:	

4.1.7 Are you now or have you been within the last two (2) years an employee of the State of Nevada, or any of its agencies, departments, or divisions?



If "Yes", please explain when the employee is planning to render services, while on annual leave, compensatory time, or on their own time?

If you employ (a) any person who is a current employee of an agency of the State of Nevada, or (b) any person who has been an employee of an agency of the State of Nevada within the past two (2) years, and if such person shall be performing or producing the services which you shall be contracted to provide under this contract, you shall disclose the identity of each such person in your response to this RFP, and specify the services that each person shall be expected to perform.

4.1.8 Disclosure of any significant prior or ongoing contract failures, contract breaches, civil or criminal litigation in which the vendor has been alleged to be liable or held liable in a matter involving a contract with the State of Nevada or any other governmental entity. Any pending claim or litigation occurring within the past six (6) years which may adversely affect the vendor's ability to perform or fulfill its obligations if a contract is awarded as a result of this RFP shall also be disclosed.

Does any of the above apply to your company?

Yes	No	
-----	----	--

If "Yes", please provide the following information. Table can be duplicated for each issue being identified.

Question	on Response	
Date of alleged contract failure or breach:		
Parties involved:		
Description of the contract failure, contract breach, or litigation, including the products or services involved:		
Amount in controversy:		
Resolution or current status of the dispute:		
If the matter has resulted in a	Court	Case Number
court case:		
Status of the litigation:		

- 4.1.9 Vendors shall review and provide if awarded a contract the insurance requirements as specified in *Attachment D, Insurance Schedule for RFP ES-21-01.*
- 4.1.10 Company background/history and why vendor is qualified to provide the services described in this RFP. Limit response to no more than five (5) pages.
- 4.1.11 Provide a brief description of the length of time vendor has been providing services described in this RFP to the public and/or private sector.
- 4.1.12 Financial information and documentation to be included in accordance with *Section 9.5, Part III Confidential Financial Information.* 
  - 4.1.12.1 Dun and Bradstreet Number
  - 4.1.12.2 Federal Tax Identification Number
  - 4.1.12.3 The last two (2) years and current year interim:
    - A. Profit and Loss Statement
    - B. Balance Statement

#### 4.2 SUBCONTRACTOR INFORMATION

Subcontractors are defined as a third party, not directly employed by the contractor, who shall provide services identified in this RFP. This does not include third parties who provide support or incidental services to the contractor.

4.2.1 Does this proposal include the use of subcontractors?

Yes	No
-----	----

If "Yes", vendors shall:

- 4.2.1.1 Identify specific subcontractors and the specific requirements of this RFP for which each proposed subcontractor shall perform services.
- 4.2.1.2 If any tasks are to be completed by subcontractor(s), vendors shall:
  - A. Describe how the work of any subcontractor(s) shall be supervised, channels of communication shall be maintained and compliance with contract terms assured; and
  - B. Describe your previous experience with subcontractor(s).
- 4.2.1.3 Provide the same information for any proposed subcontractors as requested in *Section 4.1, Vendor Information*.
- 4.2.1.4 Business references as specified in *Section 4.3, Business References* shall be provided for any proposed subcontractors.
- 4.2.1.5 Vendor shall not allow any subcontractor to commence work until all insurance required of the subcontractor is provided to the vendor.
- 4.2.1.6 Vendor shall notify the using agency of the intended use of any subcontractors not identified within their original proposal and provide the information originally requested in the RFP in *Section 4.2, Subcontractor Information*. The vendor shall receive agency approval prior to subcontractor commencing work.

#### 4.3 **BUSINESS REFERENCES**

- 4.3.1 Vendors shall provide a minimum of three (3) business references from similar projects performed for private, and/or public sector clients within the last three (3) years.
- 4.3.2 Vendors shall submit *Attachment E, Reference Questionnaire* to their business references.
- 4.3.3 It is the vendor's responsibility to ensure that completed forms are received by CRCNV on or before the deadline as specified in *Section 8, RFP Timeline* for inclusion in the evaluation process. Reference Questionnaires not received, or not complete, may adversely affect the vendor's score in the evaluation process.
- 4.3.4 The State reserves the right to contact and verify any and all references listed regarding the quality and degree of satisfaction for such performance.

# 4.4 VENDOR STAFF RESUMES

A resume shall be completed for each proposed key personnel responsible for performance under any contract resulting from this RFP per *Attachment F, Proposed Staff Resume.* 

# COST

Vendors must provide detailed fixed prices for all costs associated with the responsibilities and related services. Clearly specify the nature of all expenses anticipated (refer to *Attachment I, Cost Schedule*).

Cost information *shall not* be included with the vendor's Technical Proposal, please refer to *Section 9*, *Proposal Submission Requirements, Format and Content*.

#### FINANCIAL

#### 6.1 **PAYMENT**

- 6.1.1 Upon review and acceptance by the State, payments for invoices are normally made within 30 45 days of receipt, providing all required information, documents and/or attachments have been received.
- 6.1.2 Pursuant to NRS 227.185 and NRS 333.450, the State shall pay claims for supplies, materials, equipment and services purchased under the provisions of this RFP electronically, unless determined by the State Controller that the electronic payment would cause the payee to suffer undue hardship or extreme inconvenience.

#### 6.2 BILLING

- 6.2.1 The State does not issue payment prior to receipt of goods or services.
- 6.2.2 The vendor shall bill the State as outlined in the approved contract and/or payment schedule.
- 6.2.3 The State presently has a Procurement Card Program that participating State agencies may use to pay for some of their purchases. The Program is issued through a major financial institution and is treated like any other major credit card. Using agencies may desire to use the card as a method of payment. No additional charges or fees shall be imposed for using the card. Please indicate in your proposal response if you will accept

#### 6.3 TIMELINESS OF BILLING

The State is on a fiscal year calendar. All billings for dates of service prior to July 1 shall be submitted to the State no later than the first Friday in August of the same year. A billing submitted after the first Friday in August that forces the State to process the billing as a stale claim pursuant to NRS 353.097, shall subject the contractor to an administrative fee not to exceed \$100.00. This is the estimate of the additional costs to the State for processing the billing as a stale claim and this amount shall be deducted from the stale claims payment due the contractor.

# WRITTEN QUESTIONS AND ANSWERS

The Purchasing Division, on behalf of CRCNV, shall accept questions and/or comments in writing regarding this RFP as noted below:

# 7.1 QUESTIONS AND ANSWERS

- 7.1.1 All questions regarding this RFP should be submitted using the Bid Q&A feature in NevadaEPro.
  - 7.1.1.1 To access the Bid Q&A:
  - 7.1.1.2 Log into your Seller account on NevadaEPro.
  - 7.1.1.3 Click the Bids Tab in the header.
  - 7.1.1.4 Click View under Bid Q&A on the appropriate Bid Solicitation under the Open Bids section.
- 7.1.2 The deadline for submitting questions is as specified in Section 7, RFP Timeline.
- 7.1.3 All questions and/or comments shall be addressed using the Bid Q&A in NevadaEPro. If questions and answers require a material change to the Bid Solicitation, an Amendment will be posted in NevadaEPro and you will receive email notification.
- 7.1.4 The deadline for submitting questions is as specified in *Section 8, RFP Timeline*.

# **RFP TIMELINE**

The following represents the proposed timeline for this project. All times stated are Pacific Time (PT). These dates represent a tentative schedule of events. The State reserves the right to modify these dates at any time. The State also reserves the right to forego vendor presentations and select vendor(s) based on the written proposals submitted.

Task	Date/Time
Deadline for submitting set of questions	03/29/2021 @ 2:00 PM
Answers posted to website	On or about 04/05/2021
Deadline for submittal of Reference Questionnaires	No later than 4:30 PM on 04/12/2021
Deadline for submission and opening of proposals	No later than 2:00 PM on 04/26/2021
Evaluation period (approximate time frame)	05/03/2021-05/07/2021
Selection of vendor	On or about 05/10/2021
Anticipated Commission Approval	On or about 06/08/2021
Anticipated BOE approval	08/10/2021
Contract start date (contingent upon BOE approval)	09/01/2021

#### PROPOSAL SUBMISSION REQUIREMENTS, FORMAT AND CONTENT

#### 9.1 GENERAL SUBMISSION REQUIREMENTS

- 9.1.1 Vendors shall submit their proposals by using Create Quote through the State electronic procurement website, https://NevadaEPro.com, in accordance with the instructions below.
- 9.1.2
- 9.1.2.1 Refer to Instructions for Vendors Responding to a Bid in the Important Links section on the front page of NevadaEPro for instructions on how to submit a Quote using NevadaEPro
- 9.1.3 The Quote/Proposal shall contain a maximum of four (4) attachments which may include:
  - 9.1.3.1 Technical Proposal
  - 9.1.3.2 Confidential Technical (if applicable)
  - 9.1.3.3 Cost Proposal
  - 9.1.3.4 Confidential Financial (if applicable)
- 9.1.4 Proposals shall have a technical response, which may be composed of two (2) parts in the event a vendor determines that a portion of their technical proposal qualifies as "confidential" per NRS 333.020(5)(b).
- 9.1.5 If complete responses cannot be provided without referencing confidential information, such confidential information shall be provided in accordance with *Section 9.3, Part IB Confidential Technical Proposal and Section 9.5, Part III Confidential Financial Information.*
- 9.1.6 Specific references made to the section, page, and/or paragraph where the confidential information can be located shall be identified on *Attachment A*, *Confidentiality and Certification of Indemnification* and comply with the requirements stated in *Section 9.6, Confidentiality of Proposals.*
- 9.1.7 Proposals that do not comply with the requirements may be deemed non-responsive and rejected at the State's discretion.
- 9.1.8 Each section within the technical proposal and cost proposal shall be separated by clearly marked sections with the appropriate section number and title as specified.
- 9.1.9 Although it is a public opening, only the names of the vendors submitting proposals shall be announced per NRS 333.335(6). Technical and cost details about proposals submitted shall not be disclosed.
- 9.1.10 Assistance for persons who are disabled, visually impaired or hearing-impaired who wish to attend the RFP opening is available. If special arrangements are necessary, please notify the CRCNV designee as soon as possible and at least two (2) days in advance of the opening.
- 9.1.11 If discrepancies are found between two (2) or more copies of the proposal, the master copy shall provide the basis for resolving such discrepancies. If one (1)

copy of the proposal is not clearly marked "MASTER," the State may reject the proposal. However, the State may at its sole option, select one (1) copy to be used as the master.

- 9.1.12 For ease of evaluation, the technical and cost proposals shall be presented in a format that corresponds to and references sections outlined within this RFP and shall be presented in the same order. Written responses shall be in *bold/italics* and placed immediately following the applicable RFP question, statement and/or section.
- 9.1.13 Proposals are to be prepared in such a way as to provide a straightforward, concise delineation of capabilities to satisfy the requirements of this RFP. Expensive bindings, color displays, promotional materials, etc., are not necessary or desired. Emphasis shall be concentrated on conformance to the RFP instructions, responsiveness to the RFP requirements, and on completeness and clarity of content.
- 9.1.14 For purposes of addressing questions concerning this RFP, the sole point of contact shall be the contact as specified on Page 1 of this RFP. Upon issuance of this RFP, other employees and representatives of the agencies identified in the RFP shall not answer questions or otherwise discuss the contents of this RFP with any prospective vendors or their representatives. Failure to observe this restriction may result in disqualification of any subsequent proposal per NAC 333.155(3). This restriction does not preclude discussions between affected parties for the purpose of conducting business unrelated to this procurement.
- 9.1.15 Any vendor who believes there are irregularities or lack of clarify in the RFP or proposal requirements or specifications are unnecessarily restrictive, or limit competition shall notify the sole point of contact as specified on Page 1 of the RFP, in writing, as soon as possible so that corrective addenda may be furnished by the agency in a timely manner to all vendors.
- 9.1.16 If a vendor changes any material RFP language, vendor's response may be deemed non-responsive per NRS 333.311.
- 9.1.17 The vendor understands and acknowledges that the representations made in its proposal are material and important and shall be relied on by the State in its evaluation of a proposal. Any misrepresentation by a vendor shall be treated as fraudulent concealment from the State of the true facts relating to the proposal.

#### 9.2 PART IA – TECHNICAL PROPOSAL

- 9.2.1 The technical proposal shall include:
  - 9.2.1.1 One (1) PDF marked as instructed in 9.2.3.1
- 9.2.2 The Technical Proposal *shall not include* confidential or cost and/or pricing information. Cost and/or pricing information contained in the technical proposal may cause the proposal to be rejected.
- 9.2.3 Format and Content

		Part IA – Technical Proposal				
	RFP Title:		Engineering Services			
		P #:	21-01			
		endor Name:				
		ldress:				
	Pro	oposal Opening Date:	04/26/2021			
		oposal Opening Time:	2:00pm			
9.2.3.2	Secti	Section II – Table of Contents				
	An a	An accurate and updated table of contents shall be provided.				
9.2.3.3	Section III – Vendor Information Sheet					
	The vendor information sheet shall be completed and signed by individual authorized to bind the organization					
9.2.3.4	Secti	Section IV – State Documents				
	The State documents section shall include the following:					
	А.	The signature page from all amendments signed by an individual authorized to bind the organization.				
	B.	<ul> <li>Attachment A – Confidentiality and Certification of Indemnification signed by an individual authorized to bind the organization.</li> <li>Attachment B – Vendor Certifications signed by an individual authorized to bind the organization.</li> </ul>				
	C.					
	D.	Attachment H – Certification Regarding Lobbying signed by an individual authorized to bind the organization.				
	E.	Copies of any vendor software maintenance	licensing agreements and/or hardware and agreements.			
	F.	Copies of applicable	certifications and/or licenses.			
9.2.3.5 Section V – Scope of Work						
	Vendors shall place their written response(s) to <i>Section 3, S</i> <i>Work</i> in <i>bold/italics</i> immediately following the applicate question, statement and/or section.					

9.2.3.1 Section I – Title Page with the following information:

9.2.3.6 Section VI – Company Background and References

- A. Vendors shall place their written response(s) to *Section 4, Company Background and References* in *bold/italics* immediately following the applicable RFP question, statement and/or section.
- B. This section shall also include the requested information in *Section 4.2, Subcontractor Information*, if applicable.
- 9.2.3.7 Section VII Attachment F Proposed Staff Resumes(s)
  - A. Vendors shall include all proposed staff resumes per Section
     4.4, Vendor Staff Resumes in this section.
  - B. This section shall also include any subcontractor proposed staff resumes, if applicable.
- 9.2.3.8 Tax VIII Other Informational Material

Vendors shall include any other applicable reference material in this section clearly cross referenced with the proposal.

# 9.3 PART IB – CONFIDENTIAL TECHNICAL PROPOSAL

- 9.3.1 Vendors only need to submit Part IB if the proposal includes any confidential technical information (*Refer to Attachment A, Confidentially and Certification of Indemnification*).
- 9.3.2 If needed, vendors shall provide one (1) PDF Confidential Technical Proposal file that includes the following:
  - 9.3.2.1 Section I Title Page with the following information:

Part IB – Confidential Technical Proposal				
RFP Title:	Engineering Services			
RFP #:	ES-21-01			
Vendor Name:				
Address:				
Proposal Opening Date:	04/26/2021			
Proposal Opening Time:	2:00 pm			

9.3.2.2 Section II – Confidential Technical

Vendors shall cross reference the confidential technical information back to the technical proposal, as applicable.

#### 9.4 PART II – COST PROPOSAL

9.4.1 The cost proposal shall include:

9.4.1.1 One (1) PDF as instructed in 9.4.3.1

- 9.4.2 The Cost Proposal *shall not* be marked "confidential". Only information that is deemed proprietary per NRS 333.020(5)(a) may be marked as "confidential".
- 9.4.3 Format and Content
  - 9.4.3.1 Section I Title Page with the following information:

Part II – Cost Proposal				
RFP Title:	Engineering Services			
RFP #:	21-01			
Vendor Name:				
Address:				
Proposal Opening Date:	04/26/2021			
Proposal Opening Time:	2:00 pm			

#### 9.4.3.2 Section II – Cost Proposal

Vendor's response for the cost proposal shall be included in this section.

#### 9.5 PART III – CONFIDENTIAL FINANCIAL INFORMATION

- 9.5.1 Vendors only need to submit Part III if the proposal includes any confidential financial information (*refer to Attachment A, Confidentiality and Certification of Indemnification*).
- 9.5.2 If needed, vendors shall provide one (1) PDF Confidential Financial Information file that includes the following:
  - 9.5.2.1 Section I Title Page with the following information:

Part III – Confidential Financial Information				
RFP Title:	Engineering Services			
RFP #:	21-01			
Vendor Name:				
Address:				
Proposal Opening Date:	04/26/2021			
Proposal Opening Time:	2:00 pm			

9.5.2.2 Section II - Financial Information and Documentation

Vendors shall place the information requested in *Section 4.1.12* in this section.

#### 9.6 CONFIDENTIALITY OF PROPOSALS

9.6.1 As a potential contractor of a public entity, vendors are advised that full disclosure is required by law.

- 9.6.2 Vendors are required to submit written documentation in accordance with *Attachment A, Confidentiality and Certification of Indemnification* demonstrating the material within the proposal marked "confidential" conforms to NRS 333.333, which states "Only specific parts of the proposal may be labeled a "trade secret" as defined in NRS 600A.030(5)". Not conforming to these requirements shall cause your proposal to be deemed non-compliant and shall not be accepted by the State of Nevada.
- 9.6.3 Vendors acknowledge that material not marked as "confidential" shall become public record upon contract award.
- 9.6.4 It is the vendor's responsibility to act in protection of the labeled information and agree to defend and indemnify the State of Nevada for honoring such designation.
- 9.6.5 Failure to label any information that is released by the State shall constitute a complete waiver of any and all claims for damage caused by release of said information.

# 9.7 PROPOSAL PACKAGING

- 9.7.1 Vendors shall submit their proposals through the State electronic procurement website, https://NevadaEPro.com, in accordance with the instructions below.
- 9.7.2 Proposals shall be received via https://NevadaEPro.com no later than the date and time specified on the General Tab of the Bid Solicitation in NevadaEPro. Proposals that are not submitted by bid opening time and date shall not be accepted. Vendors may submit their proposal any time prior to the deadline stated in NevadaEPro. In the event that dates, and times specified in this document and dates times specified in NevadaEPro conflict, the dates and time in NevadaEPro shall take precedence.
- 9.7.3 Proposals submitted as physical copies, email, or any submission method other than via NevadaEPro shall not be considered.
- 9.7.4 Proposals shall be received at the address referenced above no later than the date and time specified in *Section 8, RFP Timeline*. Proposals that do not arrive by proposal opening time and date shall not be accepted. Vendors may submit their proposal any time prior to the above stated deadline.
- 9.7.5 The State shall not be held responsible for proposal envelopes mishandled as a result of the envelope not being properly prepared.
- 9.7.6 Email or facsimile proposals shall not be considered.

# PROPOSAL EVALUATION AND AWARD PROCESS

The information in this section does not need to be returned with the vendor's proposal.

10.1 Proposals shall be consistently evaluated and scored in accordance with NRS 333.335(3) based upon the following criteria. The following criteria are listed in order of importance.

	Criteria Description	Weight
	Demonstrated competence	25%
	Experience in performance of comparable engagements	25%
	Conformance with the terms of this RFP	15%
	Expertise and availability of key personnel	25%
Cost	Cost proposals shall be evaluated based on the following formula: <u>Lowest Cost Submitted by a Vendor</u> = Price Factor Proposers Total Cost Price Factor X Weight = Cost Criteria Score	10%

#### 10.1.1 Presentations

- 10.1.1.1 Following the evaluation and scoring process specified above, the State may require vendors to make a presentation of their proposal to the evaluation committee or other State staff, as applicable.
- 10.1.1.2 The State, at its option, may limit participation in vendor presentations to those vendors receiving at least 75% of the total combined available points for technical and cost proposals.
- 10.1.1.3 The State reserves the right to forego vendor presentations and select vendor(s) based on the written proposals submitted.
- 10.2 Effective July 1, 2017, a five percent (5%) preference will be awarded to businesses based in Nevada. A Nevada business is defined as a business which certifies either that its 'principal place of business' is in Nevada, as identified in *Section 4.1, Vendor Information*, or that a 'majority of goods provided for the contract are produced' in Nevada. The preference will be applied to the total score.
- 10.3 Financial stability shall be scored on a pass/fail basis.
- 10.4 Proposals shall be kept confidential until a contract is awarded.
- 10.5 The evaluation committee is an independent committee comprised of a majority of State officers or employees established to evaluate and score proposals submitted in response to the RFP pursuant to NRS 333.335.

- 10.6 The evaluation committee may solicit information from any available source concerning any aspect of a proposal and seek and review any other information deemed pertinent to the evaluation process.
- 10.7 Each vendor shall include in its proposal a complete disclosure of any alleged significant prior or ongoing contract failures, contract breaches, any civil or criminal litigation or investigations pending which involves the vendor or in which the vendor has been judged guilty or liable. Failure to comply with the terms of this provision may disqualify any proposal. The State reserves the right to reject any proposal based upon the vendor's prior history with the State or with any other party, which documents, without limitation, unsatisfactory performance, adversarial or contentious demeanor, significant failure(s) to meet contract milestones or other contractual failures. Refer generally to NRS 333.335.
- 10.8 Clarification discussions may, at the State's sole option, be conducted with vendors who submit proposals determined to be acceptable and competitive per NAC 333.165. Vendors shall be accorded fair and equal treatment with respect to any opportunity for discussion and/or written revisions of proposals. Such revisions may be permitted after submissions and prior to award for the purpose of obtaining best and final offers. In conducting discussions, there shall be no disclosure of any information derived from proposals submitted by competing vendors.
- 10.9 A Letter of Intent (LOI) shall be issued in accordance with NAC 333.170 notifying vendors of the State's intent to award a contract to a vendor, pending successful negotiations. Negotiations shall be confidential and not subject to disclosure to competing vendors unless and until an agreement is reached. All information remains confidential until the issuance of the formal. Notice of Award (NOA). If contract negotiations cannot be concluded successfully, the State upon written notice to all vendors may negotiate a contract with the next highest scoring vendor or withdraw the RFP.
- 10.10 A Notification of Award (NOA) shall be issued in accordance with NAC 333.170. Vendors shall be notified that a contract has been successfully negotiated, executed and is awaiting approval of the Board of Examiners (BOE). Any award is contingent upon the successful negotiation of final contract terms and upon approval of the BOE, when required. Any non-confidential information becomes available upon written request.
- 10.11 Pursuant to NRS 333.700, any contract resulting from this RFP shall not be effective unless and until approved by the Nevada State Board of Examiners.

# **TERMS AND CONDITIONS**

# 11.1 PROCUREMENT AND PROPOSAL TERMS AND CONDITIONS

The information in this section does not need to be returned with the vendor's proposal.

- 11.1.1 This procurement is being conducted in accordance with NRS Chapter 333 and NAC Chapter 333.
- 11.1.2 The State reserves the right to alter, amend, or modify any provisions of this RFP, or to withdraw this RFP, at any time prior to the award of a contract pursuant hereto, if it is in the best interest of the State to do so.

- 11.1.3 The State reserves the right to waive informalities and minor irregularities in proposals received.
- 11.1.4 The failure to separately package and clearly mark *Part IB and Part III* which contain confidential information, trade secrets and/or proprietary information, shall constitute a complete waiver of any and all claims for damages caused by release of the information by the State.
- 11.1.5 Pursuant to NRS 333.350, the State reserves the right to reject any or all proposals received prior to contract award.
- 11.1.6 Pursuant to NRS 333.350, the State reserves the right to limit the scope of work prior to award, if deemed in the best interest of the State.
- 11.1.7 Pursuant to NRS 333.335, the State shall not be obligated to accept the lowest priced proposal, however, shall make an award in the best interest of the State of Nevada after all factors have been evaluated.
- 11.1.8 Any irregularities or lack of clarity in the RFP shall be brought to the attention of Agency designee's as soon as possible so that corrective addenda may be furnished to prospective vendors.
- 11.1.9 Proposals which appear unrealistic in the terms of technical commitments, lack of technical competence, or are indicative of failure to comprehend the complexity and risk of the project/contract, may be rejected.
- 11.1.10 Proposals from employees of the State of Nevada shall be considered in as much as they do not conflict with the State Administrative Manual (SAM), NRS Chapter 281 and NRS Chapter 284.
- 11.1.11 Proposals may be modified or withdrawn by written notice received prior to the proposal opening time. Withdrawals received after the proposal opening time shall not be considered except as authorized by NRS 333.350(3).
- 11.1.12 Prices offered by vendors in their proposals are an irrevocable offer for the term of the contract and any contract extensions. The awarded vendor agrees to provide the purchased services at the costs, rates and fees as set forth in their proposal in response to this RFP. No other costs, rates or fees shall be payable to the awarded vendor for implementation of their proposal.
- 11.1.13 The State is not liable for any costs incurred by vendors prior to entering into a formal contract. Costs of developing the proposals or any other such expenses incurred by the vendor in responding to the RFP, are entirely the responsibility of the vendor, and shall not be reimbursed in any manner by the State.
- 11.1.14 Proposals submitted per proposal submission requirements become the property of the State, selection or rejection does not affect this right; proposals shall be returned only at the State's option and at the vendor's request and expense. The masters of the technical proposal, confidential technical proposal, cost proposal and confidential financial information of each response shall be retained for official files.

- 11.1.15 Any unsuccessful vendor may file an appeal in strict compliance with NRS 333.370 and NAP Chapter 333.
- 11.1.16 NRS 333.290 grants a preference to materials and supplies that can be supplied from a "charitable, reformatory or penal institution of the State" that produces such goods or services through the labor of inmates. The Administrator reserves the right to secure these goods, materials or supplies from any such eligible institution, if they can be secured of equal quality and at prices not higher than those of the lowest acceptable bid received in response to this solicitation. In addition, NRS 333.410 grants a preference to commodities or services that institutions of the State are prepared to supply through the labor of inmates. The Administrator shall apply the preferences stated in NRS 333.290 and 333.410 to the extent applicable.
- 11.1.17 Pursuant to NRS 333.338, the State of Nevada cannot enter into a contract with a company unless that company agrees for the duration of the contract not to engage in a boycott of Israel. By submitting a proposal or bid, vendor agrees that if it is awarded a contract it will not engage in a boycott of Israel as defined in NRS 333.338(3)(a).

## **CONTRACT TERMS AND CONDITIONS**

The information in this section does not need to be returned with the vendor's proposal.

- 11.1.1 The awarded vendor shall be the sole point of contract responsibility. The State shall look solely to the awarded vendor for the performance of all contractual obligations which may result from an award based on this RFP, and the awarded vendor shall not be relieved for the non-performance of any or all subcontractors.
- 11.1.2 The awarded vendor shall maintain, for the duration of its contract, insurance coverages as set forth in the fully executed contract. Work on the contract shall not begin until after the awarded vendor has submitted acceptable evidence of the required insurance coverages. Failure to maintain any required insurance coverage or acceptable alternative method of insurance shall be deemed a breach of contract.
- 11.1.3 The State shall not be liable for Federal, State, or Local excise taxes per NRS 372.325.
- 11.1.4 The State reserves the right to negotiate final contract terms with any vendor selected per NAC 333.170. The contract between the parties shall consist of the RFP together with any modifications thereto, and the awarded vendor's proposal, together with any modifications and clarifications thereto that are submitted at the request of the State during the evaluation and negotiation process. In the event of any conflict or contradiction between or among these documents, the documents shall control in the following order of precedence: the final executed contract, any modifications and clarifications to the awarded vendor's proposal, the RFP, and the awarded vendor's proposal. Specific exceptions to this general rule may be noted in the final executed contract. The State shall not indemnify

vendor from any liability or damages, including but not limited to attorney's fees and costs, arising under any contract resulting from this RFP.

- 11.1.5 State agencies and local governments (as defined in NRS 332.015) are intended third party beneficiaries of any contract resulting from this RFP and may join or use any contract resulting from this RFP subject to Nevada law. The State is not liable for the obligations of any local government which joins or uses any contract resulting from this RFP.
- 11.1.6 Any person who requests or receives a Federal contract, grant, loan or cooperative agreement shall file with the using agency a certification that the person making the declaration has not made, and shall not make, any payment prohibited by subsection (a) of 31 U.S.C. 1352.
- 11.1.7 Pursuant to NRS Chapter 613 in connection with the performance of work under this contract, the contractor agrees not to unlawfully discriminate against any employee or applicant for employment because of race, creed, color, national origin, sex, sexual orientation or age, including, without limitation, with regard to employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including, without limitation apprenticeship.

The contractor further agrees to insert this provision in all subcontracts, hereunder, except subcontracts for standard commercial supplies or raw materials.

### PROJECT TERMS AND CONDITIONS

The information in this section does not need to be returned with the vendor's proposal.

- 11.1.8 Award of Related Contracts
  - 11.1.8.1 The State may undertake or award supplemental contracts for work related to this project or any portion thereof. The contractor shall be bound to cooperate fully with such other contractors and the State in all cases.
  - 11.1.8.2 All subcontractors shall be required to abide by this provision as a condition of the contract between the subcontractor and the prime contractor.
- 11.1.9 Products and/or Alternatives
  - 11.1.9.1 The vendor shall not propose an alternative that would require the State to acquire hardware or software or change processes in order to function properly on the vendor's system unless vendor included a clear description of such proposed alternatives and clearly mark any descriptive material to show the proposed alternative.
  - 11.1.9.2 An acceptable alternative is one the State considers satisfactory in meeting the requirements of this RFP.

11.1.9.3 The State, at its sole discretion, shall determine if the proposed alternative meets the intent of the original RFP requirement.

#### 11.1.10 State Owned Property

The awarded vendor shall be responsible for the proper custody and care of any State owned property furnished by the State for use in connection with the performance of the contract and shall reimburse the State for any loss or damage.

- 11.1.11 Inspection/Acceptance of Work
  - 11.1.11.1 It is expressly understood and agreed all work done by the contractor shall be subject to inspection and acceptance by the State.
  - 11.1.11.2 Any progress inspections and approval by the State of any item of work shall not forfeit the right of the State to require the correction of any faulty workmanship or material at any time during the course of the work and warranty period thereafter, although previously approved by oversight.
  - 11.1.11.3 Nothing contained herein shall relieve the contractor of the responsibility for proper installation and maintenance of the work, materials and equipment required under the terms of the contract until all work has been completed and accepted by the State.

#### 11.1.12 Travel

If travel is required, the following processes shall be followed:

- 11.1.12.1 All travel shall be approved in writing in advance by the Department.
- 11.1.12.2 Requests for reimbursement of travel expenses shall be submitted on the State Claim for Travel Expense Form with original receipts for all expenses.
- 11.1.12.3 The travel expense form, with original signatures, shall be submitted with the vendor's invoice.
- 11.1.12.4 Vendor shall be reimbursed travel expenses and per diem at the rates allowed for State employees at the time travel occurs.
- 11.1.12.5 The State is not responsible for payment of any premium, deductible or assessments on insurance policies purchased by vendor for a rental vehicle.
- 11.1.13 Completion of Work

Prior to completion of all work, the contractor shall remove from the premises all equipment and materials belonging to the contractor. Upon completion of the work, the contractor shall leave the site in a clean and neat condition satisfactory to the State.

- 11.1.14 Right to Publish
  - 11.1.14.1 All requests for the publication or release of any information pertaining to this RFP and any subsequent contract shall be in writing and sent to the Agency Head or designee.
  - 11.1.14.2 No announcement concerning the award of a contract as a result of this RFP can be made without prior written approval of the Agency Head or designee.
  - 11.1.14.3 As a result of the selection of the contractor to supply the requested services, the State is neither endorsing nor suggesting the contractor is the best or only solution.
  - 11.1.14.4 The contractor shall not use, in its external advertising, marketing programs, or other promotional efforts, any data, pictures or other representation of any State facility, except with the specific advance written authorization of the Agency Head or designee.
  - 11.1.14.5 Throughout the term of the contract, the contractor shall secure the written approval of the State per *Section 11.3.7.2* prior to the release of any information pertaining to work or activities covered by the contract.
- 11.1.15 Protection of Sensitive Information
  - 11.1.15.1 Sensitive information in existing legacy applications shall encrypt data as is practical.
  - 11.1.15.2 Confidential personal data shall be encrypted.
  - 11.1.15.3 Any electronic transmission of personal information shall comply with NRS 603A.215 (2 & 3).
  - 11.1.15.4 Sensitive Data shall be encrypted in all newly developed applications.

#### SUBMISSION CHECKLIST

This checklist is provided for vendor's convenience only and identifies documents that shall be submitted in order to be considered responsive. Any proposals received without these requisite documents may be deemed non-responsive and not considered for contract award.

	Part IA – Technical Proposal Submission Requirements	Completed
Part IA submit	ted in one (1) separate PDF file	
Section I	Title Page	
Section II	Table of Contents	
Section III	Vendor Information Sheet	
Section IV	State Documents	
Section V	Scope of Work	
Section VI	Company Background and References	
Section VII	Attachment F – Proposed Staff Resume(s)	
Section VIII	Other Informational Material	
	Part IB – Confidential Technical Proposal Submission Requirements	
Part IB submit	ted in one (1) separate PDF file	
Section I	Title Page	
Section II	Appropriate sections and information that cross references back to the technical proposal	
	Part II – Cost Proposal Submission Requirements	
Part II submitt	ed in one (1) separate PDF file	
Section I	Title Page	
Section II	Cost Proposal	
	Part III – Confidential Financial Information Submission Requirements	
Part III submit	ted in one (1) separate PDF file	
Section I	Title Page	
Section II	Financial Information and Documentation	
	CD or Flash Drive Required	
One (1)	Master CD or Flash Drive with the technical and cost proposal contents only	
One (1)	Public Records CD or Flash Drive with the technical and cost proposal public record contents only	
	Reference Questionnaire Reminders	
Send out Refe	rence Forms for Vendor (with Part A completed)	
Send out Refe	rence Forms for proposed Subcontractors (with Part A and Part B completed, if applicable)	

#### ATTACHMENT A - CONFIDENTIALITY AND CERTIFICATION OF INDEMNIFICATION

Submitted proposals, which are marked "confidential" in their entirety, or those in which a significant portion of the submitted proposal is marked "confidential" **<u>shall not</u>** be accepted by the State of Nevada. Pursuant to NRS 333.333, only specific parts of the proposal may be labeled a "trade secret" as defined in NRS 600A.030(5). All proposals are confidential until the contract is awarded; at which time, both successful and unsuccessful vendors' technical and cost proposals become public information.

In accordance with the Submittal Instructions of this RFP, vendors are requested to submit confidential information in a separate binder/file marked "Part IB – Confidential Technical" and "Part III - Confidential Financial Information".

The State shall not be responsible for any information contained within the proposal. If vendors do not comply with the labeling and packaging requirements, proposals shall be released as submitted. In the event a governing board acts as the final authority, there may be public discussion regarding the submitted proposals that shall be in an open meeting format, the <u>proposals shall</u> remain confidential.

By signing below, I understand it is my responsibility as the vendor to act in protection of the labeled information and agree to defend and indemnify the State of Nevada for honoring such designation. I duly realize failure to so act shall constitute a complete waiver, and all submitted information shall become public information; additionally, failure to label any information that is released by the State shall constitute a complete waiver of any and all claims for damages caused by the release of the information.

This proposal contains Confidential Information, Trade Secrets and/or Proprietary information.

#### Please initial the appropriate response in the boxes below and provide the justification for confidential status.

Part IB – Confidential Technical Information						
YES	YES NO					
Justification for Confidential Status						

Part III – Confidential Financial Information				
YES		NO		
Justification for Confidential Status				

A Public Records CD or Flash Drive has been included for the Technical and Cost Proposal				
YES		NO		

Company Name

Signature

Print Name

Date

This document shall be submitted in Section IV of vendor's technical proposal

# ATTACHMENT B – VENDOR CERTIFICATIONS

Vendor agrees and shall comply with the following:

- (1) Any and all prices that may be charged under the terms of the contract do not and shall not violate any existing federal, State or municipal laws or regulations concerning discrimination and/or price fixing. The vendor agrees to indemnify, exonerate and hold the State harmless from liability for any such violation now and throughout the term of the contract.
- (2) All proposed capabilities can be demonstrated by the vendor.
- (3) The price(s) and amount of this proposal have been arrived at independently and without consultation, communication, agreement or disclosure with or to any other contractor, vendor or potential vendor.
- (4) All proposal terms, including prices, shall remain in effect for a minimum of 180 days after the proposal due date. In the case of the awarded vendor, all proposal terms, including prices, shall remain in effect throughout the contract negotiation process.
- (5) No attempt has been made at any time to induce any firm or person to refrain from proposing or to submit a proposal higher than this proposal, or to submit any intentionally high or noncompetitive proposal. All proposals shall be made in good faith and without collusion.
- (6) All conditions and provisions of this RFP are deemed to be accepted by the vendor and incorporated by reference in the proposal, except such conditions and provisions that the vendor expressly excludes in the proposal. Any exclusion shall be in writing and included in the proposal at the time of submission.
- (7) Each vendor shall disclose any existing or potential conflict of interest relative to the performance of the contractual services resulting from this RFP. Any such relationship that might be perceived or represented as a conflict shall be disclosed. By submitting a proposal in response to this RFP, vendors affirm that they have not given, nor intend to give at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant or any employee or representative of same, in connection with this procurement. Any attempt to intentionally or unintentionally conceal or obfuscate a conflict of interest shall automatically result in the disqualification of a vendor's proposal. An award shall not be made where a conflict of interest exists. The State shall determine whether a conflict of interest exists and whether it may reflect negatively on the State's selection of a vendor. The State reserves the right to disqualify any vendor on the grounds of actual or apparent conflict of interest.
- (8) All employees assigned to the project are authorized to work in this country.
- (9) The company has a written equal opportunity policy that does not discriminate in employment practices with regard to race, color, national origin, physical condition, creed, religion, age, sex, marital status, sexual orientation, developmental disability or disability of another nature.
- (10) The company has a written policy regarding compliance for maintaining a drug-free workplace.
- (11) Vendor understands and acknowledges that the representations within their proposal are material and important and shall be relied on by the State in evaluation of the proposal. Any vendor misrepresentations shall be treated as fraudulent concealment from the State of the true facts relating to the proposal.
- (12) Vendor shall certify that any and all subcontractors comply with Sections 7, 8, 9, and 10, above.
- (13) The proposal shall be signed by the individual(s) legally authorized to bind the vendor per NRS 333.337.

Vendor Company Name

Vendor Signature

Print Name

Date

This document shall be submitted in Section IV of vendor's technical proposal

# ATTACHMENT C – CONTRACT FORM

Vendors shall review the terms and conditions of the standard contract used by the State for all services of independent contractors. It is not necessary for vendors to complete the contract form with their proposal.

Attachment C – Contract Form may be accessed and downloaded from the attachments tab in NevadEpro.com or by accessing the solicitation from the "Open Bids" selection on NevadaEPro.com prior to signing into an account.

Attachment C - State Solicitation #69CRC-S1506

# ATTACHMENT D – INSURANCE SCHEDULE FOR RFP ES-21-01

Vendors shall review the Insurance Schedule, as this shall be the schedule used for the Scope of Work identified within the RFP.



# ATTACHMENT E – REFERENCE QUESTIONNAIRE

The State of Nevada requires proposing vendors to submit business references. The purpose of these references is to document the experience relevant to the Scope of Work identified within the RFP and aid in the evaluation process.

	INSTRUCTIONS TO PROPOSING VENDOR						
1.	Proposing vendor or vendor's proposed subcontractor shall complete Part A of the Reference Questionnaire.						
2.	Proposing vendor shall send the following Reference Questionnaire to each business reference listed for completion of Part C and Part D.						
3.	Business reference is requested to submit the completed Reference Questionnaire via email or facsimile to:						
	State of Nevada, Colorado River Commission of Nevada						
	Subject: RFP ES-21-01						
	Attention: Robert D. Reese						
	Email: breese@crc.nv.gov						
	Fax: 702-486-2695						
	Please reference the RFP number in the subject line of the email or on the fax.						
4.	The completed Reference Questionnaire shall be received <i>no later than 4:30 PM PT on <u>04/12/2021</u></i>						
5.	Business references are <b>not</b> to return the Reference Questionnaire to the Proposer (Vendor).						
6.	In addition to the Reference Questionnaire, the State may contact any and all business references by phone for further clarification, if necessary.						
7.	Questions regarding the Reference Questionnaire or process shall be directed to the individual identified on the RFP cover page.						
8.	Reference Questionnaires not received, or not complete, may adversely affect the vendor's score in the evaluation process.						

Attachment E – Reference Questionnaire may be accessed and downloaded from the attachments tab in NevadEpro.com or by accessing the solicitation from the "Open Bids" selection on NevadaEPro.com prior to signing into an account.

# ATTACHMENT F – PROPOSED STAFF RESUME

Attachment F – Proposed Staff Resume may be accessed and downloaded from the attachments tab in NevadEpro.com or by accessing the solicitation from the "Open Bids" selection on NevadaEPro.com prior to signing into an account.

# ATTACHMENT G – COST SCHEDULE

Attachment G – Cost Schedule may be accessed and downloaded from the attachments tab in NevadEpro.com or by accessing the solicitation from the "Open Bids" selection on NevadaEPro.com prior to signing into an account.

#### ATTACHMENT C – CONTRACT FORM

#### **CONTRACT FOR SERVICES OF INDEPENDENT CONTRACTOR**

#### A Contract Between the State of Nevada Acting by and Through its

Agency Name:	Colorado River Commission of Nevada
Address:	555 E. Washington Avenue, Suite 3100
City, State, Zip Code:	Las Vegas, NV 89101
Contact:	Robert Reese
Phone:	702-682-6972
Fax:	702-856-3617
Email:	breese@crc.nv.gov

Contractor Name:	
Address:	
City, State, Zip Code:	
Contact:	
Phone:	
Fax:	
Email:	

WHEREAS, NRS 333.700 authorizes officers, departments, institutions, boards, commissions, and other agencies in the Executive Department of the State Government which derive their support from public money in whole or in part to engage, subject to the approval of the Board of Examiners (BOE), services of persons as independent contractors; and

WHEREAS, it is deemed that the service of Contractor is both necessary and in the best interests of the State of Nevada.

NOW, THEREFORE, in consideration of the aforesaid premises, the parties mutually agree as follows:

1. **REQUIRED APPROVAL**. This Contract shall not become effective until and unless approved by the Nevada State Board of Examiners.

#### 2. **DEFINITIONS**.

- A. "State" means the State of Nevada and any State agency identified herein, its officers, employees and immune contractors as defined in NRS 41.0307.
- B. "Contracting Agency" means the State agency identified above.
- C. "Contractor" means the person or entity identified above that performs services and/or provides goods for the State under the terms and conditions set forth in this Contract.
- D. "Fiscal Year" means the period beginning July 1st and ending June 30th of the following year.
- E. "Contract" Unless the context otherwise requires, "Contract" means this document entitled Contract for Services of Independent Contractor and all Attachments or Incorporated Documents.
- F. "Contract for Independent Contractor" means this document entitled Contract for Services of Independent Contractor exclusive of any Attachments or Incorporated Documents.

3. **CONTRACT TERM.** This Contract shall be effective as noted below, unless sooner terminated by either party as specified in *Section 10, Contract Termination*. Contract is subject to Board of Examiners' approval.

Effective from:	09/01/2021	To:	09/01/2025
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- 4. **NOTICE.** All communications, including notices, required or permitted to be given under this Contract shall be in writing and directed to the parties at the addresses stated above. Notices may be given: (i) by delivery in person; (ii) by a nationally recognized next day courier service, return receipt requested; or (iii) by certified mail, return receipt requested. If specifically requested by the party to be notified, valid notice may be given by facsimile transmission or electronic mail to the address(es) such party has specified in writing.
- 5. **INCORPORATED DOCUMENTS**. The parties agree that this Contract, inclusive of the following attachments, specifically describes the scope of work. This Contract incorporates the following attachments in descending order of constructive precedence:

ATTACHMENT A:	SCOPE OF WORK, DELIVERABLES, PAYMENT SCHEDULE, and NEGOTIATED POINTS (if needed)
ATTACHMENT B:	INSURANCE SCHEDULE
ATTACHMENT C:	STATE SOLICITATION # and AMENDMENTS #
ATTACHMENT D:	VENDOR PROPOSAL

Any provision, term or condition of an Attachment that contradicts the terms of this Contract for Independent Contractor, or that would change the obligations of the State under this Contract for Independent Contractor, shall be void and unenforceable.

6. **CONSIDERATION**. The parties agree that Contractor will provide the services specified in *Section 5, Incorporated Documents* at a cost as noted below:

\$ Agreed			Task Authorization
Total Contract Not to Exceed:	\$860,000		

The State does not agree to reimburse Contractor for expenses unless otherwise specified in the incorporated attachments. Any intervening end to a biennial appropriation period shall be deemed an automatic renewal (not changing the overall Contract term) or a termination as the result of legislative appropriation may require.

- 7. **ASSENT**. The parties agree that the terms and conditions listed on incorporated attachments of this Contract are also specifically a part of this Contract and are limited only by their respective order of precedence and any limitations specified.
- 8. **BILLING SUBMISSION: TIMELINESS.** The parties agree that timeliness of billing is of the essence to the Contract and recognize that the State is on a Fiscal Year. All billings for dates of service prior to July 1 must be submitted to the state no later than the first Friday in August of the same calendar year. A billing submitted after the first Friday in August, which forces the State to process the billing as a stale claim pursuant to NRS 353.097, will subject Contractor to an administrative fee not to exceed one hundred dollars (\$100.00). The parties hereby agree this is a reasonable estimate of the additional costs to the state of processing the billing as a stale claim and that this amount will be deducted from the stale claim payment due to Contractor.

#### 9. **INSPECTION & AUDIT**.

- A. <u>Books and Records</u>. Contractor agrees to keep and maintain under generally accepted accounting principles (GAAP) full, true and complete records, contracts, books, and documents as are necessary to fully disclose to the State or United States Government, or their authorized representatives, upon audits or reviews, sufficient information to determine compliance with all State and federal regulations and statutes.
- B. <u>Inspection & Audit</u>. Contractor agrees that the relevant books, records (written, electronic, computer related or otherwise), including, without limitation, relevant accounting procedures and practices of Contractor or its subcontractors, financial statements and supporting documentation, and documentation related to the work product shall be subject, at any reasonable time, to inspection, examination, review, audit, and copying at any office or location of Contractor where such records may be found, with or without notice by the State Auditor, the relevant State agency or its contracted examiners, the department of Administration, Budget Division, the Nevada State Attorney General's Office or its Fraud Control Units, the state Legislative Auditor, and with regard to any federal funding, the relevant federal agency, the Comptroller General, the General Accounting Office, the Office of the Inspector General, or any of their authorized representatives. All subcontracts shall reflect requirements of this Section.
- C. <u>Period of Retention</u>. All books, records, reports, and statements relevant to this Contract must be retained a minimum three (3) years, and for five (5) years if any federal funds are used pursuant to the Contract. The retention period runs from the date of payment for the relevant goods or services by the state, or from the date of termination of the Contract, whichever is later. Retention time shall be extended when an audit is scheduled or in progress for a period reasonably necessary to complete an audit and/or to complete any administrative and judicial litigation which may ensue.

#### 10. CONTRACT TERMINATION.

- A. <u>Termination Without Cause</u>. Regardless of any terms to the contrary, this Contract may be terminated upon written notice by mutual consent of both parties. The State unilaterally may terminate this contract without cause by giving not less than thirty (30) days' notice in the manner specified in *Section 4, Notice*. If this Contract is unilaterally terminated by the State, Contractor shall use its best efforts to minimize cost to the State and Contractor will not be paid for any cost that Contractor could have avoided.
- B. <u>State Termination for Non-Appropriation</u>. The continuation of this Contract beyond the current biennium is subject to and contingent upon sufficient funds being appropriated, budgeted, and otherwise made available by the State Legislature and/or federal sources. The State may terminate this Contract, and Contractor waives any and all claims(s) for damages, effective immediately upon receipt of written notice (or any date specified therein) if for any reason the contracting Agency's funding from State and/or federal sources is not appropriated or is withdrawn, limited, or impaired.
- C. <u>Termination with Cause for Breach</u>. A breach may be declared with or without termination. A notice of breach and termination shall specify the date of termination of the Contract, which shall not be sooner than the expiration of the Time to Correct, if applicable, allowed under subsection 10D. This Contract may be terminated by either party upon written notice of breach to the other party on the following grounds:
  - 1) If Contractor fails to provide or satisfactorily perform any of the conditions, work, deliverables, goods, or services called for by this Contract within the time requirements specified in this Contract or within any granted extension of those time requirements; or
  - 2) If any state, county, city, or federal license, authorization, waiver, permit, qualification or certification required by statute, ordinance, law, or regulation to be held by Contractor to provide the goods or services required by this Contract is for any reason denied, revoked, debarred, excluded, terminated, suspended, lapsed, or not renewed; or
  - 3) If Contractor becomes insolvent, subject to receivership, or becomes voluntarily or involuntarily subject to the jurisdiction of the Bankruptcy Court; or
  - 4) If the State materially breaches any material duty under this Contract and any such breach impairs Contractor's ability to perform; or

- 5) If it is found by the State that any quid pro quo or gratuities in the form of money, services, entertainment, gifts, or otherwise were offered or given by Contractor, or any agent or representative of Contractor, to any officer or employee of the State of Nevada with a view toward securing a contract or securing favorable treatment with respect to awarding, extending, amending, or making any determination with respect to the performing of such contract; or
- 6) If it is found by the State that Contractor has failed to disclose any material conflict of interest relative to the performance of this Contract.
- D. <u>Time to Correct</u>. Unless the breach is not curable, or unless circumstances do not permit an opportunity to cure, termination upon declared breach may be exercised only after service of formal written notice as specified in *Section 4, Notice*, and the subsequent failure of the breaching party within fifteen (15) calendar days of receipt of that notice to provide evidence, satisfactory to the aggrieved party, showing that the declared breach has been corrected. Upon a notice of breach, the time to correct and the time for termination of the contract upon breach under subsection 10C, above, shall run concurrently, unless the notice expressly states otherwise.
- E. <u>Winding Up Affairs Upon Termination</u>. In the event of termination of this Contract for any reason, the parties agree that the provisions of this Section survive termination:
  - 1) The parties shall account for and properly present to each other all claims for fees and expenses and pay those which are undisputed and otherwise not subject to set off under this Contract. Neither party may withhold performance of winding up provisions solely based on nonpayment of fees or expenses accrued up to the time of termination.
  - 2) Contractor shall satisfactorily complete work in progress at the agreed rate (or a pro rata basis if necessary) if so requested by the Contracting Agency;
  - 3) Contractor shall execute any documents and take any actions necessary to effectuate an assignment of this Contract if so requested by the Contracting Agency;
  - 4) Contractor shall preserve, protect and promptly deliver into State possession all proprietary information in accordance with *Section 21, State Ownership of Proprietary Information.*
- 11. **REMEDIES**. Except as otherwise provided for by law or this Contract, the rights and remedies of the parties shall not be exclusive and are in addition to any other rights and remedies provided by law or equity, including, without limitation, actual damages, and to a prevailing party reasonable attorneys' fees and costs. For purposes of an award of attorneys' fees to either party, the parties stipulate and agree that a reasonable hourly rate of attorneys' fees shall be one hundred and fifty dollars (\$150.00) per hour. The State may set off consideration against any unpaid obligation of Contractor to any State agency in accordance with NRS 353C.190. In the event that Contractor voluntarily or involuntarily becomes subject to the jurisdiction of the Bankruptcy Court, the State may set off consideration against any unpaid obligation of Contractor to the State or its agencies, to the extent allowed by bankruptcy law, without regard to whether the procedures of NRS 353C.190 have been utilized.
- 12. **LIMITED LIABILITY**. The State will not waive and intends to assert available NRS Chapter 41 liability limitations in all cases. Contract liability of both parties shall not be subject to punitive damages. Damages for any State breach shall never exceed the amount of funds appropriated for payment under this Contract, but not yet paid to Contractor, for the Fiscal Year budget in existence at the time of the breach. Contractor's tort liability shall not be limited.
- 13. **FORCE MAJEURE**. Neither party shall be deemed to be in violation of this Contract if it is prevented from performing any of its obligations hereunder due to strikes, failure of public transportation, civil or military authority, act of public enemy, accidents, fires, explosions, or acts of God, including without limitation, earthquakes, floods, winds, or storms. In such an event the intervening cause must not be through the fault of the party asserting such an excuse, and the excused party is obligated to promptly perform in accordance with the terms of the Contract after the intervening cause ceases.
- 14. **INDEMNIFICATION AND DEFENSE**. To the fullest extent permitted by law, Contractor shall indemnify, hold harmless and defend, not excluding the State's right to participate, the State from and against all liability, claims, actions, damages, losses, and expenses, including, without limitation, reasonable attorneys' fees and costs, arising out of any

breach of the obligations of Contractor under this contract, or any alleged negligent or willful acts or omissions of Contractor, its officers, employees and agents. Contractor's obligation to indemnify the State shall apply in all cases except for claims arising solely from the State's own negligence or willful misconduct. Contractor waives any rights of subrogation against the State. Contractor's duty to defend begins when the State requests defense of any claim arising from this Contract.

- 15. **REPRESENTATIONS REGARDING INDEPENDENT CONTRACTOR STATUS.** Contractor represents that it is an independent contractor, as defined in NRS 333.700(2) and 616A.255, warrants that it will perform all work under this contract as an independent contractor, and warrants that the State of Nevada will not incur any employment liability by reason of this Contract or the work to be performed under this Contract. To the extent the State incurs any employment liability for the work under this Contract; Contractor will reimburse the State for that liability.
- 16. **INSURANCE SCHEDULE.** Unless expressly waived in writing by the State, Contractor must carry policies of insurance and pay all taxes and fees incident hereunto. Policies shall meet the terms and conditions as specified within this Contract along with the additional limits and provisions as described in *Attachment BB*, incorporated hereto by attachment. The State shall have no liability except as specifically provided in the Contract.

Contractor shall not commence work before Contractor has provided the required evidence of insurance to the Contracting Agency. The State's approval of any changes to insurance coverage during the course of performance shall constitute an ongoing condition subsequent to this Contract. Any failure of the State to timely approve shall not constitute a waiver of the condition.

- A. <u>Insurance Coverage</u>. Contractor shall, at Contractor's sole expense, procure, maintain and keep in force for the duration of the Contract insurance conforming to the minimum limits as specified in *Attachment BB*, incorporated hereto by attachment. Unless specifically stated herein or otherwise agreed to by the State, the required insurance shall be in effect prior to the commencement of work by Contractor and shall continue in force as appropriate until:
  - 1) Final acceptance by the State of the completion of this Contract; or
  - 2) Such time as the insurance is no longer required by the State under the terms of this Contract; whichever occurs later.

Any insurance or self-insurance available to the State shall be in excess of and non-contributing with, any insurance required from Contractor. Contractor's insurance policies shall apply on a primary basis. Until such time as the insurance is no longer required by the State, Contractor shall provide the State with renewal or replacement evidence of insurance no less than thirty (30) days before the expiration or replacement of the required insurance. If at any time during the period when insurance is required by the Contract, an insurer or surety shall fail to comply with the requirements of this Contract, as soon as Contractor has knowledge of any such failure, Contractor shall immediately notify the State and immediately replace such insurance or bond with an insurer meeting the requirements.

- B. General Requirements.
  - 1) <u>Additional Insured</u>: By endorsement to the general liability insurance policy, the State of Nevada, its officers, employees and immune contractors as defined in NRS 41.0307 shall be named as additional insureds for all liability arising from the Contract.
  - <u>Waiver of Subrogation</u>: Each insurance policy shall provide for a waiver of subrogation against the State of Nevada, its officers, employees and immune contractors as defined in NRS 41.0307 for losses arising from work/materials/equipment performed or provided by or on behalf of Contractor.
  - 3) <u>Cross Liability</u>: All required liability policies shall provide cross-liability coverage as would be achieved under the standard ISO separation of insureds clause.
  - 4) <u>Deductibles and Self-Insured Retentions</u>: Insurance maintained by Contractor shall apply on a first dollar basis without application of a deductible or self-insured retention unless otherwise specifically agreed to by the State. Such approval shall not relieve Contractor from the obligation to pay any deductible or self-insured retention. Any deductible or self-insured retention shall not exceed fifty thousand dollars (\$50,000.00) per occurrence, unless otherwise approved by the Risk Management Division.

- 5) <u>Policy Cancellation</u>: Except for ten (10) days notice for non-payment of premiums, each insurance policy shall be endorsed to state that without thirty (30) days prior written notice to the State of Nevada, c/o Contracting Agency, the policy shall not be canceled, non-renewed or coverage and/or limits reduced or materially altered, and shall provide that notices required by this Section shall be sent by certified mail to the address shown on page one (1) of this contract.
- 6) <u>Approved Insurer</u>: Each insurance policy shall be:
  - a) Issued by insurance companies authorized to do business in the State of Nevada or eligible surplus lines insurers acceptable to the State and having agents in Nevada upon whom service of process may be made; and
  - b) Currently rated by A.M. Best as "A-VII" or better.

#### C. Evidence of Insurance.

Prior to the start of any work, Contractor must provide the following documents to the contracting State agency:

 <u>Certificate of Insurance</u>: The Acord 25 Certificate of Insurance form or a form substantially similar must be submitted to the State to evidence the insurance policies and coverages required of Contractor. The certificate must name the State of Nevada, its officers, employees and immune contractors as defined in NRS 41.0307 as the certificate holder. The certificate should be signed by a person authorized by the insurer to bind coverage on its behalf. The State project/Contract number; description and Contract effective dates shall be noted on the certificate, and upon renewal of the policies listed, Contractor shall furnish the State with replacement certificates as described within Section 16A, Insurance Coverage.

# Mail all required insurance documents to the State Contracting Agency identified on Page one of the Contract.

- 2) <u>Additional Insured Endorsement</u>: An Additional Insured Endorsement (CG 20 10 11 85 or CG 20 26 11 85), signed by an authorized insurance company representative, must be submitted to the State to evidence the endorsement of the State as an additional insured per *Section 16B, General Requirements*.
- 3) <u>Schedule of Underlying Insurance Policies</u>: If Umbrella or Excess policy is evidenced to comply with minimum limits, a copy of the underlying Schedule from the Umbrella or Excess insurance policy may be required.
- 4) <u>Review and Approval</u>: Documents specified above must be submitted for review and approval by the State prior to the commencement of work by Contractor. Neither approval by the State nor failure to disapprove the insurance furnished by Contractor shall relieve Contractor of Contractor's full responsibility to provide the insurance required by this Contract. Compliance with the insurance requirements of this Contract shall not limit the liability of Contractor or its subcontractors, employees or agents to the State or others, and shall be in additional to and not in lieu of any other remedy available to the State under this Contract or otherwise. The State reserves the right to request and review a copy of any required insurance policy or endorsement to assure compliance with these requirements.
- 17. **COMPLIANCE WITH LEGAL OBLIGATIONS.** Contractor shall procure and maintain for the duration of this Contract any state, county, city or federal license, authorization, waiver, permit qualification or certification required by statute, ordinance, law, or regulation to be held by Contractor to provide the goods or services required by this Contract. Contractor shall provide proof of its compliance upon request of the Contracting Agency. Contractor will be responsible to pay all taxes, assessments, fees, premiums, permits, and licenses required by law. Real property and personal property taxes are the responsibility of Contractor in accordance with NRS 361.157 and NRS 361.159. Contractor agrees to be responsible for payment of any such government obligations not paid by its subcontractors during performance of this Contract.
- 18. **WAIVER OF BREACH**. Failure to declare a breach or the actual waiver of any particular breach of the Contract or its material or nonmaterial terms by either party shall not operate as a waiver by such party of any of its rights or remedies as to any other breach.

- 19. **SEVERABILITY.** If any provision contained in this Contract is held to be unenforceable by a court of law or equity, this Contract shall be construed as if such provision did not exist and the non-enforceability of such provision shall not be held to render any other provision or provisions of this Contract unenforceable.
- 20. **ASSIGNMENT/DELEGATION.** To the extent that any assignment of any right under this Contract changes the duty of either party, increases the burden or risk involved, impairs the chances of obtaining the performance of this Contract, attempts to operate as a novation, or includes a waiver or abrogation of any defense to payment by State, such offending portion of the assignment shall be void, and shall be a breach of this Contract. Contractor shall neither assign, transfer nor delegate any rights, obligations nor duties under this Contract without the prior written consent of the State.
- 21. **STATE OWNERSHIP OF PROPRIETARY INFORMATION**. Any data or information provided by the State to Contractor and any documents or materials provided by the State to Contractor in the course of this Contract ("State Materials") shall be and remain the exclusive property of the State and all such State Materials shall be delivered into State possession by Contractor upon completion, termination, or cancellation of this Contract.
- 22. **PUBLIC RECORDS.** Pursuant to NRS 239.010, information or documents received from Contractor may be open to public inspection and copying. The State has a legal obligation to disclose such information unless a particular record is made confidential by law or a common law balancing of interests. Contractor may label specific parts of an individual document as a "trade secret" or "confidential" in accordance with NRS 333.333, provided that Contractor thereby agrees to indemnify and defend the State for honoring such a designation. The failure to so label any document that is released by the State shall constitute a complete waiver of any and all claims for damages caused by any release of the records.
- 23. **CONFIDENTIALITY**. Contractor shall keep confidential all information, in whatever form, produced, prepared, observed or received by Contractor to the extent that such information is confidential by law or otherwise required by this Contract.
- 24. **FEDERAL FUNDING**. In the event federal funds are used for payment of all or part of this Contract, Contractor agrees to comply with all applicable federal laws, regulations and executive orders, including, without limitation the following:
  - A. Contractor certifies, by signing this Contract, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any federal department or agency. This certification is made pursuant to Executive Orders 12549 and 12689 and Federal Acquisition Regulation subpart 9.4, and any relevant program-specific regulations. This provision shall be required of every subcontractor receiving any payment in whole or in part from federal funds.
  - B. Contractor and its subcontracts shall comply with all terms, conditions, and requirements of the Americans with Disabilities Act of 1990 (P.L. 101-136), 42 U.S.C. 12101, as amended, and regulations adopted thereunder, including 28 C.F.R. Section 35, inclusive, and any relevant program-specific regulations.
  - C. Contractor and it subcontractors shall comply with the requirements of the Civil Rights Act of 1964 (P.L. 88-352), as amended, the Rehabilitation Act of 1973 (P.L. 93-112), as amended, and any relevant program-specific regulations, and shall not discriminate against any employee or offeror for employment because of race, national origin, creed, color, sex, religion, age, disability or handicap condition (including AIDS and AIDS-related conditions.)
- 25. **LOBBYING**. The parties agree, whether expressly prohibited by federal law, or otherwise, that no funding associated with this Contract will be used for any purpose associated with or related to lobbying or influencing or attempting to lobby or influence for any purpose the following:
  - A. Any federal, state, county or local agency, legislature, commission, council or board;
  - B. Any federal, state, county or local legislator, commission member, council member, board member, or other elected official; or
  - C. Any officer or employee of any federal, state, county or local agency; legislature, commission, council or board.
- 26. **GENERAL WARRANTY**. Contractor warrants that all services, deliverables, and/or work products under this Contract shall be completed in a workmanlike manner consistent with standards in the trade, profession, or industry; shall conform

to or exceed the specifications set forth in the incorporated attachments; and shall be fit for ordinary use, of good quality, with no material defects.

- 27. **PROPER AUTHORITY**. The parties hereto represent and warrant that the person executing this Contract on behalf of each party has full power and authority to enter into this Contract. Contractor acknowledges that as required by statute or regulation this Contract is effective only after approval by the State Board of Examiners and only for the period of time specified in the Contract. Any services performed by Contractor before this Contract is effective or after it ceases to be effective are performed at the sole risk of Contractor.
- 28. **DISCLOSURES REGARDING CURRENT OR FORMER STATE EMPLOYEES.** For the purpose of State compliance with NRS 333.705, Contractor represents and warrants that if Contractor, or any employee of Contractor who will be performing services under this Contract, is a current employee of the State or was employed by the State within the preceding 24 months, Contractor has disclosed the identity of such persons, and the services that each such person will perform, to the Contracting Agency.
- 29. ASSIGNMENT OF ANTITRUST CLAIMS. Contractor irrevocably assigns to the State any claim for relief or cause of action which Contractor now has or which may accrue to Contractor in the future by reason of any violation of State of Nevada or federal antitrust laws in connection with any goods or services provided under this Contract.
- 30. **GOVERNING LAW: JURISDICTION.** This Contract and the rights and obligations of the parties hereto shall be governed by, and construed according to, the laws of the State of Nevada, without giving effect to any principle of conflict-of-law that would require the application of the law of any other jurisdiction. The parties consent to the exclusive jurisdiction of and venue in the First Judicial District Court, Carson City, Nevada for enforcement of this Contract, and consent to personal jurisdiction in such court for any action or proceeding arising out of this Contract.
- 31. ENTIRE CONTRACT AND MODIFICATION. This Contract and its integrated attachment(s) constitute the entire agreement of the parties and as such are intended to be the complete and exclusive statement of the promises, representations, negotiations, discussions, and other agreements that may have been made in connection with the subject matter hereof. Unless an integrated attachment to this Contract specifically displays a mutual intent to amend a particular part of this Contract, general conflicts in language between any such attachment and this Contract shall be construed consistent with the terms of this Contract. Unless otherwise expressly authorized by the terms of this Contract, no modification or amendment to this Contract shall be binding upon the parties unless the same is in writing and signed by the respective parties hereto and approved by the Office of the Attorney General and the State Board of Examiners. This Contract, and any amendments, may be executed in counterparts.

IN WITNESS WHEREOF, the parties hereto have caused this Contract to be signed and intend to be legally bound thereby.

Independent Contractor's Signature	Date	Independent Contractor's Title
COLORADO RIVER COMMISSIO	ON OF NEVADA	A
		Executive Director
Eric Witkoski	Date	Title
		APPROVED BY BOARD OF EXAMINERS
Signature – Board of Examiners		
	On:	
		Date
Approved as to form by:		
	On:	:
Christine Guerci-Nyhus, Deputy Attorney Ge Attorney General	eneral for	Date

#### **INSURANCE REQUIREMENTS:**

Consultant and sub-consultants shall procure and maintain until all of their obligations have been discharged, including any warranty periods under this Contract are satisfied, insurance against claims for injury to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Consultant, his agents, representatives, employees or sub-consultants.

The insurance requirements herein are minimum requirements for this Contract and in no way limit the indemnity covenants contained in this Contract.

The State in no way warrants that the minimum limits contained herein are sufficient to protect the Consultant from liabilities that might arise out of the performance of the work under this Contract by the Consultant, his agents, representatives, employees, or sub-consultants. Consultant is free to purchase such additional insurance as may be determined necessary.

A. <u>MINIMUM SCOPE AND LIMITS OF INSURANCE</u> - Consultant shall provide coverage with limits of liability not less than those stated below. An excess liability policy or umbrella liability policy may be used to meet the minimum liability requirements provided that the coverage is written on a "following form" basis.

#### 1. Commercial General Liability – Occurrence Form

Policy shall include bodily injury, property damage, broad form contractual liability and XCU coverage.

•	General Aggregate	\$2,000,000
•	Products – Completed Operations Aggregate	\$1,000,000
•	Personal and Advertising Injury	\$1,000,000
•	Each Occurrence	\$1,000,000

- a. The policy shall be endorsed to include the following additional insured language: "The State of Nevada, Colorado River Commission of Nevada shall be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the Consultant".
- b. Consultant's sub-consultants shall be subject to the same minimum requirements identified above.

#### 2. Automobile Liability

Bodily injury and property damage for any owned, hired, and non-owned vehicles used in the performance of this Contract.

Combined Single Limit (CSL)

\$1,000,000

- a. The policy shall be endorsed to include the following additional insured language: "The State of Nevada, Colorado River Commission of Nevada be named as an additional insured with respect to liability arising out of the activities performed by, or on behalf of the Consultant, including automobiles owned, leased, hired or borrowed by the Consultant".
- b. Consultant's sub-consultants shall be subject to the same minimum requirements identified in this section.

#### 3. Worker's Compensation and Employers' Liability

Workers' Compensation	Statutory
Employers' Liability	
Each Accident	\$100,000
Disease – Each Employee	\$100,000
Disease – Policy Limit	\$500,000

- a. Policy shall contain a waiver of subrogation against the State of Nevada.
- b. Consultant's sub-consultants shall be subject to the same minimum requirements identified in this section.
- c. This requirement shall not apply when a contractor or subcontractor is exempt under N.R.S., **AND** when such contractor or subcontractor executes the appropriate sole proprietor waiver form.

#### 4. Professional Liability (Errors and Omissions Liability)

Each Claim	\$1,000,000
Annual Aggregate	\$2,000,000

- a. In the event that any professional liability insurance required by this Contract is written on a claims-made basis, Consultant warrants that any retroactive date under the policy shall precede the effective date of this Contract; and that either continuous coverage will be maintained or an extended discovery period will be exercised for a period of two (2) years beginning at the time work under this Contract is completed.
- b. Policy shall contain a waiver of subrogation against the State of Nevada.
- B. <u>ADDITIONAL INSURANCE REQUIREMENTS:</u> The policies shall include, or be endorsed to include, the following provisions:
  - 1. On insurance policies where the State of Nevada is named as an additional insured, the State shall be an additional insured to the full limits of liability purchased by the Consultant even if those limits of liability are in excess of those required by this Contract.
  - 2. The Consultant's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.
- C. <u>NOTICE OF CANCELLATION:</u> Contractor shall for each insurance policy required by the insurance provisions of this Contract shall not be suspended, voided or canceled except after providing thirty (30) days prior written notice been given to the State, except when cancellation is for non-payment of premium, then ten (10) days prior notice may be given. Such notice shall be sent directly to **Robert Reese, 555 E. Washington Ave., Suite 3100, Las Vegas, NV 89101.** Should contractor fail to provide State timely notice, contractor will be considered in breach and subject to cure provisions set forth within this contract.
- D. ACCEPTABILITY OF INSURERS: Insurance is to be placed with insurers duly licensed or authorized to do business in the state of Nevada and with an "A.M. Best" rating of not less than A-VII. The State in no way warrants that the above-required minimum insurer rating is sufficient to protect the Consultant from potential insurer insolvency.
- E. **VERIFICATION OF COVERAGE:** Consultant shall furnish the State with certificates of insurance (ACORD form or equivalent approved by the State) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

All certificates and any required endorsements are to be received and approved by the State before work commences. Each insurance policy required by this Contract must be in effect at or prior to commencement of work under this Contract and remain in effect for the duration of the project. Failure to maintain the insurance policies as required by this Contract or to provide evidence of renewal is a material breach of contract.

All certificates required by this Contract shall be sent directly to **Robert Reese**, **555 E. Washington Ave., Suite 3100, Las Vegas, NV 89101**. The State project/contract number and project description shall be noted on the certificate of insurance. The State reserves the right to require complete, certified copies of all insurance policies required by this Contract at any time.

- F. <u>SUBCONSULTANTS:</u> All required sub-consultant's certificates and endorsements are to be received and approved by the State before work commences. All insurance coverages for sub-consultants shall be subject to the minimum requirements identified above, unless otherwise specified in this Contract.
- G. <u>APPROVAL:</u> Any modification or variation from the insurance requirements in this Contract shall be made by the State Attorney General's Office or the Risk Manager, whose decision shall be final. Such action will not require a formal Contract amendment but may be made by administrative action.



#### BUSINESS REFERENCE'S RESPONSE TO REFERENCE QUESTIONNAIRE FOR

#### STATE OF NEVADA REQUEST FOR PROPOSAL (RFP) ES-21-01

**Engineering Services** 

#### PART A – TO BE COMPLETED BY PROPOSING VENDOR – Please type or print

Name of Company Submitting Proposal:

#### PART B – IF APPLICABLE, NAME OF COMPANY ACTING AS SUBCONTRACTOR FOR VENDOR IDENTIFIED IN PART A – Please type or print

Name of Subcontractor:

	PART C – BUSINESS REFERENCE INSTRUCTIONS
1.	This Reference Questionnaire is being submitted to your organization for completion as a business reference for the company listed in Part A or Part B, above.
2.	Business reference is requested to submit the completed Reference Questionnaire via email or facsimile to:
	State of Nevada, Purchasing Division
	Subject: RFP ES-21-01
	Attention: Purchasing Division
	Email: rvradenburg@admin.nv.gov
	Fax: 775-684-0188
	Please reference the RFP number in the subject line of the email or on the fax.
3.	The completed Reference Questionnaire MUST be received no later than 4:30 PM PT 04/12/2021.
4.	Do NOT return the Reference Questionnaire to the Proposer (Vendor).
5.	In addition to the Reference Questionnaire, the State may contact references by phone for further clarification, if necessary.
6.	Questions regarding the Reference Questionnaire or process should be directed to the individual identified on the RFP cover page.
7.	When contacting the State, please be sure to include the RFP number listed at the top of this page.
8.	We request all questions be answered. If an answer is not known, please answer as "U/K". If the question is not applicable, please answer as "N/A".
9.	If you need additional space to answer a question or provide a comment, please attach additional pages. If attaching additional pages, please place your company/organization name on each page and reference the RFP # noted at the top
	of this page.

PART D – COMPANY PROVIDING REFERENCE – Please type or print CONFIDENTIAL INFORMATION WHEN COMPLETED		
<b>Company Providing Reference:</b>		
Contact Name:		
Title:		
Contact Telephone:		
Contact Email Address:		

## **RATING SCALE:**

Where a rating is requested and using the Rating Scale provided below, rate the following questions by noting the appropriate number for each item. Please provide any additional comments you feel would be helpful to the State regarding this contractor.

Category	Rating
Poor or Inadequate Performance	0
Below Average Performance	1 – 3
Average Performance	4-6
Above Average Performance	7 - 9
Excellent Performance	10

# PART E – QUESTIONS:

1.	In what capacity have you worked with this vendor in the past?

2. Rate the	firm's knowledge and expertise.	RATING:	
Comments:			

3. Rate the	vendor's flexibility relative to changes in the project scope and timelines.	<b>RATING:</b>	
Comments:			

4. Rate you vendor.	r level of satisfaction with soft and/or hard copy materials produced by the	RATING:	
Comments:			

5. Rate the	dynamics/interaction between the vendor and your staff.	RATING:	
Comments:			

6. Rate you	r satisfaction with the products developed by the vendor.	RATING:	
Comments:			

	w well the agreed upon, planned schedule was consistently met and les provided on time. (This pertains to delays under the control of the	RATING:	
Comments:			

	overall customer service and timeliness in responding to customer service, issues and resolutions.	RATING:	
Comments:			

	he knowledge of the vendor's assigned staff and their ability to accomplish as contracted.	RATING:	
Comments			

10. Rate the	accuracy and timeliness of the vendor's billing and/or invoices.	RATING:	
Comments:			

11. Rate the v services p	vendor's ability to quickly and thoroughly resolve a problem related to the rovided.	RATING:	
Comments:			

Comments:	

13. Rate the likelihood of your company/organization recommending this vendor to others in the future.	RATING:	
Comments:		

14. With whi	RATING:		
Comments:			

7

15. With which aspect(s) of this vendor's services are you least satisfied?		RATING:
Comments:		
16. Would v	ou recommend this vendor to your organization again?	RATING:

16. would ye	KATING:		
Comments:			

# **PART F – GENERAL INFORMATION:**

During what tim	e period did the vendor provide	these se	ervices for your or	ganization?
Month/Year:		TO:	Month/Year:	

## Attachment F

# **PROPOSED STAFF RESUME**

A resume must be completed for all proposed prime contractor staff and proposed subcontractor staff.

|--|

Check the appropriate box if the proposed individual is prime contractor staff or subcontractor s				
Contractor:		Subcontractor:		

The following information requested pertains to the individual being proposed for this project.				
Name:				Key Personnel: (Yes/No)
Individual's Title			·	
# of Years in Classification:			# of Years with Fir	m:

#### BRIEF SUMMARY OF PROFESSIONAL EXPERIENCE

Information should include a brief summary of the proposed individual's professional experience.

Insert required information here.

#### **RELEVANT EXPERIENCE**

Information required should include: timeframe, company name, company location, position title held during the term of the contract/project and details of contract/project.

Insert here relevant experience as it relates to this project.

#### EDUCATION

Information required should include: institution name, city, state, degree and/or Achievement and date completed/received.

Insert here the requested educational information.

CERTIFICATIONS

Information required should include: type of certification and date completed/received.

Insert here any certifications proposed individual has received.

#### REFERENCES

A minimum of three (3) references are required, including name, title, organization, phone number, fax number and email address.

Insert here a minimum of three (3) references with the above information.

# COST SCHEDULE Engineering Services

Vendor Name\_\_\_\_\_

Direct Labor – Job Titles	Hourly Rate
A.	\$
В.	\$
C.	\$
D.	\$
E.	\$
F.	\$
G.	\$
H.	\$
I.	\$
J.	\$



# Section I – Title Page

Part IA – Technical Proposal			
RFP Title:	Engineering Services		
RFP #:	21-01		
Vendor Name:	Quanta Utility Engineering Services, Inc.		
Address:	4770 N. Belleview Avenue, Suite 100		
Address.	Kansas City, MO 64116-2190		
Proposal Opening Date:	04/26/2021		
Proposal Opening Time:	2:00pm		



# Section II - Table of Contents

- 3. Vendor Information Sheet
- 4. State Documents
  - Signature Page from Amendments (N/A)
  - Submission Checklist
  - Attachment A
  - Attachment B
  - Attachment C (Proposed Contract Form Redlines)
  - Attachment H (N/A)
  - Certifications and Licenses
- 5. Scope of Work
- 6. Company Background with References
  - Statement of Qualifications
  - Quanta Services, Inc. (NYSE: PWR) 2020 10K Financial Reports
- 7. Proposed Staff Resumes



# **Section III – Vendor Information Sheet**

# **VENDOR INFORMATION SHEET FOR RFP ES-21-01**

## Vendor Shall:

- A) Provide all requested information in the space provided next to each numbered question. The information provided in Sections V1 through V3 shall be used for development of the contract;
- B) Type or print responses; and
- C) Include this Vendor Information Sheet in Section III of the Technical Proposal.

	Company Name			
V1	Quanta Utility Engineering Services, Inc.			

V2	Company Address		
	Street Address:	4770 N. Belleview Avenue, Suite 100	
	City, State, Zip Code:	Kansas City, Missouri 64116-2190	

		Tel	ephone Numbers	
		Area Code	Number	Extension
V3	Telephone:	816	414-1100	
	Fax:	866	404-0623	
	Toll Free:			

	Contact Person for Questions / Contract Negotiations, including address if different than above	
	Name:	Paul Lennox
	Title:	Program Manager
V4	Address:	See above
	Email Address:	plennox@ques.com
	Telephone Number:	217-372-7400
	Fax:	866-404-0623

V5	Name of Individual Authorized to Bind the Organization		
	Name:	Alyx Galan	
	Title:	President	

Signature (Individual shall be legally authorized to bind the vendor per NRS 333.337)			
Date: April 26, 2021			



# **Section IV – State Documents**

## 14. SUBMISSION CHECKLIST

This checklist is provided for vendor's convenience only and identifies documents that shall be submitted in order to be considered responsive. Any proposals received without these requisite documents may be deemed non-responsive and not considered for contract award.

	Part IA – Technical Proposal Submission Requirements	Completed
Part IA submit	ted in one (1) separate PDF file	
Section I	Title Page	Х
Section II	Table of Contents	Х
Section III	Vendor Information Sheet	Х
Section IV	State Documents	Х
Section V	Scope of Work	Х
Section VI	Company Background and References	Х
Section VII	Attachment F – Proposed Staff Resume(s)	Х
Section VIII	Other Informational Material	
	Part IB – Confidential Technical Proposal Submission Requirements	
Part IB submit	ted in one (1) separate PDF file	
Section I	Title Page	
Section II	Appropriate sections and information that cross references back to the technical proposal	
	Part II – Cost Proposal Submission Requirements	
Part II submitt	ed in one (1) separate PDF file	
Section I	Title Page	Х
Section II	Cost Proposal	Х
	Part III – Confidential Financial Information Submission Requirements	
Part III submit	ted in one (1) separate PDF file	
Section I	Title Page	
Section II	Financial Information and Documentation	
	CD or Flash Drive Required	
One (1)	Master CD or Flash Drive with the technical and cost proposal contents only	
One (1)	Public Records CD or Flash Drive with the technical and cost proposal public record contents only	-
	Reference Questionnaire Reminders	
Send out Refe	rence Forms for Vendor (with Part A completed)	
Send out Refe	rence Forms for proposed Subcontractors (with Part A and Part B completed, if applicable)	

#### ATTACHMENT A - CONFIDENTIALITY AND CERTIFICATION OF INDEMNIFICATION

Submitted proposals, which are marked "confidential" in their entirety, or those in which a significant portion of the submitted proposal is marked "confidential" <u>shall not</u> be accepted by the State of Nevada. Pursuant to NRS 333.333, only specific parts of the proposal may be labeled a "trade secret" as defined in NRS 600A.030(5). All proposals are confidential until the contract is awarded; at which time, both successful and unsuccessful vendors' technical and cost proposals become public information.

In accordance with the Submittal Instructions of this RFP, vendors are requested to submit confidential information in a separate binder/file marked "Part IB – Confidential Technical" and "Part III - Confidential Financial Information".

The State shall not be responsible for any information contained within the proposal. If vendors do not comply with the labeling and packaging requirements, proposals shall be released as submitted. In the event a governing board acts as the final authority, there may be public discussion regarding the submitted proposals that shall be in an open meeting format, the proposals shall remain confidential.

By signing below, I understand it is my responsibility as the vendor to act in protection of the labeled information and agree to defend and indemnify the State of Nevada for honoring such designation. I duly realize failure to so act shall constitute a complete waiver, and all submitted information shall become public information; additionally, failure to label any information that is released by the State shall constitute a complete waiver of any and all claims for damages caused by the release of the information.

This proposal contains Confidential Information, Trade Secrets and/or Proprietary information.

#### Please initial the appropriate response in the boxes below and provide the justification for confidential status.

	Part IB – Confidential <mark>Technica</mark> l Information	on
YES	NO	Х
	Justification for Confidential Status	
	Part III – Confidential Financial Information	on
VEC	NO	N/

	YES	NO	Х
Justification for Confidential Status	Ju	stification for Confidential Status	
oustine to a connection of the	042		

A Public Records CD or I	Flash Drive has been included for the Tee	chnical and Cost Proposal
YES	NO	Х

Quanta Utility Engineering Services, Inc.

Company Name	
Signature	
Alyx Galan	April 26, 2021
Print Name	Date
This document shall be submi	ted in Section IV of vendor's technical proposal

#### ATTACHMENT B – VENDOR CERTIFICATIONS

Vendor agrees and shall comply with the following:

- (1) Any and all prices that may be charged under the terms of the contract do not and shall not violate any existing federal, State or municipal laws or regulations concerning discrimination and/or price fixing. The vendor agrees to indemnify, exonerate and hold the State harmless from liability for any such violation now and throughout the term of the contract.
- (2) All proposed capabilities can be demonstrated by the vendor.
- (3) The price(s) and amount of this proposal have been arrived at independently and without consultation, communication, agreement or disclosure with or to any other contractor, vendor or potential vendor.
- (4) All proposal terms, including prices, shall remain in effect for a minimum of 180 days after the proposal due date. In the case of the awarded vendor, all proposal terms, including prices, shall remain in effect throughout the contract negotiation process.
- (5) No attempt has been made at any time to induce any firm or person to refrain from proposing or to submit a proposal higher than this proposal, or to submit any intentionally high or noncompetitive proposal. All proposals shall be made in good faith and without collusion.
- (6) All conditions and provisions of this RFP are deemed to be accepted by the vendor and incorporated by reference in the proposal, except such conditions and provisions that the vendor expressly excludes in the proposal. Any exclusion shall be in writing and included in the proposal at the time of submission.
- (7) Each vendor shall disclose any existing or potential conflict of interest relative to the performance of the contractual services resulting from this RFP. Any such relationship that might be perceived or represented as a conflict shall be disclosed. By submitting a proposal in response to this RFP, vendors affirm that they have not given, nor intend to give at any time hereafter, any economic opportunity, future employment, gift, loan, gratuity, special discount, trip, favor, or service to a public servant or any employee or representative of same, in connection with this procurement. Any attempt to intentionally or unintentionally conceal or obfuscate a conflict of interest shall automatically result in the disqualification of a vendor's proposal. An award shall not be made where a conflict of interest exists. The State shall determine whether a conflict of interest exists and whether it may reflect negatively on the State's selection of a vendor. The State reserves the right to disqualify any vendor on the grounds of actual or apparent conflict of interest.
- (8) All employees assigned to the project are authorized to work in this country.
- (9) The company has a written equal opportunity policy that does not discriminate in employment practices with regard to race, color, national origin, physical condition, creed, religion, age, sex, marital status, sexual orientation, developmental disability or disability of another nature.
- (10) The company has a written policy regarding compliance for maintaining a drug-free workplace.
- (11) Vendor understands and acknowledges that the representations within their proposal are material and important and shall be relied on by the State in evaluation of the proposal. Any vendor misrepresentations shall be treated as fraudulent concealment from the State of the true facts relating to the proposal.
- (12) Vendor shall certify that any and all subcontractors comply with Sections 7, 8, 9, and 10, above.
- (13) The proposal shall be signed by the individual(s) legally authorized to bind the vendor per NRS 333.337.

Quanta Utility Engineering Services, Inc.

Vendor Signature Alyx Galan	April 26, 2021
Print Name	Date

#### ATTACHMENT C – CONTRACT FORM

Vendors shall review the terms and conditions of the standard contract used by the State for all services of independent contractors. It is not necessary for vendors to complete the contract form with their proposal.

Attachment C – Contract Form may be accessed and downloaded from the attachments tab in NevadEpro.com or by accessing the solicitation from the "Open Bids" selection on NevadaEPro.com prior to signing into an account.

CETS#	
RFP# ES-21-01	

#### CONTRACT FOR SERVICES OF INDEPENDENT CONTRACTOR

A Contract Between the State of Nevada Acting by and Through its

Agency Name:	Colorado River Commission of Nevada
Address:	555 E. Washington Avenue, Suite 3100
City, State, Zip Code:	Las Vegas, NV 89101
Contact:	Robert Reese
Phone:	702-682-6972
Fax:	702-856-3617
Email:	breese@crc.nv.gov

Contractor Name:	
Address:	
City, State, Zip Code:	
Contact:	
Phone:	
Fax:	
Email:	

WHEREAS, NRS 333.700 authorizes officers, departments, institutions, boards, commissions, and other agencies in the Executive Department of the State Government which derive their support from public money in whole or in part to engage, subject to the approval of the Board of Examiners (BOE), services of persons as independent contractors; and

WHEREAS, it is deemed that the service of Contractor is both necessary and in the best interests of the State of Nevada.

NOW, THEREFORE, in consideration of the aforesaid premises, the parties mutually agree as follows:

1. **REQUIRED APPROVAL.** This Contract shall not become effective until and unless approved by the Nevada State Board of Examiners.

#### 2. DEFINITIONS.

- A. "State" means the State of Nevada and any State agency identified herein, its officers, employees and immune contractors as defined in NRS 41.0307.
- B. "Contracting Agency" means the State agency identified above.
- C. "Contractor" or "Consultant" means the person or entity identified above that performs services and/or provides goods for the State under the terms and conditions set forth in this Contract.
- D. "Fiscal Year" means the period beginning July 1st and ending June 30th of the following year.
- E. "Contract" Unless the context otherwise requires, "Contract" means this document entitled Contract for Services of Independent Contractor and all Attachments or Incorporated Documents.
- F. "Contract for Independent Contractor" means this document entitled Contract for Services of Independent Contractor exclusive of any Attachments or Incorporated Documents.

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 CONTRACT TERM. This Contract shall be effective as noted below, unless sooner terminated by either party as specified in Section 10, Contract Termination. Contract is subject to Board of Examiners' approval.

- 4. NOTICE. All communications, including notices, required or permitted to be given under this Contract shall be in writing and directed to the parties at the addresses stated above. Notices may be given: (i) by delivery in person; (ii) by a nationally recognized next day courier service, return receipt requested; or (iii) by certified mail, return receipt requested. If specifically requested by the party to be notified, valid notice may be given by facsimile transmission or electronic mail to the address(es) such party has specified in writing.
- 5. INCORPORATED DOCUMENTS. The parties agree that this Contract, inclusive of the following attachments, specifically describes the scope of work. This Contract incorporates the following attachments in descending order of constructive precedence:

ATTACHMENT A:	SCOPE OF WORK, DELIVERABLES, PAYMENT SCHEDULE, and NEGOTIATED POINTS (if needed)
ATTACHMENT B:	INSURANCE SCHEDULE
ATTACHMENT C:	STATE SOLICITATION # and AMENDMENTS #
ATTACHMENT D:	VENDOR PROPOSAL

Any provision, term or condition of an Attachment that contradicts the terms of this Contract for Independent Contractor, or that would change the obligations of the State under this Contract for Independent Contractor, shall be void and unenforceable.

#### 6. **CONSIDERATION**. The parties agree that Contractor will provide the services specified in *Section 5, Incorporated Documents* at a cost as noted below:

\$ Agreed		per	Task Authorization
Total Contract Not to Exceed:	\$860,000		

The State does not agree to reimburse Contractor for expenses unless otherwise specified in the incorporated attachments. Any intervening end to a biennial appropriation period shall be deemed an automatic renewal (not changing the overall Contract term) or a termination as the result of legislative appropriation may require.

- ASSENT. The parties agree that the terms and conditions listed on incorporated attachments of this Contract are also specifically a part of this Contract and are limited only by their respective order of precedence and any limitations specified.
- 8. BILLING SUBMISSION: TIMELINESS. The parties agree that timeliness of billing is of the essence to the Contract and recognize that the State is on a Fiscal Year. All billings for dates of service prior to July 1 must be submitted to the state no later than the first Friday in August of the same calendar year. A billing submitted after the first Friday in August, which forces the State to process the billing as a stale claim pursuant to NRS 353.097, will subject Contractor to an administrative fee not to exceed one hundred dollars (\$100.00). The parties hereby agree this is a reasonable estimate of the additional costs to the state of processing the billing as a stale claim and that this amount will be deducted from the stale claim payment due to Contractor.

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#### 9. INSPECTION & AUDIT.

- A. <u>Books and Records</u>. Contractor agrees to keep and maintain under generally accepted accounting principles (GAAP) full, true and complete records, contracts, books, and documents as are necessary to fully disclose to the State or United States Government, or their authorized representatives, upon audits or reviews, sufficient information to determine compliance with all State and federal regulations and statutes.
- B. <u>Inspection & Audit</u>. Contractor agrees that the relevant books, records (written, electronic, computer related or otherwise), including, without limitation, relevant accounting procedures and practices of Contractor or its subcontractors, financial statements and supporting documentation, and documentation related to the work product shall be subject, at any reasonable time, to inspection, examination, review, audit, and copying at any office or location of Contractor where such records may be found, with or without notice by the State Auditor, the relevant State agency or its contracted examiners, the department of Administration, Budget Division, the Nevada State Attorney General's Office or its Fraud Control Units, the state Legislative Auditor, and with regard to any federal funding, the relevant federal agency, the Comptroller General, the General Accounting Office, the Office of the Inspector General, or any of their authorized representatives. All subcontracts shall reflect requirements of this Section. Notwithstanding anything to the contrary in this Contract, the State shall not have the right to inspect or audit the makeup of any fixed, lump sum, unit price percentage markup, multiplier or any other fixed form of compensation.
- C. <u>Period of Retention</u>. All books, records, reports, and statements relevant to this Contract must be retained a minimum three (3) years, and for five (5) years if any federal funds are used pursuant to the Contract. The retention period runs from the date of payment for the relevant goods or services by the state, or from the date of termination of the Contract, whichever is later. Retention time shall be extended when an audit is scheduled or in progress for a period reasonably necessary to complete an audit and/or to complete any administrative and judicial litigation which may ensue.

#### 10. CONTRACT TERMINATION.

- A. <u>Termination Without Cause</u>. Regardless of any terms to the contrary, this Contract may be terminated upon written notice by mutual consent of both parties. The State unilaterally may terminate this contract without cause by giving not less than thirty (30) days' notice in the manner specified in *Section 4, Notice*. If this Contract is unilaterally terminated by the State, Contractor shall use its best efforts to minimize cost to the State and Contractor will not be paid for any cost that Contractor eavoided. If the State terminates this Contract without cause, the State shall pay Contractor for Work completed prior to the termination.
- B. <u>State Termination for Non-Appropriation</u>. The continuation of this Contract beyond the current biennium is subject to and contingent upon sufficient funds being appropriated, budgeted, and otherwise made available by the State Legislature and/or federal sources. The State may terminate this Contract, and Contractor waives any and all claims(s) for damages, effective immediately upon receipt of written notice (or any date specified therein) if for any reason the contracting Agency's funding from State and/or federal sources is not appropriated or is withdrawn, limited, or impaired.
- C. <u>Termination with Cause for Breach</u>. A breach may be declared with or without termination. A notice of breach and termination shall specify the date of termination of the Contract, which shall not be sooner than the expiration of the Time to Correct, if applicable, allowed under subsection 10D. This Contract may be terminated by either party upon written notice of breach to the other party on the following grounds:
  - If Contractor fails to provide or satisfactorily perform any of the conditions, work, deliverables, goods, or services called for by this Contract within the time requirements specified in this Contract or within any granted extension of those time requirements; or
  - 2) If any state, county, city, or federal license, authorization, waiver, permit, qualification or certification required by statute, ordinance, law, or regulation to be held by Contractor to provide the goods or services required by this Contract is denied, revoked, debarred, excluded, terminated, suspended, lapsed, or not renewed; or
  - If Contractor becomes insolvent, subject to receivership, or becomes voluntarily or involuntarily subject to the jurisdiction of the Bankruptcy Court; or
  - 4) If the State materially breaches any material duty under this Contract and any such breach impairs Contractor's RFP No. ES-21-01 Page 3 of 9

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ability to perform; or

Attachment C

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- 5) If it is found by the State that any quid pro quo or gratuities in the form of money, services, entertainment, gifts, or otherwise were offered or given by Contractor, or any agent or representative of Contractor, to any officer or employee of the State of Nevada with a view toward securing a contract or securing favorable treatment with respect to awarding, extending, amending, or making any determination with respect to the performing of such contract; or
- If it is found by the State that Contractor has failed to disclose any material conflict of interest relative to the performance of this Contract.
- D. <u>Time to Correct</u>. Unless the breach is not curable, or unless circumstances do not permit an opportunity to cure, termination upon declared breach may be exercised only after service of formal written notice as specified in *Section 4, Notice*, and the subsequent failure of the breaching party within fifteen (15) calendar days of receipt of that notice to provide evidence, satisfactory to the aggrieved party, showing that the declared breach has been corrected. Upon a notice of breach, the time to correct and the time for termination of the contract upon breach under subsection 10C, above, shall run concurrently, unless the notice expressly states otherwise.
- E. <u>Winding Up Affairs Upon Termination</u>. In the event of termination of this Contract for any reason, the parties agree that the provisions of this Section survive termination:
  - The parties shall account for and properly present to each other all claims for fees and expenses and pay those which are undisputed and otherwise not subject to set off under this Contract. Neither party may withhold performance of winding up provisions solely based on nonpayment of fees or expenses accrued up to the time of termination.
  - 2) Contractor shall satisfactorily complete work in progress at the agreed rate (or a pro rata basis if necessary) if so requested by the Contracting Agency;
  - Contractor shall execute any documents and take any actions necessary to effectuate an assignment of this Contract if so requested by the Contracting Agency;
  - Contractor shall preserve, protect and promptly deliver into State possession all proprietary information in accordance with Section 21, State Ownership of Proprietary Information.
- 11. REMEDIES. Except as otherwise provided for by law or this Contract, the rights and remedies of the parties shall not be exclusive and are in addition to any other rights and remedies provided by law or equity, including, without limitation, actual damages, and to a prevailing party reasonable attorneys' fees and costs. For purposes of an award of attorneys' fees to either party, the parties stipulate and agree that a reasonable hourly rate of attorneys' fees shall be one hundred and fifty dollars (\$150.00) per hour. The State may set off consideration against any unpaid obligation of Contractor to any State agency in accordance with NRS 353C.190. In the event that Contractor voluntarily or involuntarily becomes subject to the jurisdiction of the Bankruptcy Court, the State may set off consideration against any unpaid obligation of Contractor to the State or its agencies, to the extent allowed by bankruptcy law, without regard to whether the procedures of NRS 353C.190 have been utilized.
- 12. LIMITED LIABILITY. The State will not waive and intends to assert available NRS Chapter 41 liability limitations in all cases. Contract liability of both parties shall not be subject to punitive damages. Damages for any State breach shall never exceed the amount of funds appropriated for payment under this Contract, but not yet paid to Contractor, for the Fiscal Year budget in existence at the time of the breach. Contractor's tort liability shall not be limited.
- 13. FORCE MAJEURE. Neither party shall be deemed to be in violation of this Contract if it is prevented from performing any of its obligations hereunder due to strikes, failure of public transportation, civil or military authority, pandemic, epidemic, quarantine, act of public enemy, accidents, fires, explosions, or acts of God, including without limitation, earthquakes, floods, winds, or storms. In such an event the intervening cause must not be through the fault of the party asserting such an excuse, and the excused party is obligated to promptly perform in accordance with the terms of the Contract after the intervening cause ceases. Contractor shall be entitled to an equitable adjustment in schedule and compensation for any such events. Given the existence of the COVID-19 / coronavirus pandemic, Contractor shall have the right to seek an excusable extension of time if Contractor or its subcontractors and suppliers are unable to maintain planned crew sizes or work force due to the to the elilhess, supply shortages or governmental restraints on business, travel and/or assembly. RFP No. ES-21-01

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14. INDEMNIFICATION AND DEFENSE. To the fullest extent permitted by law, Contractor shall indemnify, hold harmless and defend, not excluding the State's right to participate, the State from and against all liability, claims, actions, damages, losses, and expenses, including, without limitation, reasonable attorneys' fees and costs, arising out of year and the state of the stat

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	<b>Deleted:</b> breach of the obligations of Contractor under this contract, or any alleged negligent or willful acts or omissions of Contractor, its officers, employees and agents.		Deleted: BB		Deleted: minimum		<b>Deleted:</b> no less than thirty (30) days before		C Deleted: for all	Deleted: arising from the		Deleted: not exceed fifty thousand dollars	(\$50,000,00) per occurrence, unless otherwise approved by the Risk Management Division
CETS# RFP# ES-21-01 Attachment C	the Work done in fulfillment of the terms of this Contract or on account of any act, claim or amount arising or recovered under workers' compensation law or arising out of the failure of the Contractor to conform to any statutes, ordinances, regulation, law or court decree but in each instance, only to the extent caused by the negligent act or omission of <u>Contractor</u> . Contractor's obligation to indemnify the State shall apply in all cases except for claims arising solely from the State's own negligence or wilfful misconduct. Contractor waives any rights of subrogation against the State. Contractor's duty to defend begins when the State requests defense of any claim arising from this Contract.	15. REPRESENTATIONS REGARDING INDEPENDENT CONTRACTOR STATUS. Contractor represents that it is an independent contractor, as defined in NRS 333.700(2) and 616A.255, warrants that it will perform all work under this contract as an independent contractor, and warrants that the State of Nevada will not incur any employment liability by reason of this Contract or the work to be performed under this Contract. To the extent the State incurs any employment liability for the work under this Contractor will reimburse the State for that liability.	16. <b>INSURANCE SCHEDULE</b> . Unless expressly waived in writing by the State, Contractor must carry policies of insurance and pay all taxes and fees incident hereunto. Policies shall meet the terms and conditions as specified within this Contract along with the additional limits and provisions as described in <i>Attachment</i> <u><b>D</b></u> , incorporated hereto by attachment. The State shall have no liability except as specifically provided in the Contract.	Contractor shall not commence work before Contractor has provided the required evidence of insurance to the Contracting Agency. The State's approval of any changes to insurance coverage during the course of performance shall constitute an ongoing condition subsequent to this Contract. Any failure of the State to timely approve shall not constitute a waiver of the condition.	A. <u>Insurance Coverage</u> . Contractor shall, at Contractor's sole expense, procure, maintain and keep in force for the duration of the Contract insurance conforming to the Jimits as specified in <i>Attachment</i> <u>D</u> , incorporated hereto by attachment. Unless specifically stated herein or otherwise agreed to by the State, the required insurance shall be in effect prior to the commencement of work by Contractor and shall continue in force as appropriate until:	<ol> <li>Final acceptance by the State of the completion of this Contract; or</li> <li>Such time as the insurance is no longer required by the State under the terms of this Contract; whichever occurs later.</li> </ol>	Any insurance or self-insurance available to the State shall be in excess of and non-contributing with, any insurance required from Contractor. Contractor's insurance policies shall apply on a primary basis. Until such time as the insurance is no longer required by the State, Contractor shall provide the State with renewal or replacement evidence of insurance. Since within ten (10) days of the expiration or replacement of the required insurance. If at any time during the period when insurance is required by the Contract, an insurer or surety shall fail to comply with the requirements of this Contract, as soon as Contractor has knowledge of any such failure. Contractor shall immediately rotify the State and immediately replace such insurance or bond with an insurer meeting the requirements.	<ul> <li><u>General Requirements.</u></li> <li>1) Additional Insured: By endorsement to the general liability insurance policy, the State of Nevada, its officers,</li> </ul>	employees and immune contractors as defined in NRS 41.0307 shall be named as additional insureds to the full limits of Jiability gequired by this Contract.	2) Waiver of Subrogation: Each insurance policy shall provide for a waiver of subrogation against the State of Nevada, its officers, employees and immune contractors as defined in NRS 41.0307 for losses arising from work/materials/equipment performed or provided by or on behalf of Contractor.	3) <u>Cross Liability</u> : All required liability policies shall provide cross-liability coverage as would be achieved under the standard ISO separation of insureds clause.	4) <u>Deductibles and Self-Insured Retentions</u> : Insurance maintained by Contractor shall apply on a first dollar basis without application of a deductible or self-insured retention unless otherwise specifically agreed to by the State. Such approval shall not relieve Contractor from the obligation to pay any deductible or self-insured retention. Any deductible or self-insured retention shall by borne by the Contractor.	RFP No. ES-21-01 Page 7 of 9

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- <u>Policy Cancellation</u>: Except for ten (10) days<u></u> notice for non-payment of premiums, each insurance policy shall be endorsed to state that without thirty (30) days prior written notice to the State of Nevada, *c*/o Contracting Agency, the policy shall not be canceled, non-renewed or coverage and/or limits reduced or materially altered, and shall provide that notices required by this Section shall be sent by certified mail to the address shown on page one (1) of this contract. 3
- 6) Approved Insurer: Each insurance policy shall be:
- Issued by insurance companies authorized to do business in the State of Nevada or eligible surplus lines insurers acceptable to the State and having agents in Nevada upon whom service of process may be made; and a)
- b) Currently rated by A.M. Best as "A-VII" or better.

# C. Evidence of Insurance.

Prior to the start of any work, Contractor must provide the following documents to the contracting State agency:

Certificate of Insurance: The Acord 25 Certificate of Insurance form or a form substantially similar must be submitted to the State to evidence the insurance policies and coverages required of Contractor. The certificate must name the State of Nevada, its officers, employees and immune contractors as defined in NRS 41.0307 as the certificate holder. The certificate should be signed by a person authorized by the insurer to bind coverage on its behalf. The State project/Contract number; description and Contract effective dates shall be noted on the certificate, and upon renewal of the policies listed, Contractor shall furnish the State with replacement certificates as described within *Section 164, Insurance Coverage*. -

# Mail all required insurance documents to the State Contracting Agency identified on Page one of the Contract.

- 11 <u>Additional Insured Endorsement</u>: An Additional Insured Endorsement (CG 20 10 <u>04 13</u> or CG <u>20 37 04 13</u>), signed by an authorized insurance company representative, must be submitted to the State to evidence the endorsement of the State as an additional insured per *Section 16B, General Requirements*. 5
- <u>Schedule of Underlying Insurance Policies</u>: If Umbrella or Excess policy is evidenced to comply with required limits, a copy of the underlying Schedule from the Umbrella or Excess insurance policy may be required. 3

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<u>Review and Approval</u>: Documents specified above must be submitted for review and approval by the State prior to the commencement of work by Contractor. Neither approval by the State nor failure to disapprove the insurance furnished by Contractor shall relieve Contractor of Contractor's full responsibility to provide the insurance required by this Contract. Compliance with the insurance requirements of this Contract shall not limithe liability of Contractor or its subcontractors amployees or agents to the State or others, and shall be in additional to and not in lieu of any other remedy available to the State under this Contract or otherwise. The State reserves the right to request and review a copy of any required insurance endorsement, as appropriate, to assure compliance with these requirements. 4

or

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- Contract any state, county, city or federal license, authorization, waiver, permit qualification or certification required by statute, ordinance, law, or regulation to be held by Contractor to provide the goods or services required by this Contract. Contractor shall provide proof of its compliance upon request of the Contracting Agency. Contractor will be responsible to pay all taxes, assessments, fees, premiums, permits, and licenses required by law. Real property and personal property taxes are the responsibility of Contractor in accordance with NRS 361.157 and NRS 361.159. Contractor agrees to be responsible for payment of any such government obligations not paid by its subcontractors during performance of this COMPLIANCE WITH LEGAL OBLIGATIONS. Contractor shall procure and maintain for the duration of this Contract. 17.
- WAIVER OF BREACH. Failure to declare a breach or the actual waiver of any particular breach of the Contract or its material or nonmaterial terms by either party shall not operate as a waiver by such party of any of its rights or remedies as to any other breach. 18.

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- 19. SEVERABILITY. If any provision contained in this Contract is held to be unenforceable by a court of law or equity, this Contract shall be construed as if such provision did not exist and the non-enforceability of such provision shall not be held to render any other provision or provisions of this Contract unenforceable.
- 20. ASSIGNMENT/DELEGATION. To the extent that any assignment of any right under this Contract changes the duty of either party, increases the burden or risk involved, impairs the chances of obtaining the performance of this Contract, attempts to operate as a novation, or includes a waiver or abrogation of any defense to payment by State, such offending portion of the assignment shall be void, and shall be a breach of this Contract. Contractor shall neither assign, transfer nor delegate any rights, obligations nor duties under this Contract without the prior written consent of the State.
- 21. STATE OWNERSHIP OF PROPRIETARY INFORMATION. Any data or information provided by the State to Contractor and any documents or materials provided by the State to Contractor in the course of this Contract ("State Materials") shall be and remain the exclusive property of the State and all such State Materials shall be delivered into State possession by Contractor upon completion, termination, or cancellation of this Contract.
- 22. PUBLIC RECORDS. Pursuant to NRS 239.010, information or documents received from Contractor may be open to public inspection and copying. The State has a legal obligation to disclose such information unless a particular record is made confidential by law or a common law balancing of interests. Contractor may label specific parts of an individual document as a "trade secret" or "confidential" in accordance with NRS 333.333, provided that Contractor thereby agrees to indemnify and defend the State for honoring such a designation. The failure to so label any document that is released by the State shall constitute a complete waiver of any and all claims for damages caused by any release of the records.
- CONFIDENTIALITY. Contractor shall keep confidential all information, in whatever form, produced, prepared, observed or received by Contractor to the extent that such information is confidential by law or otherwise required by this Contract.
- 24. FEDERAL FUNDING. In the event federal funds are used for payment of all or part of this Contract, Contractor agrees to comply with all applicable federal laws, regulations and executive orders, including, without limitation the following:
  - A. Contractor certifies, by signing this Contract, that neither it nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from participation in this transaction by any federal department or agency. This certification is made pursuant to Executive Orders 12549 and 12689 and Federal Acquisition Regulation subpart 9.4, and any relevant program-specific regulations. This provision shall be required of every subcontractor receiving any payment in whole or in part from federal funds.
  - B. Contractor and its subcontracts shall comply with all terms, conditions, and requirements of the Americans with Disabilities Act of 1990 (P.L. 101-136), 42 U.S.C. 12101, as amended, and regulations adopted thereunder, including 28 C.F.R. Section 35, inclusive, and any relevant program-specific regulations.
  - C. Contractor and it subcontractors shall comply with the requirements of the Civil Rights Act of 1964 (P.L. 88-352), as amended, the Rehabilitation Act of 1973 (P.L. 93-112), as amended, and any relevant program-specific regulations, and shall not discriminate against any employee or offeror for employment because of race, national origin, creed, color, sex, religion, age, disability or handicap condition (including AIDS and AIDS-related conditions.)
- 25. LOBBYING. The parties agree, whether expressly prohibited by federal law, or otherwise, that no funding associated with this Contract will be used for any purpose associated with or related to lobbying or influencing or attempting to lobby or influence for any purpose the following:
  - A. Any federal, state, county or local agency, legislature, commission, council or board;
  - B. Any federal, state, county or local legislator, commission member, council member, board member, or other elected official; or
  - C. Any officer or employee of any federal, state, county or local agency; legislature, commission, council or board.
- GENERAL WARRANTY. Contractor warrants that all services, deliverables, and/or work products under this Contract shall be completed in a workmanlike manner consistent with standards in the trade, profession, or industry; shall conform

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to or exceed the specifications set forth in the incorporated attachments; and shall be fit for ordinary use, of good quality, with no material defects.

EXCEPT FOR THE EXPRESS WARRANTIES AND REPRESENTATIONS SET FORTH IN THIS CONTRACT, CONTRACTOR DOES NOT MAKE ANY OTHER EXPRESS WARRANTIES OR REPRESENTATIONS, OR ANY IMPLIED WARRANTIES OR REPRESENTATIONS, OF ANY KIND WHATSOEVER RELATING TO THIS CONTRACT, THE WORK OR DESIGN, EQUIPMENT, OR MATERIALS TO BE SUPPLIED BY CONTRACTOR UNDER THIS CONTRACT OR TO THE PROJECT, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

- 27. PROPER AUTHORITY. The parties hereto represent and warrant that the person executing this Contract on behalf of each party has full power and authority to enter into this Contract. Contractor acknowledges that as required by statute or regulation this Contract is effective only after approval by the State Board of Examiners and only for the period of time specified in the Contract. Any services performed by Contractor before this Contract is effective or after it ceases to be effective are performed at the sole risk of Contractor.
- 28. DISCLOSURES REGARDING CURRENT OR FORMER STATE EMPLOYEES. For the purpose of State compliance with NRS 333.705, Contractor represents and warrants that if Contractor, or any employee of Contractor who will be performing services under this Contract, is a current employee of the State or was employed by the State within the preceding 24 months, Contractor has disclosed the identity of such persons, and the services that each such person will perform, to the Contracting Agency.
- 29. ASSIGNMENT OF ANTITRUST CLAIMS. Contractor irrevocably assigns to the State any claim for relief or cause of action which Contractor now has or which may accrue to Contractor in the future by reason of any violation of State of Nevada or federal antitrust laws in connection with any goods or services provided under this Contract.
- 30. GOVERNING LAW: JURISDICTION. This Contract and the rights and obligations of the parties hereto shall be governed by, and construed according to, the laws of the State of Nevada, without giving effect to any principle of conflict-of-law that would require the application of the law of any other jurisdiction. The parties consent to the exclusive jurisdiction of and venue in the First Judicial District Court, Carson City, Nevada for enforcement of this Contract, and consent to personal jurisdiction in such court for any action or proceeding arising out of this Contract.
- 31. LIMITATION OF LIABILITY. Notwithstanding anything else to the contrary, Contractor's liability hereunder, from any cause and based on any theory whatsoever, shall not in the aggregate exceed twelve million dollars (\$12,000,000), hereunder, except to the extent of Contractor's (including parties under its control) willful misconduct, and/or breach of confidentiality provisions, and Contractor's indemnity obligations hereunder for third party claims.
- 32. WAIVER OF CONSEQUENTIAL DAMAGES. Notwithstanding anything to the contrary, neither party shall be liable to the other for any consequential, punitive, special, exemplary or indirect damages except that the foregoing shall not apply to or limit Contractor's indemnity obligations for third party claims under this Contract, or liability arising from such party's willful misconduct or breach of confidentiality.
- 33. LATENT SITE CONDITIONS: Anything to the contrary notwithstanding, should concealed or unknown physical conditions be encountered in the performance of the Work, below the surface of the ground or in an existing structure, of an unusual nature, differing materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in this Contract, the Contract sum and time for performance shall be equitably adjusted by Change Order.
- 34. ENTIRE CONTRACT AND MODIFICATION. This Contract and its integrated attachment(s) constitute the entire agreement of the parties and as such are intended to be the complete and exclusive statement of the promises, representations, negotiations, discussions, and other agreements that may have been made in connection with the subject matter hereof. Unless an integrated attachment to this Contract specifically displays a mutual intent to amend a particular part of this Contract, general conflicts in language between any such attachment and this Contract shall be construed consistent with the terms of this Contract. Unless otherwise expressly authorized by the terms of this Contract, no modification or amendment to this Contract shall be binding upon the parties unless the same is in writing and signed by the respective parties hereto and approved by the Office of the Attorney General and the State Board of Examiners. This Contract, and any amendments, may be executed in counterparts.

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	Attachment C	RFP# ES-21-01	
	Attachment C		
N WITNESS WHEREOF, the parties hereto hav	e caused this Cont	ract to be signed and intend to be legally bound th	ereby.
Independent Contractor's Signature	Date	Independent Contractor's Title	
COLORADO RIVER COMMISSION	OF NEVADA		
JOLORADO RIVER COMMINSION	OF NEVADA		
		Executive Director	
Eric Witkoski	Date	Title	
		APPROVED BY BOARD OF EXAMINERS	
Signature – Board of Examiners			
	On:		
	On:		
	On:	Date	
	On:	Date	
Approved as to form by:	On:	Date	
Approved as to form by:		Date	
Approved as to form by:	On: On:	Date	_
Christine Guerci-Nyhus, Deputy Attorney Gener	On:		
	On:	Date	_
Christine Guerci-Nyhus, Deputy Attorney Gener	On:		
Christine Guerci-Nyhus, Deputy Attorney Gener	On:		_

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#### **О ТИЗМНОАТТА**

#### **INSURANCE REQUIREMENTS:**

proprietor waiver form.

Employers' Liability

Workers' Compensation

Disease – Each Employee Disease – Policy Limit

Each Accident

3. Worker's Compensation and Employers' Liability

.d

.b

Consultant and sub-consultants shall procure and maintain until all of their obligations have been discharged, including any warranty periods under this Contract are satisfied, insurance against claims for injury to persons or damage to property which may arise from or in connection with the performance of the work hereunder by the Consultant, his agents, representatives, employees or sub-consultants.

The insurance requirements herein are <mark>the</mark> requirements for this Contract and in no way limit the indemnity covenants contract and in this Contract.

The State in no way warrants that the jimits contained herein are sufficient to protect the Consultant from liabilities that might arise out of the performance of the work under this Contract by the Consultant, his agents, representatives, employees, or sub-consultants. Consultant is free to purchase such additional insurance as may be determined necessary.

 A. MINIMUM SCOPE AND LIMITS OF INSURANCE - Consultant shall provide coverage with limits of liability not less than those stated below. An excess liability policy or umbrella liability policy may be used to meet the tequired liability requirements provided that the coverage is written on a "following form" basis.

	.в	The policy shall be endorsed to include the followin full limits of liability required by this Contract, Commission of Nevada <u>shall</u> be named as an ac arising out of the activities performed by, or o automobiles owned, leased, hired or borrowed by t	The State of Nevada, Colorado River additional insured with respect to liability on behalf of the Consultant, including	
		Combined Single Limit (CSL)	000'000'\\$	
.2	liboB	wo <b>bile Liability</b> א וחjury and property damage for any owned, hired איתאמרפ of this Contract.	red, and non-oon bas, seloidev benwo-non bas, ted	
	a.	The policy shall be endorsed to include the followin full limits of lisbility required by this Contract, Commission of Nevada shall be named as an a arising out of the activities performed by, or on beh	The State of Nevada, Colorado River additionalinsured with respect to liability	
	d • d •	∋eneral Aggregate Products – Completed Operations Aggregate Prsonal and Advertising Injury ≣ach Occurrence	\$2,000,000 \$1,000,000 \$1,000,000	
٦.	Polici	mrercial General Liability – Occurrence Form չԿ shall include bodily injury, property damage, bro ւռցց։	UDX bns viilidail lautostroo moot boord	

This requirement shall not apply when a contractor or subcontractor is exempt under N.R.S., AND when such contractor or subcontractor executes the appropriate sole

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Statutory

Policy shall contain a waiver of subrogation against the State of Nevada.

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Deleted: <#>Consultant's sub-consultants shall be subject to the same minim requirements identified above.¶

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Deleted: <#>Consultant's sub-consultants

Deleted: <#>Consultant's sub-consultants shall be subject to the same minimum requirements identified in this section.¶

#### 4. Professional Liability (Errors and Omissions Liability)

в

Each Claim	\$1,000,000
Annual Aggregate	\$2,000,000

- a. In the event that any professional liability insurance required by this Contract is written on a claims-made basis, Consultant warrants that any retroactive date under the policy shall precede the effective date of this Contract; and that either continuous coverage will be maintained or an extended discovery period will be exercised for a period of two (2) years beginning at the time work under this Contract is completed.
- b. Policy shall contain a waiver of subrogation against the State of Nevada.
- ADDITIONAL INSURANCE REQUIREMENTS: The policies shall include, or be endorsed to include, the following provisions:
  - 1. On insurance policies where the State of Nevada is named as an additional insured, the State shall be an additional insured to the full limits of liability purchased by the Consultant even if those limits of liability are in excess of those required by this Contract.
  - 2. The Consultant's insurance coverage shall be primary insurance and non-contributory with respect to all other available sources.
- C. <u>NOTICE OF CANCELLATION:</u> Contractor shall for each insurance policy required by the insurance provisions of this Contract shall not be suspended, voided or canceled except after providing thirty (30) days prior written notice been given to the State, except when cancellation is for non-payment of premium, then ten (10) days prior notice may be given. Such notice shall be sent directly to **Robert Reese, 555 E. Washington Ave., Suite 3100, Las Vegas, NV 89101.** Should contractor fail to provide State timely notice, contractor will be considered in breach and subject to cure provisions set forth within this contract.
- D. <u>ACCEPTABILITY OF INSURERS:</u> Insurance is to be placed with insurers duly licensed or authorized to do business in the state of Nevada and with an "A.M. Best" rating of not less than A-VII. The State in no way warrants that the above-required minimum insurer rating is sufficient to protect the Consultant from potential insurer insolvency.
- E. <u>VERIFICATION OF COVERAGE:</u> Consultant shall furnish the State with certificates of insurance (ACORD form or equivalent approved by the State) as required by this Contract. The certificates for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf.

All certificates and any required endorsements are to be received and approved by the State before work commences. Each insurance policy required by this Contract must be in effect at or prior to commencement of work under this Contract and remain in effect, <u>or be renewed</u>, for the duration of the project. Failure to maintain the insurance policies as required by this Contract or to provide evidence of renewal is a material breach of contract.

All certificates required by this Contract shall be sent directly to **Robert Reese**, **555 E. Washington Ave.**, **Suite 3100, Las Vegas**, **NV 89101**. The State project/contract number and project description shall be noted on the certificate of insurance. The State reserves the right to require complete, certified copies of all <u>endorsements</u> required by this Contract at any time.

- F. <u>SUBCONSULTANTS:</u> All required sub-consultant's certificates and endorsements are to be received and approved by the State before work commences. All insurance coverages for sub-consultants shall be subject to the minimum requirements identified above, unless otherwise specified in this Contract.
- G. <u>APPROVAL:</u> Any modification or variation from the insurance requirements in this Contract shall be made by the State Attorney General's Office or the Risk Manager, whose decision shall be final. Such action will not require a formal Contract amendment but may be made by administrative action.

Deleted: insurance policies



#### STATE OF NEVADA BOARD OF PROFESSIONAL ENGINEERS AND LAND SURVEYORS

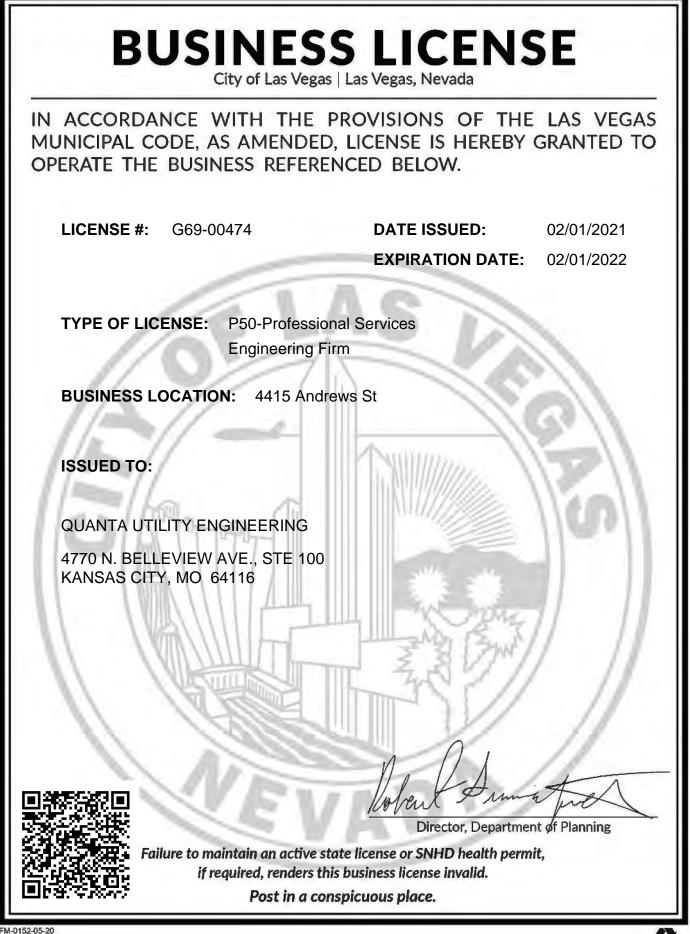
#### **CERTIFICATE OF REGISTRATION**

#### **Quanta Utility Engineering Services, Inc.**

#### IS HEREBY REGISTERED TO OFFER PROFESSIONAL IN THE STATE OF NEVADA

April 12, 2021 Date Of Registration April 11, 2022 Expiration Date

Executive Directo





# Section V – Scope of Work



Quanta Utility Engineering Services, Inc. (QUES) is composed of some of the most highly qualified professionals experienced in all aspects of engineering, designing, asset management and construction management for the electric utility industry. We are a highly mobile and flexible team with the ability to service every area and region within our customers' respective ranges of operation. With more than 600 employees, we have thousands of years of combined electrical utility experience to draw from when making a commitment to provide our clients with a wide selection of electrical utility services.

It is very important to us that we can provide you with every possible service you need to get your job done more effectively and efficiently. It is also of the utmost importance that we maintain a high level of workmanship for ourselves. Our employees' technical skills are matched with the complexity of the projects worked. We are hardworking, down-toearth people who take pride in everything we do. We do our best to make commitments we know we can keep. Our work is as solid as the people who support it.

With today's highly competitive marketplace, it is important that organizations remain strong and viable. Operating within the electrical utility workspace requires a very skilled team. Without proper planning and management, success can become very difficult in this new business world. We have become very proficient in the science of business. Our success stems from extensive experience in our industry. Our continued success can be identified by the list of characteristics and traits that we believe in and practice as a leader in the electrical utility industry:

- Safe Work Practices
- Knowledge
- Reliability
- Initiative
- Integrity
- Commitment to Excellence
- Dependability
- Loyalty
- Decisiveness
- Quality Control

QUES operate under the Quanta Services (NYSE: PWR) parent company umbrella, along with 83 other sibling companies. This makes us the largest specialty contractor in North America, with the capability to provide Design and Engineering solutions for any conceivable need that you may have. With this skill to deliver fully integrated infrastructure solutions across generation, electric and communication industries internally, we are truly a one stop shop to be able to meet any specialized requirements that arise, without the use of a great deal of outside specialized resources. Corporately we self-perform more than 85% of our work. This enables us to be more focused on solutions as opposed to resources.



Since we have collective internal resources to meet most any utility need, our desire is to provide support for any (or all) of the proposed commodities listed in Section 3.3.1. Our demonstrative responses to each individual serve requirement are as follows:

3.1.1 Preparation of fault duty studies, relay coordination studies, load flow studies and other similar type system studies needed to effectively monitor and control the electric system;

All large utilities per form analyses for short circuit programs and grid protection. As the electric utility space evolves into more and more diverse and complex environments, the need for this type of study becomes more and more critical. Especially with the introduction of new renewable generation, the analysis of systems above 10,000 buss points has become not so uncommon. These buss points are points in an electrical network that are interconnected by transmission lines and transformers.

QUES propose to utilize software tools, like CAPE and/or Aspen to assist in the development of the final study results. Generally speaking, the following tasks would be performed as part of a typical fault duty/protection coordination study:

- Task 1 Existing model review
  - Current Transformer (CT) and Voltage Transformer (VT) validation to identify incorrect connections, disconnected instruments, and mismatched winding ratios
  - o Identification of any missing Local Zones of Protection (LZOPs)
  - Primary protection checks to confirm the existence of all the required protective elements
    - This will be based on the client's protection philosophy (e.g., Time Overcurrent (TOC), Instantaneous Overcurrent (IOC), and Distance elements in each LZOP)
- Task 2 Line impedance calculation/re-calculation
  - In this task, the positive and zero-sequence impedances of each of the line segments would be developed. If existing model data exists, this information would be re-calculated, and the updated impedances used in the development of the new model
- Task 3 Protection model updates
  - Create Local Zones of Protection (LZOPs) at the various locations in the study area
  - Import the existing relay settings into the study database
  - Update contact logic codes, and LZOP trip loging using a naming convention that will allow a smooth running of the sensitivity macros in the software tool
  - o Ensure all the data follows standard conventions to facilitate automation
- Task 4 Evaluation and recommendation
  - Provide a Wide-Area Protection Coordination (WAPC) study to assess the existing protection coordination (if applicable) and provide recommendations using the following inputs:
    - Sensitivity analyses using the following typical test:
      - Inverse Time Overcurrent (TOC) Elements

- Checking the ratio of the pickup setting of the element to the measured fault current for faults at the remote bus and at the second remote terminal
- Distance (Impedance) Elements
  - Underreaching zones and must not operate for remote buss faults
  - Overreaching zones and must be able to operate for faults that are not covered by the underreaching element. These elements must also operate for remote bus faults with some overreach into the system beyond the remote buss
  - The Forward element is intended to operate for the failure of a remote primary protection element or interrupting device with enough time delay to allow those devices to operate first to clear a fault
- Overcurrent Fault Detectors of Distance and Differential Elements
  - Tests for sensitivity include checking the ratio of the pickup setting to the measured fault current for a fault at the remote terminal of the line. Sources of fault current at the local bus (relay location) are outaged one at a time to reduce the fault current measured

A coordination analysis would be developed to look at the system in varying conditions, including system normal and N-1 contingencies, protection package outages, and network outages. This would also simulate a wide range of fault types and locations to access the proper operation of the protective relays. A typical study on a single transmission line evaluates hundreds of faults and contingency conditions, which is not feasible to perform manually.

The above sensitivity and coordination analysis would yield a list of recommended relay setting/changes to resolve any protection issues that were identified. These would be systematically tested to ensure they are optimized (resolve issues and not introducing new issues into the system).

3.1.2 Analysis of fault data and relay target data to identify the causes of various relay operations;

See 3.1.1 above. The process for analyzing fault and relay target data is generally part of what QUES would account for in a typical protection coordination study.

3.1.3 Preparation of right-of-way encroachment analysis, including phase-to-phase clearance requirements from planned third party transmission lines;

As part of a normal transmission line design/relocation effort an encroachment analysis is performed.



The general process first seeks to establish survey-quality base mapping to determine the exact property line boundaries. Licensed surveyors are employed to perform the following tasks:

- Property research with the appropriate jurisdiction for existing improvements and site mapping...and compilation of relevant data and input for a basis of utility design
- Utility lookup of county and municipal records to identify existing utilities on or adjacent to the site. This information is included in the final base mapping effort
- Boundary field survey activities will locate and existing monumentation and analyze record mapping to establish physical property boundaries
- Accurate mapping of the existing (or proposed) facilities to be analyzed

Once the base mapping information is compiled, we can analyze the locations of the existing/proposed structures to determine any property line or easement encroachments.

The specific conductor would be analyzed to determine potential encroachments due to overhang in a blowout condition. The criteria for this analysis are driven by the load case governing the design (e.g. NESC 250 B), conductor size/type, analysis temperature, location/terrain data (e.g. elevation and ice loading conditions), and catenary. Depending on the customer requirements for the study and the type of conductor being analyzed, the evaluation can be performed using systematic tools like PLS-CADD or Southwire Sag10.

The analysis can consider the ramifications that are consistent with a single transmission line, like minimum phase-to-phase or phase-to-ground clearances in various conditions (over roads/highways or non-drivable areas), OR how the clearances are interpolated under load for crossing conductors on a separate circuit (of same or different voltage).

The output of this analysis can be represented graphically in plan view or profile view mapping at varying scales as required. The data can also be compiled tabularly for presentation.

3.1.4 Preparation of transmission structure re-location designs;

Transmission structure relocations and new construction designs are a culmination of the initial research, base mapping and electrical engineering effort described above in Sections 3.1.1 and 3.1.3 combined with the structural design considerations associated with the physical erection of towers, poles and conductor. Additionally, in the case of the design/engineering of underground installations, substructure, vaults and cable are designed to meet specific structural and electrical requirements developed for the project and memorialized in the design specification document at the onset with the client.

Overhead relocation designs contemplate the optimal design and placement of overhead facilities that may include a mix of towers, concrete foundation bolted-base self-supporting structures, direct buried wood and LWS/LD steel structures (including multi



pole and h-frame type structures), and several hybrid options that may be viable in specific areas (concrete or concrete/steel hybrid structures, fiberglass, etc.). All these considerations are weighed based on our internal knowledge/expertise and research of the specific applications to determine the most cost effective, safe and reliable option to move forward to final design AND consultation with the client.

The various design considerations contemplate several engineering inputs including (most are being passed from the design specification documentation):

- · Ground survey, property rights constraints and existing utility conflicts
- Geotechnical Review (collection of samples and processing of final report data to feed ultimate foundation design)
- Environmental, Archaeological and Paleontological reviews
- Avian/Raptor protection review and requirements
- Topographical reviews (flood plain, heavy loading areas, etc.)
- Structural analysis (using tools such as PLS-CAD/Pole/Tower)
- Other non-engineering requirements that govern specific parts selection (e.g. Buy America, structural coating requirements, aesthetic criteria, ancillary jurisdictional requirements, etc.)

These inputs generally combine to feed the ultimate design (maps and other corresponding documentation) at progressing stages (usually 30%, 60%, 90% and Final for Construction), pausing at each milestone for joint reviews with the client. The combined end product will robustly document the process that was followed to drive towards Final Design and through the construction effort, incorporating construction changes along the way to develop a final As-Built set of plans.

The final plan set typically includes drawing details for every aspect of the design, including the following:

- Plan and Profile drawings
- Structure/staking information
- Structure details and loading calculations
- Foundation detail drawings (embedment details for direct buried structures)
- Project specific assembly details
- Part-level details/specifications
- Conductor/cable details/specifications
- Grounding assembly and component detail information
- Line phasing diagrams for the entire line
- Aerial marking and lighting details (if required)
- Fiber stringing, termination and splicing details (including cutover plan)
- Switching requirement details (size, type and configuration)
- Trench detail information (for underground installations)
- Bill of Material
- Backfill and details (jurisdictionally and engineering dictated)
- Wire/Cable stringing charts for overhead conductor/cable installation (for each span/ruling span)

- Underground cable details
  - Cable pulling calculations (including sidewall bearing pressure)
  - Setup and pulling schedule (with input from construction)
  - Arrester analysis (for longer UG runs)
  - o Termination and grounding details for UG cable in vaults at riser locations
  - UG cable cut lengths/ordering support
  - Analysis of thermal dissipation requirements/consideration of possible derating of line due to heat production
- The final design set will bet stamped an appropriately disciplined professional engineer licensed in the State of Nevada (or where the project is being contemplated)

3.1.5 Preparation of designs and specifications for replacement, repair, modification, upgrade or extension projects;

Many of the deliverable items discussed in Section 3.1.4 apply here, with one main addition. The development of project level design specifications is key to the design governance of electric utility projects. These specifications set forth the detailed requirements for every facet of the project from the smallest part level to the largest overall structural details and provide a foundational litmus that both the design team and client reviewer can use to prepare and evaluate compliance throughout the design process.

In our experience, design specifications are developed and confirmed at the onset of the project. In one of our current design projects we have a list of specifications governing the design, that include:

- Fiber Optic Cable and Component Assemblies
- Conceptual Design Information and Reporting Requirements
- Overall Scoping Documentation
- Program Requirements Documentation, including but not limited to:
  - Project Assumptions, Constraints, Interferences
  - Designer/Client relationship specifics
  - EH&S requirements
  - Key Interface personnel and milestones
  - QA/QC program requirements
  - Client Preferences
- Overall Commissioning Plan requirements, not limited to:
  - Testing, and acceptance
  - Cutover planning
  - Pre-Operational Checklists
  - Site inspections
  - Roles and responsibilities
  - Material testing
  - Training (as required)
- Conductor Specification
  - Quality Assurance and testing reports
    - Applicable ASTM, NEMA and ISO standards

Attachment D

- Delivery/storage/handling specifications
- Product specific information 0
  - Material condition expectations
  - Size and Type
    - Fabrication expectation requirements
    - Finish
    - Test requirements
  - Packaging (reel size, required wrapping, marking, etc.) •
- Insulator Hardware Specification (Ceramic and Polymer)
  - Standards References (ASME, ASTM, AWS, IEEE, NEMA, etc.)
  - Design detail requirements
  - Test reports/certifications 0
  - Product specific information, including specific detail on: 0
    - Sizing, strength, fabrication specifics, drilling etc. applicable to bolts, pins, keys, shackles, shield rings, clevises, coatings, etc.
  - Spare hardware requirements
  - Marking and Identification
- OPGW/ADSS Specification
  - Similar to conductor, including:
    - Enhanced specific testing
    - Color coding
    - Buffer construction
    - Fiber parameters
      - Single Mode / Multi Mode •
      - Attenuation Coefficients
      - Uniformity
      - Variation and Wavelength
      - Mode Field Diameter
      - Chronic Dispersion
      - Temperature Cycling
- **OPGW/ADSS Hardware Specification**
- **Engineered Steel Pole Specification** 
  - **Compliance Submittals** 0
    - Structure loading calculations and criteria
    - . Foundation load diagrams
    - Inspection and Test plan •
      - Torque ranges for bolted connections
  - o Electrical Details 0
    - Structural details
      - Anchor Bolts, bolts and bolt holes
      - Concrete strength requirements
      - Foundation Rotation
      - Deflection Limits and pre-camber
      - Vent holes and Slip Joints
      - Welding requirements and standard references
      - Tolerances (by component)

- Coating
- Anchor Bolt Details
- Grounding Specification
- Drilled Shaft Foundation Specification
  - Concrete, reinforcement, and forms
    - Testing requirements, methods, and equipment
  - Direct Embedded Foundations
    - o Depths, backfill material, casing requirements, etc.
- Line Design Criteria
  - Conductor and FOC selection, tensions, and characteristics
    - Creep and Load
    - Bi-metallic modeling
  - Survey Requirements
  - o Geotechnical details
  - Right of Way details
  - Conductor Phasing
  - Aeolian Vibration
  - Lightning protection
  - PLS-CADD design criteria
  - Clearances
  - Insulator selection
  - Design standard reference information
  - o Client standard information
  - Safety codes
  - Permitting authorities

3.1.6 Preparation of spill prevention and counter control plans for substation oil containing equipment;

Attached is a sample that was prepared for Safety and Environmental manuals that we have used historically as a template to develop site specific Sill Prevention Containment plans for client substation locations. Additionally, a fully developed SPCC Manual that we helped develop for our client, Southern California Edison, is also attached for reference.



3.1.7 Preparation of standard operating procedures, preventative maintenance programs, site security reviews and emergency response plans;

QUES has historically prepared preventative maintenance program documentation for large utility clients. As part of construction and as specifically requested, we have also prepared site security assessments, construction inspection services and emergency response planning. As a sibling company to QUES, Utility Line Management, Inc, is

Attachment D



uniquely staffed to provide these specific services, with employees well versed from substation operations, maintenance and testing disciplines inside the fence. This handson familiarity with all types of breakers, switchgear and other substation equipment allows us to anticipate real-world situations that may arise.

Attached is an outline of a Preventative Maintenance (PM) Program and Master PM database prepared for a 12KV Customer Service Panel location at Southern California Edison's San Onofre Nuclear Generating Station.



W

Program.docx database.pdf

3.1.8 Supervisory and data acquisition control system programming; and

SCADA and PLC programming is generally part of the commissioning process connected with new line construction or significant modification (e.g. line extensions, conductor upgrades, etc.) that may result in the need to re-program protection equipment to shield substation switchgear and other hardware from damage in and overload or short circuit situation.

Comm system development and redundancy are critical in terms of finding the right match for a particular SCADA system. This could involve options that range anywhere from cloud based systems all the way to cellular modem connections or dedicated radio links to provide connectivity at substations and among substations and master control stations, utilizing the DNP3 protocol to govern interoperability between substations, RTU's and IED's.

3.1.9 Communication system planning and analysis, including preparation of microwave signal interference studies.

Our Comm system capabilities are uniquely robust, providing communication system design and support, including:

- Develop Master Plans utilizing OPGW or ADSS Power, Water, Gas and Municipal Utilities, SCADA, traffic signaling, third party recipients and fiber to future commercial locations
- Design outside plant facilities for the projects, including hardware, attachment points and cable design specifications
- Coordinated the installation and resolved complications which developed due to an installation contractor not qualified to work in the power region of the structure
- Storm/Disaster material acquisition, management and logistics
- GIS updates to Third party communication attachments to Owner facilities
- Provide onsite and/or remote personnel
- Technical expertise for lease line negotiations and recommendations for restoration and inventory monitoring of the fiber optic system



• QA/QC and Close Out/As Built document preparation and control Increasingly, overcoming microwave interference challenges has become more and more problematic, as point-to-point microwave communication has become more and more popular in the telecommunication arena to provide backhaul communication links for cellular sites that don't have copper or fiber access. The challenge comes as geographical areas become saturated with these point-to-point communication links, creating distortion of the signal and quality of service.

Testing using real-time spectrum analysis in the field allows for more precise analysis and the ability to determine potential sources of interference, thus allowing the client to take advantage of as much capacity as possible within the available spectrum. Utilizing swept-tuned and fast Fourier transform (FFT) spectrum analyzers are very effective for detecting a relatively constant signal, or max hold can be used to detect intermittent signals.



# Section VI – Company Background w/ References

#### 4. COMPANY BACKGROUND AND REFERENCES

#### 4.1 VENDOR INFORMATION

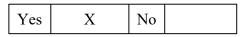
4.1.1 Vendors shall provide a company profile in the table format below.

Question	Response
Company Name:	Quanta Utility Engineering Services, Inc.
Ownership (sole proprietor, partnership, etc.):	100% Quanta Services, Inc. (NYSE:PWR)
State of incorporation:	Missouri
Date of incorporation:	2017
# of years in business:	Nineteen (19)
List of top officers:	Alyx Galan, President
Location of company headquarters, to include City and State:	Kansas City, MO
Location(s) of the office that shall provide the services described in this RFP:	Las Vegas, NV
Number of employees locally with the expertise to support the requirements identified in this RFP:	Thirteen (13)
Number of employees nationally with the expertise to support the requirements in this RFP:	Two Hundred & Eleven (211)
Location(s) from which employees shall be assigned for this project:	Las Vegas, NV. Upland, CA.

- 4.1.2 Pursuant to NRS 333.3354, the State of Nevada awards a five percent (5%) preference to a vendor certifying that its principal place of business is in Nevada. The term 'principal place of business' has the meaning outlined by the United States Supreme Court in <u>Hertz Corp v. Friend</u>, 559 U.S. 77 (2010), typically meaning a company's corporate headquarters. This preference cannot be combined with any other preference, granted for the award of a contract using federal funds, or granted for the award of a contract procured on a multi-state basis. To claim this preference a business must submit a letter with its proposal showing that it qualifies for the preference.
- 4.1.3 **Please be advised**, pursuant to NRS 80.010, a corporation organized pursuant to the laws of another state shall register with the State of Nevada, Secretary of State's Office as a foreign corporation before a contract can be executed between the State of Nevada and the awarded vendor, unless specifically exempted by NRS 80.015.
- 4.1.4 The selected vendor, prior to doing business in the State of Nevada, shall be appropriately licensed by the State of Nevada, Secretary of State's Office pursuant to NRS 76. Information regarding the Nevada Business License can be located at <u>http://nvsos.gov</u>.

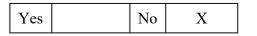
Question	Response
Nevada Business License Number:	City of Las Vegas-License#G69-00474
Legal Entity Name:	Quanta Utility Engineering Services, Inc.

Is "Legal Entity Name" the same name as vendor is doing business as?



If "No," provide explanation.

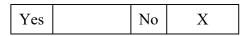
- 4.1.5 Vendors are cautioned that some services may contain licensing requirement(s). Vendors shall be proactive in verification of these requirements prior to proposal submittal. Proposals that do not contain the requisite licensure may be deemed non-responsive.
- 4.1.6 Has the vendor ever been engaged under contract by any State of Nevada agency?



If "Yes," complete the following table for each State agency for whom the work was performed. Table can be duplicated for each contract being identified.

Question	Response
Name of State agency:	
State agency contact name:	
Dates when services were performed:	
Type of duties performed:	
Total dollar value of the contract:	

4.1.7 Are you now or have you been within the last two (2) years an employee of the State of Nevada, or any of its agencies, departments, or divisions?



If "Yes", please explain when the employee is planning to render services, while on annual leave, compensatory time, or on their own time?

If you employ (a) any person who is a current employee of an agency of the State of Nevada, or (b) any person who has been an employee of an agency of the State of Nevada within the past two (2) years, and if such person shall be performing or producing the services which you shall be contracted to provide under this contract, you shall disclose the identity of each such person in your response to this RFP, and specify the services that each person shall be expected to perform.

4.1.8 Disclosure of any significant prior or ongoing contract failures, contract breaches, civil or criminal litigation in which the vendor has been alleged to be liable or held liable in a matter involving a contract with the State of Nevada or any other governmental entity. Any pending claim or litigation occurring within the past six (6) years which may adversely affect the vendor's ability to perform or fulfill its obligations if a contract is awarded as a result of this RFP shall also be disclosed.

Does any of the above apply to your company?

Yes	No	X
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If "Yes", please provide the following information. Table can be duplicated for each issue being identified.

Question	Resp	oonse
Date of alleged contract failure or breach:		
Parties involved:		
Description of the contract failure, contract breach, or litigation, including the products or services involved:		
Amount in controversy:		
Resolution or current status of the dispute:		
If the matter has resulted in a court case:	Court	Case Number
Status of the litigation:		

- 4.1.9 Vendors shall review and provide if awarded a contract the insurance requirements as specified in *Attachment D, Insurance Schedule for RFP ES-21-01.*
- 4.1.10 Company background/history and why vendor is qualified to provide the services described in this RFP. Limit response to no more than five (5) pages.
- 4.1.11 Provide a brief description of the length of time vendor has been providing services described in this RFP to the public and/or private sector.
- 4.1.12 Financial information and documentation to be included in accordance with *Section 9.5, Part III Confidential Financial Information.* 
  - 4.1.12.1 Dun and Bradstreet Number
  - 4.1.12.2 Federal Tax Identification Number
  - 4.1.12.3 The last two (2) years and current year interim:

- A. Profit and Loss Statement
- B. Balance Statement

#### 4.2 SUBCONTRACTOR INFORMATION

Subcontractors are defined as a third party, not directly employed by the contractor, who shall provide services identified in this RFP. This does not include third parties who provide support or incidental services to the contractor.

4.2.1 Does this proposal include the use of subcontractors?

Yes	No	Х
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If "Yes", vendors shall:

- 4.2.1.1 Identify specific subcontractors and the specific requirements of this RFP for which each proposed subcontractor shall perform services.
- 4.2.1.2 If any tasks are to be completed by subcontractor(s), vendors shall:
  - A. Describe how the work of any subcontractor(s) shall be supervised, channels of communication shall be maintained and compliance with contract terms assured; and
  - B. Describe your previous experience with subcontractor(s).
- 4.2.1.3 Provide the same information for any proposed subcontractors as requested in *Section 4.1, Vendor Information*.
- 4.2.1.4 Business references as specified in *Section 4.3, Business References* shall be provided for any proposed subcontractors.
- 4.2.1.5 Vendor shall not allow any subcontractor to commence work until all insurance required of the subcontractor is provided to the vendor.
- 4.2.1.6 Vendor shall notify the using agency of the intended use of any subcontractors not identified within their original proposal and provide the information originally requested in the RFP in *Section 4.2, Subcontractor Information*. The vendor shall receive agency approval prior to subcontractor commencing work.

#### 4.3 **BUSINESS REFERENCES**

- 4.3.1 Vendors shall provide a minimum of three (3) business references from similar projects performed for private, and/or public sector clients within the last three (3) years.
- 4.3.2 Vendors shall submit *Attachment E, Reference Questionnaire* to their business references.



### QUANTA UTILITY ENGINEERING SERVICES

A **QUANTA SERVICES COMPANY** 

# Statement of Qualifications

# DISTRIBUTION TRANSMISSION SUBSTATIONS PROFESSIONAL SERVICES

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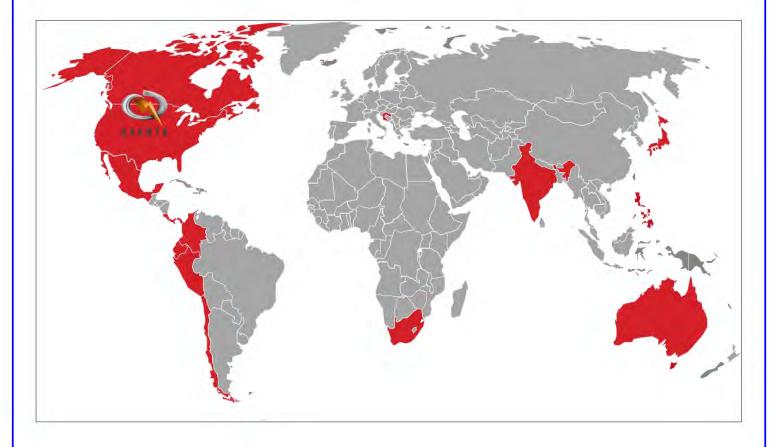
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# **QUANTA SERVICES**

#### Attachment D

**Quanta Services (**NYSE: PWR) is a leading provider of specialized contracting services, delivering infrastructure solutions to the electric power, oil and gas industries, both onshore and offshore.

- Industry-Leading Integrated Infrastructure Solutions Provider
  - Focused on becoming a single-source solution
  - End-to-end solutions on virtually any size project
  - Electric Power, Telecommunications, Oil & Gas Infrastructure
- 2019 revenues of \$12.1 billion
- Senior secured revolving credit facility of \$1.8 billion
- Aggregate bonding capacity in excess of \$5 billion
- Ranked #283 on 2019 Fortune 500
- ENR Top 600
  - #1 2019 Specialty Contractor
  - #1 2019 Utility Contractor
  - #1 2019 Electrical Contractor
- #1 Electrical Construction & Maintenance Magazines Top 50 Electrical Contractors
- Forbes Magazine 2015 listing as one of "Most Trustworthy" Companies
- More than 300 strategic operating centers across United States, Canada, Australia and around the world
- Largest non-utility employer of qualified linemen
- Highly trained, mobile workforce of 40,000+ employees



#### Attachment D

### **QUES ORGANIZATIONAL INFORMATION**

Quanta Utility Engineering Services, Inc. (QUES) is the consolidation of four existing, longstanding distribution, transmission, substation, generation engineering and professional services business units within the Quanta Services portfolio (NYSE: PWR).

Building upon the exceptional reputation and leadership of each company, the concept is that a single brand will enhance the product line visibility, eliminate geographical boundaries and create new business opportunities across North America and the operating markets of Quanta Services around the world.

QUES charter members include PAR Electrical Contractors Engineering Services (2002), Utility Line Management Services (2004), North Sky Engineering (2009) and Utilimap Corporation (2011).

#### PAR Electrical Contractors, Inc. – Engineering Division

In February 2002, the newly formed Engineering and Design Division of PAR Electrical Contractors, Inc. (PAR) began operations with Southern California Edison (SCE) with a simple Deteriorated Pole Design/Build Pilot Program of 1,000 poles. Based upon the success of that program, PAR became the model for all future design contracting entities. Since then, PAR has been successful in securing several, concurrent multi-year contract awards to provide SCE with a variety of overhead and underground Transmission and Distribution Engineering, Planning/Design and Drafting services within all 8 regions of SCE's 50,000-square-mile service territory. Furthermore, PAR has demonstrated its ability to successfully service other large clients with longstanding contracts with San Diego Gas & Electric (SDG&E), Pacific Gas & Electric (PG&E) and NorthWestern Energy (NWE).

#### Utility Line Management Services, Inc.

Utility Line Management Services, Inc. (ULMS) provides professional project support resources for all aspects of Transmission, Distribution, Substation Construction / Maintenance (including Testing and Commissioning), Generation and Telecommunications Projects since 2004. ULMS is experienced in Greenfield, retrofit and commissioning of existing utility facilities. ULMS employs highly skilled/experienced professionals within the industry, including Project Managers, Construction Managers, Quality Control Specialists/Inspectors, Safety Specialists, Startup Engineers, Planners, Project Controls (Cost/Schedule Engineers), Analysts, Construction Material Coordinators, Qualified Electrical Workers and Substation Electrical Checkers.

#### North Sky Engineering, Inc.

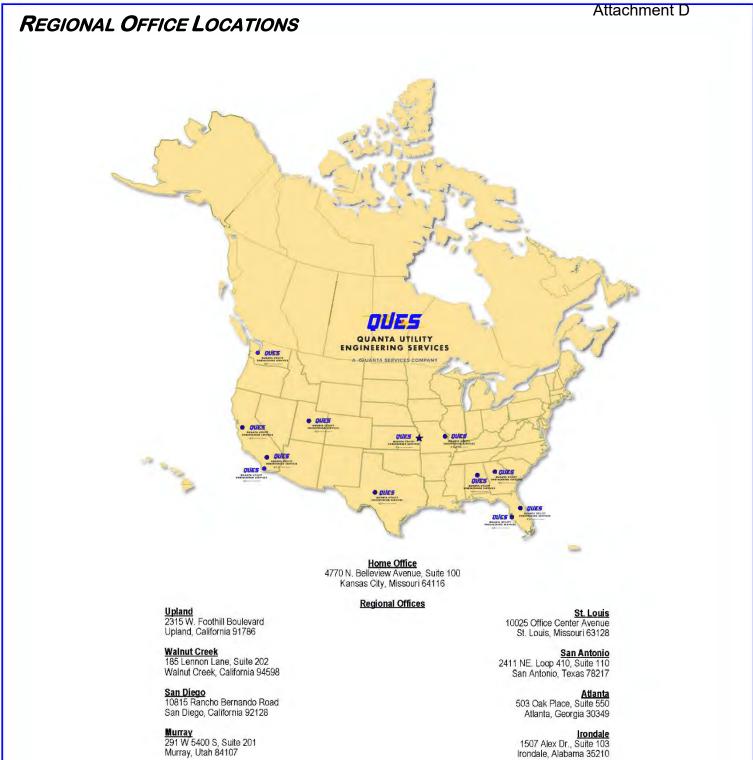
Incorporated in 2009, North Sky Engineering, Inc. (North Sky) is a registered, licensed, electrical engineering firm with principle operations in Washington, Oregon and Alaska. North Sky is composed of Engineers, Technicians, Project Managers and Specialists offering a broad range of professional services that provides the solid base of electrical expertise and creative solutions to the growing demands of the electrical utilities industry. North Sky has developed extremely productive and streamlined processes that QUES utilizes for assessment, planning, engineering and procurement, as well as holding on to the tried and true traditional methods, practices, and techniques. North Sky also offers significant practical experience in project management, procurement and/or construction.

#### Utilimap Corporation, Inc.

In January 2011, the Eastern Division of PAR's Planning, Engineering and Technical Services operation was integrated into Utilimap Corporation (Utilimap), a company acquisition. Utilimap is not only a recognized industry leader in Asset Management, Engineering Design, Technical Services but a prominent, full-service utility inspection company. Utilimap provides distribution, transmission and substation engineering, custom software, vegetation management and asset management services. Utilimap is known for an unwavering commitment to safety, quality and performance. Utilimap was most prominently known for its successful, multiyear involvement with the first, major fiber-to-the-home project in the Midwestern United States.







Irondale 1507 Alex Dr., Suite 103 Irondale, Alabama 35210

39 Skyline Drive, Suite 1017 Lake Mary, Florida 32746

Lutz 18922 N Dale Mabry Hwy Lutz, FL 33548

OUE5 QUANTA UTILITY ENGINEERING SERVICES Auburn 1002 15th St. SW, Suite 230 Auburn, Washington 98001

( QUANTA



### QUES OVERVIEW

#### Attachment D

QUES is composed of some of the most highly qualified professionals experienced in all aspects of engineering, designing, asset management and construction management for the electric utility industry. We are a highly mobile and flexible team with the ability to service every area and region within our customers' respective ranges of operation. With approximately 600 employees, we have thousands of years of combined electrical utility experience to draw from when making a commitment to provide our clients with a wide selection of electrical utility services.

It is very important to us that we can provide you with every possible service you need to get your job done more effectively and efficiently. It is also of the utmost importance that we maintain a high level of workmanship for ourselves. Our employees' technical skills are matched with the complexity of the projects worked. We are hardworking, down-to-earth people who take pride in everything we do. We do our best to make commitments we know we can keep. Our work is as solid as the people who support it.

With today's highly competitive marketplace, it is important that organizations remain strong and viable. Operating within the electrical utility workspace requires a very skilled team. Without proper planning and management, success can become very difficult in this new business world. We have become very proficient in the science of business. Our success stems from extensive experience in our industry. Our continued success can be identified by the list of characteristics and traits that we believe in and practice as a leader in the electrical utility industry:

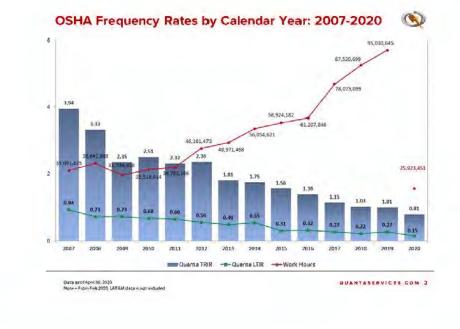
- Safe Work Practices
- Knowledge
- Reliability
- Initiative
- Integrity

- Commitment to Excellence
- Dependability
- Loyalty
- Decisiveness
- Quality Control

# EMPLOYEE HEALTH & SAFETY

Quanta incorporates proactive safety management systems and occupational health processes to mitigate and eliminate incidents/accidents. To achieve our mission, all employees must demonstrate their ownership and commitment by placing the highest value on their health and welfare. Our goal is to lead, perform and operate in a way that preserves and protects the health of all employees and the environment. Quanta's industry-leading safety programs demonstrate our commitment to our employees and their families. Our proactive safety processes and work practices are targeted to achieve our goal of zero injuries and safety excellence.

This commitment to raising the industry standards is evident in Quanta's historical safety record:







### QUALITY PROGRAM

QUES' Quality Program measures relevant customer standards against desired metrics critical in demonstrating project due diligence and in ensuring our customers' confidence in receiving a compliant and successful project outcome.

Each Project Quality Plan is a written process document that identifies the applicable standards and procedures for measuring conformance to customer-specific requirements. The following are key attributes of the Project Quality Plan:

**Quality Control** is the planned collection of product and/or service data to measure and validate the performance of the project against the Quality Plan metrics. Data collection procedure(s) are identified in the Project Quality Plan and may include the following types of procedures:

- Prevention and Inspection Audits
- Attribute or Variable Sampling
- Defining Acceptable Tolerances and Control Limits

**Quality Assurance** is the planned process of comparing field data collected against the planned metric(s) to ensure product and/or service meets the standards established for the project. In addition to standards compliance, Quality Assurance documents project compliance in following customer policies, plans and procedures.

**Continuous Improvement** is the process of continuously looking for small improvements in product and/or service quality throughout the duration of the project. The QUES team continuously seeks ways to improve project performance and create value for our customers through personnel, process and/or technology investments. It is this value proposition which sets us apart and differentiates us from our competitors.

### WMDVBE PARTICIPATION, SUPPORT AND MENTORING

While QUES does not qualify as a WMDVBE, we understand the importance of supporting and promoting diversity in the workplace; therefore, we have built a base of qualified small, minority, women and disabled-veteran-owned business enterprises in each of our markets and service areas. WMDVBE goals are routinely incorporated into our contract management to meet our customers' requirements.

QUES has consistently met or exceeded the diversity goals of a long list of existing clients, including more than 17 years of successful compliance with customer requirements on an extensive variety of projects.

Our WMDVBE teaming philosophy revolves around building long-term relationships that benefit our partners as well as our clients. We view our team as a partnership and mentoring opportunity for all WMDVBE participants. We match this philosophy with action, offering meaningful roles to the SBE, MBE, SBE and DVBE subcontractors and sub-consultants on our project teams. These firms are certified by numerous municipal, state, regional and federal agencies across the country.

We actively seek partners with specialized capabilities to meet the unique requirements of each client or project and to enhance the depth of our service offering. These firms include first- and second-tier subcontractors and suppliers. This approach allows us to further support our commitment to include WMDVBE partners. QUES also routinely performs as a subcontractor to WMDVBE firms in order to help them present a more solid service offering and grow their businesses.

At the start of each project, QUES establishes a scope of work for each WMDVBE partner, consistent with the services needed and our client's goals. It is important to note that while QUES sets a base amount of WMDVBE spend on each project, we never set a ceiling. Our Project Managers monitor the contribution of each WMDVBE partner, providing an up-to-date assessment of the progress towards meeting the WMDVBE goals. We use this monitoring program to redirect work or bring additional partners to the team to accommodate changes in project scope, ensuring that QUES stays on target.





#### Attachment D

Periodically, QUES seeks out unique WMDVBE partners and presents them with an exceptional opportunity to enter into a Mentor/Protégé agreement and be mentored by QUES. QUES' experience within the utility industry is unmatched and our unique strengths are the foundation of our mentoring approach:

- Ability to handle projects that traditionally require multiple service providers
- Comprehensive services address complex needs of our diverse customers
- Significant purchasing power coupled with strength of strategic partnerships
- Access to one of the nation's largest skilled and trained workforces

Through this formal mentoring agreement, QUES can integrate its experience and strength and mentor an emerging MDVBE to develop a business base and an infrastructure to successfully participate on larger projects as a viable company. QUES provides our protégés with assistance in the following areas, as needed:

- Management and Technical Assistance
- Contracting Assistance
- Financial Assistance
- General and Administrative Assistance
- Business Development and Marketing

# SERVICE OFFERINGS

QUES places a high value on providing our customers the services they need to achieve productive, reliable and superior results. QUES is capable of handling virtually every type of electrical utility project, regardless of magnitude. QUES' most common service lines include:

#### DISTRIBUTION ENGINEERING AND DESIGN SERVICES

- Deteriorated Pole Replacement
- OH to UG Conversions
- OH/UG Equipment Install/Replacement
- Residential/Commercial New Services
- New Feeder Circuits
- Circuit Automation
- UG Structure Inspection
- Pole-Load Analysis
- AutoCAD Design
- Emergency Support

- Cable & Switch Replacement
- Heavy UG Duct Lines
- OH/UG Relocations
- Circuit Reliability
- Re-conductor Programs
- Circuit Voltage Cutovers
- Plant Betterment
- Joint-Use "Make-Ready" Services
- Distribution/Substation Protection
- Permit Acquisition





#### TRANSMISSION ENGINEERING SERVICES

- Deteriorated Pole Replacement
- OH to UG Conversions
- Line Siting and Location
- Sag & Tension Analysis
- Cable-Pulling Analysis
- AC vs. DC Economics/Performance
- Circuit Overload Analysis
- PLS CADD Design

- OH/UG Relocations
- Re-conductor Programs
- Conceptual Engineering & Design
- Engineered Structure Design
- Feasibility Studies
- Conductor Vibration Analysis
- Foundation Design & Analysis
- Conductor Parameters

#### SUBSTATION ENGINEERING SERVICES

- Brownfield & Greenfield Substation Design
- Substation Automation
- Grounding System & Studies
- Protection & Control
- Relaying Systems

- Substation Layout & Site Design
- Physical Design
- Conduit & Cable Systems
- Arc Flash Studies
- Fiber OSP Design

#### **DRAFTING SERVICES**

- PLS CADD Drafting
- Large-Scale Base Mapping
- In-field Job Walks
- Traffic Control Plans

- Auto CAD Drafting
- 3D Mapping
- Base-Map Field Verification
- Profile & Construction Details

#### SURVEY AND LAND SERVICES

- Construction Survey & Staking
- GIS Mapping
- Boundary Surveys
- Lidar
- Parcel & ROW Research & Acquisition

- GPS Surveys
- Topographical Surveys
- ROW Survey
- Aerial Mapping
- Document Notarizing & Recording





#### ASSET MANAGEMENT SERVICES

- Joint-Use Inspections & Inventory
- Post-Construction Audits
- Visual Circuit Inspection
- UG Structure Inspections
- Intrusive Pole Inspection & Treatment
- Facility Numbering & Tagging
- Mapping & GIS Services
- Storm Assessment & Patrol
- Streetlight Inspection & Inventory

- Make-Ready Engineering (MRE)
- NESC Clearance Audits
- Drone Inspections
- Vegetation Management
- Pole Reinforcement
- URD Inspections
- Meter Exchange Services
- Meter Reading & Software Services

#### **PROFESSIONAL SERVICES (SUPPLEMENTAL PERSONNEL)**

- Substation Construction/Maintenance
- Transmission Projects
- Distribution Projects
- Utility Real-Estate Support
- Contractor Management

- Substation Commissioning & Testing
- Power Generation Projects
- Telecommunications OSP Projects
- Contract Electrical Checkers
- Material Management

### TURNKEY SERVICES

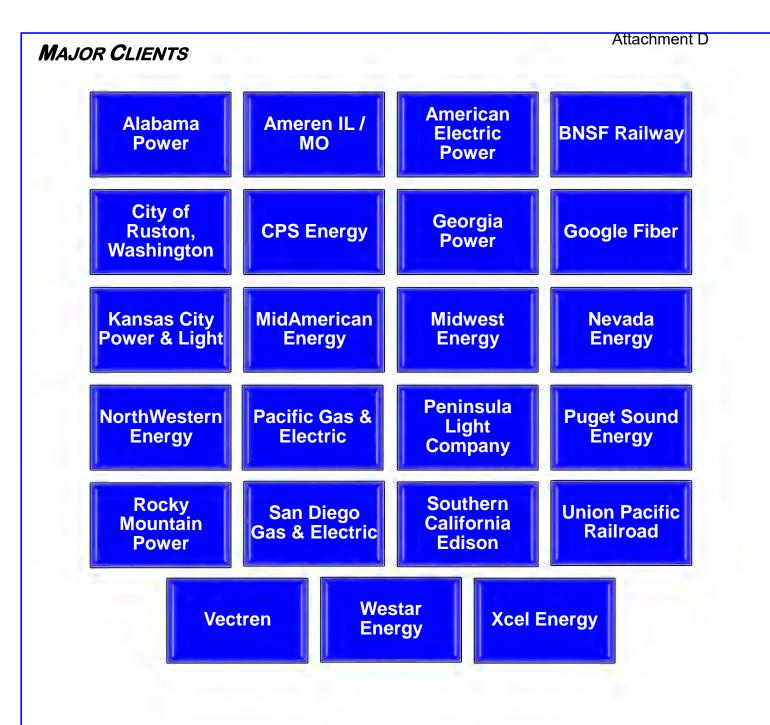
Quanta Services is the only large-scale specialty contractor that can provide our customers with true turnkey services. By combining QUES' capabilities with any of Quanta's Line Construction Operating Units across North America, we can take any utility project from the drafting table to the field and energize it.

The distinctions and benefits between Quanta's turnkey model and traditional design and construction processes include:

- All Design, Coordination and Construction activities are performed by the same entity
- Quanta entities meet internally to determine the components and specifications that would make a "Contractor-Friendly" fieldwork order package that would deliver clear and concise construction information and eliminate unnecessary documents
- The field reviews are performed by the same Construction Coordinator that would be overseeing the Line Crews for that job location, thereby creating familiarity with the projects and customers
- Quanta entities present for 30%, 60% and 90% design reviews
- QUES maintains accountability for all aspects of design
- Effective lines of communication are established and maintained between Design, Coordination and Construction
- Material is ordered and coordinated with Construction, thereby minimizing project delays
- Detailed project progress is available to all project shareholders at all times
- Overall amount of field change orders is greatly minimized
- Reduces project design to construction life-cycle time from 6 months to 1 year (project and customer-dependent)











# PROJECT PROFILE: ALABAMA POWER

#### Attachment D

#### Master Services Agreement Engineering - Planning & Design Services

Date of Award: October 2017 Scheduled Completion: December 2021 Contract Status: Ongoing

- Serviced from both Regional Offices located in Alabama and California
- Distribution Underground Networking and Residential Engineering Services
  - Planning, Property and ROW Acquisition
  - Customer load and load-growth studies
  - Design and Mapping
  - Heavy Downtown Underground
    - UG Cable Replacement
    - UG Structure Analysis, Repair & Replacement
  - Commercial / Residential URD
- Overhead Distribution (Feeders / Lateral)
  - Field survey / data collection
  - Reconductor
  - New Construction
  - System Hardening
  - Design and Mapping
- Voltage Conversions







# PROJECT PROFILE: AMEREN (ILLINOIS AND MISSOURI)

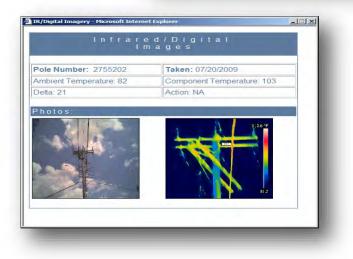
#### Attachment D

#### **Asset Management Services**

Date of Award: June 2001 Scheduled Completion: Open Contract Status: Ongoing

- Primarily serviced from Regional Office located in St. Louis, MO
- Field Services Provided:
  - Asset Inventory
    - Proprietary hand-held collection device, Pole Data Collector (PDC)
    - Asset record management upload, reconcile, update & download
    - GPS location, physical address, billing reference & power attachments
    - Joint-Use attachments
    - Street & area lighting
    - Pole tags & numbering
  - Inspection of Transmission & Distribution OH & UG facilities
    - Ground-based patrol
    - Aerial drone inspections
    - Visual, destructive test & infrared scan
    - Storm assessment first response & following clean-up
  - Pole Test & Treatment
  - Pole Reinforcement
  - Asset Auditing
    - NESC clearance & NERC compliance
    - Post construction
    - Worst-performing circuits









# PROJECT PROFILE: AMEREN (ILLINOIS AND MISSOURI)

#### Attachment D

#### **Overhead Line Distribution Engineering & Design Services**

Date of Award: June 2001 Scheduled Completion: Open Contract Status: Ongoing

- Serviced from both Corporate and Regional Offices located in Kansas City, MO and St. Louis, MO
- Engineering & Technical Services
  - Planning, Property & ROW Acquisition
  - Pole-Load Analysis (PLA)
  - Customer load & load-growth studies
  - Worst-performing circuit remediation
  - Design & Mapping Transmission & Distribution, Protection & Control, Automation
  - Voltage conversion, power quality & harmonics, effective system grounding
  - Reinforcement, re-build, re-conductor & storm hardening
  - Joint-Use, "Make-Ready"
  - Outdoor lighting & signals
  - Permitting & traffic control planning
  - Post-construction inspection, punch list, acceptance & as-built

# Underground Networking Distribution Engineering & Design Services

Date of Award: June 2001 Scheduled Completion: Open Contract Status: Ongoing

- Primarily serviced from Corporate Office located in Kansas City, MO
- Engineering & Technical Services
  - Planning, Property & ROW Acquisition
  - Customer load & load-growth studies, worst-performing circuit remediation
  - Design & Mapping Transmission & Distribution, Protection & Control, Automation
  - Infrastructure foundations, vaults, manholes, flatwork & raceways
  - Voltage conversion, power quality & harmonics, effective system grounding
  - Post-construction inspection, punch list, acceptance & as-built







# PROJECT PROFILE: AMERICAN ELECTRIC POWER (AEP)

# Master Services Agreement - Distribution Overhead and Underground Services

Date of Award: June 2017 Scheduled Completion: Ongoing Contract Status: Ongoing

- Serviced from Regional Office located in St. Louis, MO
- Meter Installation Coordination
  - Installed 200,000+ meters in APCO territory 2017-2018
  - Assigned 260,000 meters in APCO territory for 2019











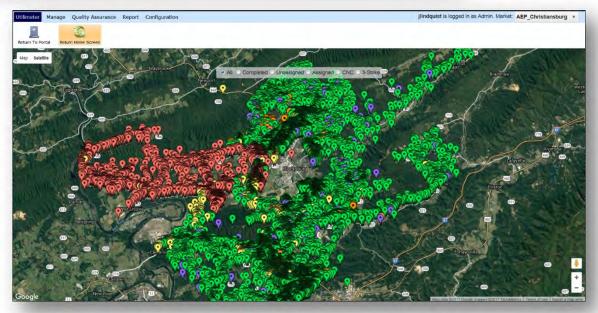
#### Attachment D PROJECT PROFILE: AMERICAN ELECTRIC POWER (AEP) / OHIO

#### Master Services Agreement -Distribution Overhead and Underground Services

Date of Award: September 2018 Scheduled Completion: December 2019 Contract Status: Ongoing

- Serviced from Regional Office located in St. Louis, MO
- Meter Services
  - Meter Reading 2018-2019
  - Disconnect/Reconnect Services 2018-2109
  - Meter Safety/QC Inspections 2018-2019









### PROJECT PROFILE: BNSF RAILWAY

#### Engineering and Construction Management for Replacement of Overhead Step-Down Transformer Bank

Date of Award: January 2018 Scheduled Completion: April 2018 Contract Status: Completed

- Serviced from Regional Office located in Sumner, WA
- Distribution Engineering / Design Services
  - OH/UG Equipment (new install & replacement)
    - Capacitors, Switches, Transformers
  - OH/UG Conversion
    - Converted approximately 2/3 of the existing overhead system to underground







# PROJECT PROFILE: CITY OF RUSTON, WASHINGTON

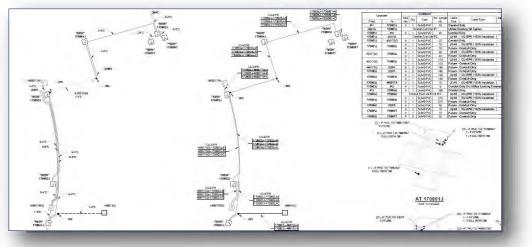
#### Attachment D

UANTA

#### Distribution Overhead and Underground Engineering & Design

Date of Award: August 2013 Scheduled Completion: Open Contract Status: Ongoing

- Serviced from Regional Office located in Sumner, WA
- Distribution Engineering / Design Services
  - Deteriorated Pole Replacement
  - Infrastructure Enhancements
  - UG Cable Replacement
  - OH/UG Equipment (new install & replacement)
    - Capacitors, Switches, Transformers
  - Overhead Reconductoring
  - New Feeder Circuits
  - Drafting Services
  - Permitting Services
    - Supporting SCE Permit Managers for all construction projects
    - Permit acquisition for internal Technical Planning Projects
  - Meter Installation Coordination
  - Policy Development
  - Construction Standards Development
  - Material Specification
  - Coordinate Constriction Assets
  - Construction Installation Approval and Acceptance





# PROJECT PROFILE: CPS ENERGY - SAN ANTONIO, TX

#### Attachment D

#### Inspection Services - Google Fiber & Other Third-Party Attachers

Date of Award: March 2016 Scheduled Completion: July 2020 Contract Status: Complete

- Serviced from Regional Offices in San Antonio, TX as well as Corporate and Regional Offices located in Kansas City, MO and St. Louis, MO
- Working directly for and in support of CPS Energy
- Project Management Office
  - Full-time Project Manager, Project Supervision, engineering and administrative support
- Engineering application compliance with CPS Standards
  - Desktop review of Make-Ready Engineering applications
  - Field review of MRE applications
  - Application status reporting in compliance with CPS schedule commitments
- Construction Inspection
  - Lead and participate in daily crew safety tailboards
  - Validate crew performance with industry best practices and CPS' expectations
  - Ensure installation is consistent with accepted "For Construction" plans as approved by CPS
  - Document any simple deviations (red-line) as acceptable to CPS by best practices or CPS Standards
- Document complex deviations between field and plan, escalate to CPS for timely remedy or redesign

#### **Overhead & Underground Engineering Services**

Date of Award: June 2017 Scheduled Completion: July 2020 Contract Status: Complete

- Serviced from Regional Offices in San Antonio, TX, as well as Corporate Offices located in Kansas City, MO
- Engineering of Electric Distribution Disciplines
  - Underground 1 & 3 Phase Primary & Secondary Systems
  - Underground Residential Distribution Systems
  - Underground Downtown Network Systems
  - Overhead and Underground Streetlight Systems
  - Texas Department of Transportation Relocations







### **PROJECT PROFILE: GEORGIA POWER**

#### Attachment D

#### Engineering & Inspection Services – Google Fiber & Other Third-Party Attachers

Date of Award: April 2015 Scheduled Completion: July 2021 Contract Status: Ongoing

- Serviced from both Regional Offices located in Atlanta, GA; Corporate and Regional Offices located in Kansas City, MO and St. Louis, MO
- Working directly for and in support of Georgia Power
- Project Management Office
  - Establishment of local office in greater Atlanta
  - Full-time Project Manager
  - Full-time Project Supervision, engineering and administrative support
- Engineering application compliance with GPC Standards
  - Desktop review of Make-Ready Engineering applications
  - Field review of MRE applications
  - Application status reporting in compliance with GPC schedule commitments
- Construction Inspection
  - Lead and participate in daily crew safety tailboards
  - Validate crew performance with industry best practices and GPC's' expectations
  - Ensure installation is consistent with accepted "For Construction" plans as approved by GPC
  - Document any simple deviations (red-line) as acceptable to GPC by best practices or GPC Standard
  - Document complex deviations between field and plan; escalate to GPC for timely remedy or redesign
- Storm Assessment Services
  - Support local GPC Operations in tropical storm damage recovery
  - Validate reported outage remedy as complete
  - Document remaining recovery work, stand by and make safe where unsafe conditions remain
  - Document ancillary clean-up of work site debris and landscape







#### Attachment D PROJECT PROFILE: GOOGLE FIBER BUILD-OUT / KANSAS CITY POWER & LIGHT

Project Management Office, Make-Ready Engineering, Planning & Design– Google Fiber & Other Third-Party Attachers

Date of Award: June 2012 Scheduled Completion: December 2019 Contract Status: Complete

- Serviced from both Corporate and Regional Offices located in Kansas City, MO and St. Louis, MO
- Working directly for and in support of Google Fiber build-out across metropolitan Kansas City, MO & Kansas City, KS
- Selected as primary vendor for 100,000+ pole-attachment program
- Full-time Project Management Team
  - Project Manager
  - Project Supervision, engineering and administrative support
  - Safety Program
  - Quality Program
  - Project Schedule
- Make-Ready Engineering, Planning & Design
  - Field survey / data collection
  - Pole-Load Analysis (PLA)
  - Electronic mapping, materials registrar, scheduling and procurement
  - Make-ready construction drawings
    - For approval
    - For construction
    - As-built
  - Permitting & Traffic Control Plans
  - Coordination with other joint users (AT&T, Comcast, etc.)
- Make-ready construction Turnkey project with Quanta sister company, PAR Electrical Contractors, Inc.
  - Simple attachment remedy
  - Complex attachment remedy
  - New construction pole replacement





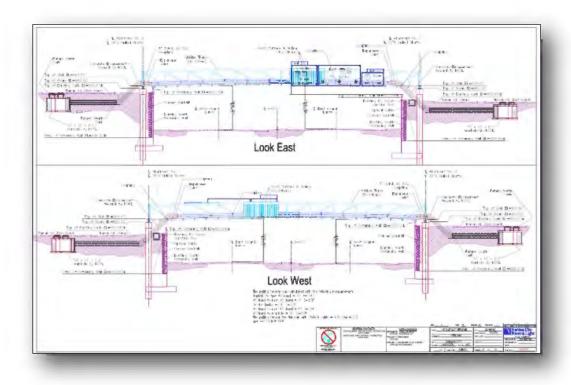


# PROJECT PROFILE: KANSAS CITY POWER & LIGHT

#### Master Services Agreement - Distribution Underground Networking and Residential Engineering & Design

Date of Award: April 2015 Scheduled Completion: December 2020 Contract Status: Ongoing

- Serviced from Corporate Offices located in Kansas City, MO
- Distribution Underground Networking and Residential Engineering Services
  - Planning, Property and ROW Acquisition
  - Customer load and load-growth studies
  - Design and Mapping
- Worst-Performing Circuit Remediation
- Voltage Conversions
  - Field survey / data collection
  - Pole-Load Analysis
  - Electronic mapping, materials registrar, scheduling and procurement
  - Permitting & Traffic Control Plans
  - Coordination with other joint users (AT&T, Comcast, etc.)







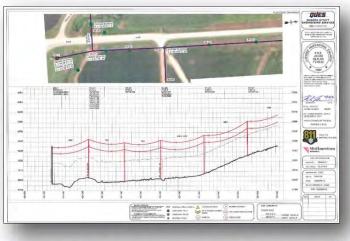
#### Attachment D

### PROJECT PROFILE: MIDAMERICAN ENERGY

#### Engineer, Procure, & Construct (EPC)

Date of Award: May 2018 Scheduled Completion: September 2019 Contract Status: Complete

- Serviced from Corporate Offices located in Kansas City, MO
- Storm Hardening Replacement of 515 miles of single-phase, rural distribution across MEC service territory
  - Approximately 16,000-Pole Installation
  - Fast-Track Project
  - 200 Discrete Line Sections
- Integrated Engineering Model
  - LiDAR Data Collection (Electronic Upload to Design)
  - PLS-CADD Design (Outside MEC System)
    - Create MEC Standards Template & Material BOMs
    - Plan & Profile Drawings
    - Pole-Load Analysis
    - Custom As-Built Process
    - Electronic Update of MEC Systems
- Material Procurement Utilizing MEC Blanket Pricing
  - Separate Material Receipt, Storage, & Expediting
  - MEC Standards BOMs
  - Reconciliation by Map
- Construction (Sister Company PAR Electrical Contractors, Inc.)
  - Construction Safety Plan
  - Distribution Operations Center Coordination
  - Locates
- PMO
  - Project Controls P6 Schedule; Project Reporting
  - QA/QC Plan Audit, Punch-list & MEC Acceptance
  - Permitting
  - Electric Customer Outreach, Concerns, & Design Considerations









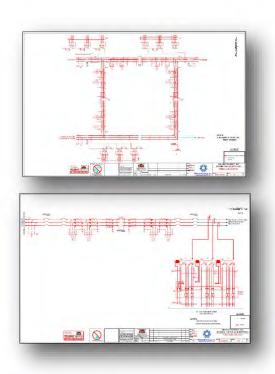
#### Attachment D

### **PROJECT PROFILE: MIDWEST ENERGY**

#### **Greenfield Substation Design**

Date of Award: January 2012 Scheduled Completion: June 2012 Contract Status: Ongoing (Performing ROW Acquisitions on Transmission lines and Substations)

- Serviced from Corporate Offices located in Kansas City, MO
- Greenfield Substation Design
  - Turnkey service including routing study, easement and permitting acquisition, transmission line design, and substation design
  - Complete project management, procurement, and turnkey construction with PAR electric
  - Plan and profiles, BOM's, procurement, grading, and foundations, complete turnkey package inclusive of ROW / permitting and commissioning.
- Gorham Substation: Design a new 115kV Transmission line to extend down to a gas pumping station. Tied into an existing station by adding a new 115kV bay and accommodating bus, self-supporting take off tower, 2000amp breaker, disconnect switches and relay panels. Include plans, accommodations, and sizing for future expansion.
- Seguin Substation: Design a new Greenfield 115kV Ring Bus substation, by cutting into an existing 115kV Transmission line, and then taking transmission line out and extending a new line down to a gas pumping station. Plans included Control House and line relay panels, appropriate switching capability, CCVT, SSVT Transformer, Wave Trap with coupling capacitor and line tuning equipment, as well as sizing for future expansion.
- White Cliffs Substation: Design accommodations to tap in and extend 115kV transmission out to a new Greenfield 7.5 MVA, 115kV-4.16kV Radial Substation to meet the needs of a LP Gas-pumping station. Plans included Control House and line relay panels, appropriate switching capability, CCVT, PTs, Metering, and sizing for future expansion.









# PROJECT PROFILE: NEVADA ENERGY (SIERRA PACIFIC POWER CO.)

Master Services Agreement - Distribution Overhead and Underground Engineering & Design

Date of Award: March 2018 Scheduled Completion: March 2021 Contract Status: Ongoing

- Serviced from Regional Office located in Southern CA
- Distribution Engineering / Design Services
  - Primary Voltage Conversions
  - Overhead Primary Line Re-insulation
  - Overhead Primary Line Re-conductor
  - Avian Protection Projects
- New Business Commercial and Residential Engineering Services

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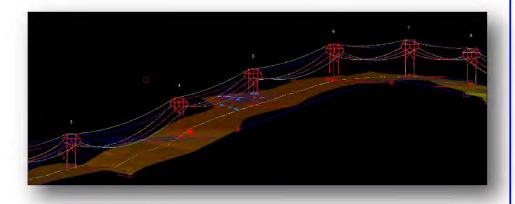


# PROJECT PROFILE: NORTHWESTERN ENERGY

#### Master Services Agreement - OH/UG Transmission / Distribution Electric & Gas Design

Date of Award: January 2007 Scheduled Completion: December 2022 Contract Status: Ongoing

- Serviced directly within NorthWestern offices in Montana & South Dakota
- Supplemental Personnel
- Perform field research, surveying, design, project management and inspection
- Transmission structure design (PLS-CADD)
- Distribution Engineering / Design Services
  - Deteriorated Pole (Conventional)
  - UG Structure & Cable Replacement
  - OH/UG Equipment (new install & replacement)
    - Capacitors, Switches, Transformers
  - Overhead Reconductoring
  - New Feeder Circuits
  - Customer services, gas main, electric overhead and underground primary extensions
  - Survey Services
    - ROW, Topographical, Utility location
    - Construction Staking
    - Easements
- Transmission Inspection and Project Management
  - Quality-Control Inspections
  - Customer outage notification
  - Landowner management
  - Helicopter set coordination
- Gas Production Managers
  - Gas System Maintenance
    - Notify customers of gas outages
    - Project Management
    - Quality-Control Inspections





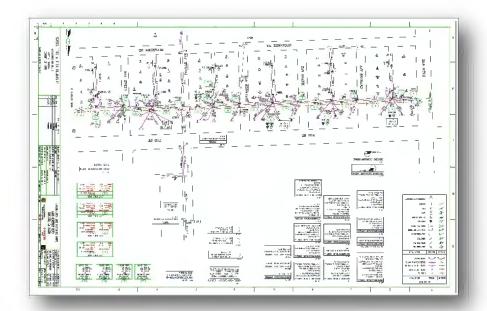


# **PROJECT PROFILE: PACIFIC GAS & ELECTRIC**

#### Master Services Agreement - Distribution Overhead and Underground Networking Engineering & Design

Date of Award: October 2013 Scheduled Completion: Open Contract Status: Ongoing

- Serviced from Regional Offices located in Southern and Northern CA
- Distribution Engineering / Design Services
  - Deteriorated Pole Replacement
  - Mobile Home Park Metering (Design/Build)
  - UG Cable Installation
  - Post-Estimate Validation and Estimation
  - Applicant Design Pricing/Material Input
  - OH/UG Equipment (new install & replacement)
    - Switches
    - Transformers
    - Boosters
    - Reclosers
  - Voltage Conversions
  - Overhead Reconductoring
  - New Feeder Circuits
  - Drafting Services
  - Permitting Services
    - Deteriorated Pole (Distribution & Subtransmission)
    - Permit document completion





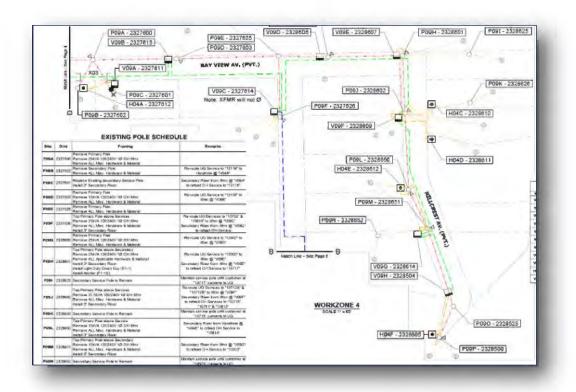
### **PROJECT PROFILE: PENINSULA LIGHT COMPANY**

#### Attachment D

#### Distribution Overhead and Underground Engineering & Design

Date of Award: March 2014 Scheduled Completion: Open Contract Status: Ongoing

- Serviced from Regional Office located in Sumner, WA
- Distribution Engineering / Design Services
  - OH to UG Conversion Projects
  - UG Infrastructure Enhancements
  - OH/UG Equipment (new install & replacement)
    - Capacitors, Switches, Transformers
  - Drafting Services
  - Permitting Services
    - Supporting Project Managers in Permit Acquisition for Construction Projects
    - Easement Diagrams





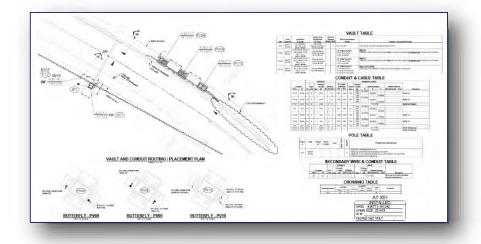


# PROJECT PROFILE: PUGET SOUND ENERGY

#### Master Services Agreement - Distribution Overhead and Underground Engineering & Design

Date of Award: April 2010 Scheduled Completion: Open Contract Status: Ongoing

- Serviced from Regional Office located in Sumner, WA and Client Offices
- Distribution Engineering / Design Services
  - New Feeder Circuits
  - Overhead Reconductoring
  - Clear Zone Projects
  - UG Infrastructure Replacement
  - OH/UG Equipment (new install & replacement)
    - Capacitors, Switches
    - Transformers
    - Regulators
    - Reclosers
  - Protective Device Coordination
  - Field Inventory and Staking
  - Detailed Project Coordination
  - Deteriorated Pole Replacement
  - UG Cable Replacement
  - Voltage Conversions
  - Drafting Services
  - Permitting Services
    - Supporting Project Managers in Permit Acquisition for construction projects
    - Easement Diagrams
  - Storm Restoration Support







# PROJECT PROFILE: ROCKY MOUNTAIN POWER

#### Distribution and Sub-transmission Inspection

Date of Award: January 2017 Scheduled Completion: March 2023 Contract Status: Ongoing

- Serviced from Local office in Salt Lake City and supported from St. Louis Management, IT Services and Mapping
- Distribution and Sub-Transmission Inspection
  - Visual Driving and Foot Patrol Inspection of approximately 250,000 poles, and 30,000 Pad-Mounted Transformers and associated URD devices per year
    - Provide detailed reporting, photos and map enhancements to the legacy Rocky Mountain Power data via ESRI





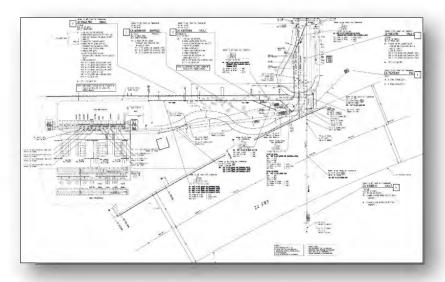


# PROJECT PROFILE: SAN DIEGO GAS & ELECTRIC

# Master Services Agreement - Distribution Overhead and Underground Engineering / Design for Franchise, New Business & Major Projects

Date of Award: March 2018 Scheduled Completion: December 2021 Contract Status: Ongoing

- Serviced from Regional Offices located in Escondido and Upland, CA
- Distribution Engineering / Design Services
  - OH to UG Conversions
  - Deteriorated Pole
  - UG Structure Replacement
  - UG Cable Replacement
  - OH/UG Equipment (new install & replacement)
    - Capacitors, Switches, Transformers
  - Voltage Conversions
  - Overhead Reconductoring
  - New Feeder Circuits
  - Drafting Services
    - Utility Lookup & Base-map
- Design / Build
  - Electrical Vehicle Charging Stations
    - Four locations
    - Design/Build with Quanta sister company, PAR Electrical Contractors, Inc.
  - Mobile Home Utility Upgrade Program
    - One hundred seventy-nine locations
    - Design/Build with Quanta sister company, PAR Electrical Contractors, Inc.

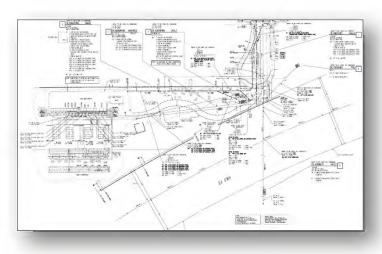




Master Services Agreement - Distribution Overhead and Underground Networking Engineering & Design

Date of Award: February 2002 Scheduled Completion: January 2023 Contract Status: Ongoing

- Serviced from Regional Offices located in Southern California
- First to offer SCE "stand-alone" design services utilizing a blend of retired utility and "non-traditional" personnel for delivery of major utility commodities
- Distribution Engineering / Design Services
  - Deteriorated Pole (Design/Build & Conventional)
  - UG Structure Replacement (Design Build)
  - UG Cable Replacement
  - OH/UG Equipment (new install & replacement)
    - Capacitors, Switches, Transformers
  - Voltage Conversions
  - Overhead Reconductoring
  - New Feeder Circuits
  - Drafting Services
    - Utility Lookup & Base-map (internal projects & client)
    - Traffic Control Plans
  - Survey Services
    - ROW, Topographical, Boundary & Utility
    - Construction Staking
    - Aerial Mapping, Photogrammetry & LiDAR
    - GIS
  - Permitting Services
    - Supporting SCE Permit Managers for all construction projects (5 of 8 SCE Regions)
    - Deteriorated Pole (Distribution & Sub-transmission)
    - Permit acquisition for internal Technical Planning Projects
    - Pot holing
    - Traffic control permitting



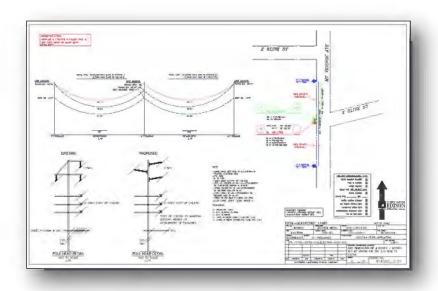




#### Master Services Agreement - Transmission Overhead Engineering & Design

Date of Award: October 2013 Scheduled Completion: December 2020 Contract Status: Ongoing

- Serviced from Regional Offices located in Southern California
  - Performed work in all of SCE's 6 Grids
- Transmission Engineering / Design Services
  - Sub-transmission voltages (66kV 115kV)
  - Deteriorated Pole Replacement (Design/Build & Conventional)
  - Engineered TSP Analysis & Design
    - Steel Pole Moment Calculation and Data Sheet Preparation
  - Capital On-ramp Projects
    - Localized Pole, Conductor and Switch Replacement
  - Transmission Line Rating Remediation (TLRR) Program Design
    - Fault Return Current (FRC) Program Design
  - Relocations
  - Pole-Load Analysis
  - Sag, Swing & Rise Conductor Calculations
  - Drafting Services
    - D.O.T. & Railroad Exhibits







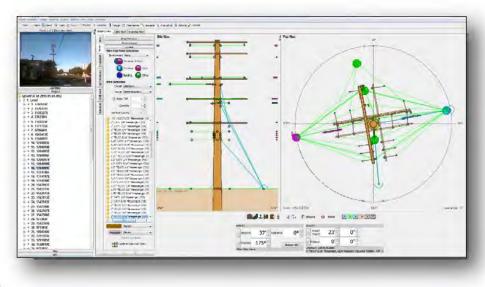
Attachment D

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#### Master Services Agreement - Pole-Load Analysis

Date of Award: April 2017 Scheduled Completion: December 2020 Contract Status: Ongoing

- Serviced from Regional Offices located in Southern CA as well as Regional Office in St. Louis, MO
- Pole-Load Analysis
  - Field Data Collection
  - SpidaCalc Analysis & SpidaMin Commitment
- 70,000 Poles
  - 1,000 Poles per Week Target
  - Submitted 2,000+ Poles per Week
- High Fire Assets
  - Insure PUC Compliance
  - Interface with Private Landowners & Governmental Entities
- Customer Interface
- PMO
  - Schedule Development
  - Benchmarking
  - SLA Compliance
  - Safety
  - Project Communication
- IT Systems Integration
  - Import Customer Data into Proprietary Software
  - Data Return/Refresh
  - Custom Reporting





# Master Services Agreement – Support for Substation Construction and Maintenance, Transmission and Distribution, and Edison Carrier Solutions (Telecommunications)

Date of Award: January 2009 Scheduled Completion: March 2021 Contract Status: Ongoing

- Substation Construction and Maintenance (SC&M):
  - Substation Maintenance and Construction Project Management, including Project Managers and Contract Construction Site Management and Supervision: Greenfield and brownfield new and modification projects
  - Substation Startup Commissioning: Implement customer and ULMS-developed startup testing processes, component and system performance testing up to 500kV systems
  - Electrical design engineering Quality Assurance reviews for Constructability and design issues
  - Contract Electrical Checkers (IBEW Qualified Electrical Workers) providing safety oversight of contractors working in vicinity of energized electrical sources
- Transmission and Distribution (T&D):
  - Project Management of T&D Projects, including construction and modification of new and existing SCE facilities and electrical systems
  - Telecommunications: Oversight and management of Transmission Division telecommunications new construction and system modifications, and civil inspections
  - Quality Assurance/Quality Control Inspections of new and modified components and systems
  - Safety Oversight: SCE and contractor safety oversight of transmission and substation work activities
  - Pole Program Analytics Degraded Pole Program
  - Air Operations Support and Coordination
  - Project Analytical Support
- Power Generation:
  - Maintenance support for San Onofre Nuclear Site's Independent Spent Fuel Storage Installation (ISFSI)
  - Maintenance support of the San Onofre Nuclear Site's 12kV electrical distribution system (ongoing Decommissioning Project)
  - Hydro, Steam, and Diesel Generating Facilities maintenance and construction management support
- Edison Carrier Solutions (Telecommunications): Contractor oversight and inspections of new construction and system modifications
- Material Coordination support to SC&M and T&D projects





# **PROJECT PROFILE: UNION PACIFIC RAILROAD**

WARNING

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ARC FLASH & SHOCK HAZARD Appropriate PPE Required

#### Arc Flash Hazard Analysis

Date of Award: December 2014 Scheduled Completion: June 2017 Contract Status: Completed

- Serviced from Regional Office located in Sumner, WA
- Arc Flash Hazard Analysis
  - Field-data Collection
    - Short-Circuit Study
    - Protective Device Coordination Study
  - Provided Warning Labels for All Energized Electrical System Equipment:
    - Arc flash boundaries
    - Shock hazard boundaries
    - Personal Protective Equipment (PPE)
  - Final report included the following elements:
    - All the modes of operations
    - One-line diagrams
    - TCC curves
    - All study reports:
      - o Short Circuit Analysis
      - o Equipment Evaluation
      - o Protective Device Coordination
      - o Arc Flash Hazard Analysis for worst-case scenario

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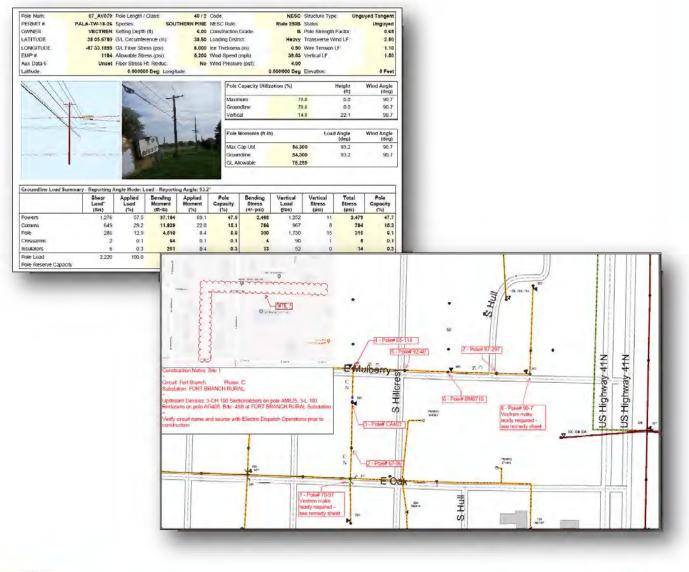
### **PROJECT PROFILE: VECTREN**

Attachment D

#### **Overhead Line Distribution Engineering & Design Services**

Date of Award: January 2012 Scheduled Completion: Open Contract Status: Ongoing

- Serviced from Regional Office located in St. Louis, MO
- Engineering and Technical Services
  - In-house Contract Engineering
  - Pole-Load Analysis
  - Post-Construction Audit
  - Make-Ready Engineering
  - AMI Box Attachment Study





# PROJECT PROFILE: WESTAR ENERGY

# Attachment D

# Worst-Performing Circuit, Field-Walk and Design

Date of Award: April 2018 Scheduled Completion: June 2018 Contract Status: Complete

- Serviced from Corporate Offices located in Kansas City, MO
- Distribution Engineering / Design Services
  - Completed field walkdown and inspections on 10 worst-performing circuits
  - Full inventory of structures, Sound and Bore performed
  - Design Packages created in Maximo for construction crews to remedy the circuits
  - Distribution OH improvement/maintenance
  - Deteriorated Pole Replacement's trouble circuits









# **PROJECT PROFILE: XCEL ENERGY**

# Master Staff Augmentation Services Agreement – Program and Construction Management

Date of Award: November 2017 Scheduled Completion: June 2020 Contract Status: Ongoing

- Serviced from Xcel Energy facilities in Denver, Colorado
- Support the relocation of Electric Transmission (115kV) and Distribution (13.2kV) facilities as related to large-scale City, State, and Federally-funded projects
  - Regional Transportation District FasTracks' Program Construction Management General Contractor (CMGC) and Design Build
  - Colorado Department of Transportation Design Build of highway US Route 36
  - City and County of Denver CMGC and Design Build
- Construction and Program Management
  - Coordinate company design and construction contractors; guide design, support capital construction, and perform conflict resolution verification
  - Interact with internal departments to coordinate efforts and streamline processes; planning, standards, operations, switching, supply chain, control, land rights, substations, transmission
  - Assemble and review company records; system maps, as-built drawings, property rights
  - SAP
    - Facilitate implementation of SAP for projects
  - Develop end-user reporting to track costs, workload, schedule, and progress







# **QUES BUSINESS PROFILE**

**Business Organization** 

**Contact Information** 

Phone: (816) 414-1100

Fax: (866) 404-0623

**Annual Sales Volume** 

2020 - \$132,200,000

2019 - \$127,118,142

2018 - \$112,869,498

2017 - \$79,775,099

2016 - \$84,320,175

**Bonding Reference** 

PO Box 1615

(908) 903-3423

Federal Insurance Company

Warren, NJ 07061-1615

**Insurance Reference** 

Philadelphia, PA 19106

436 Walnut Street

(215) 640-1000

NAICS

541990

Website: www.ques.com

State of Incorporation – MO

Number of Employees - 600 - 800

# **Company Name**

Quanta Utility Engineering Services, Inc. A Quanta Services Company NYSE: PWR

# **Corporate Office**

Quanta Utility Engineering Services, Inc. 4770 N. Belleview Avenue, Suite 100 Kansas City, MO 64116-2190

# Officers

President Vice President Vice President Vice President Chief Financial Officer Alyx Galan Steven Craig John Czaicki Tim Dougan Martin Fite

# **Banking Reference**

Bank of America, NA PO Box 846045 Dallas, TX 75284-6045 (713) 247-6134

# Insurance Reference

Old Republic Insurance Company 133 Oakland Avenue – P.O. Box 789 Greensburg, PA 15601 (800) 766-5673

# Dun & Bradstreet

14-278-8806

# Federal Tax ID

43-1939873

# **CONTACT INFORMATION**

# Primary Primary

Alyx Galan - President 4770 N. Belleview Avenue, Suite 100 Kansas City, MO 64116-2190 Phone: 805-657-0787 E-mail: agalan@ques.com

Steven Craig – Vice President 4770 N. Belleview Avenue, Suite 100 Kansas City, MO 64116-2190 Phone: 919-744-4542 E-mail: sacraig@ques.com Brendan Haynes – Director – Western Region 2315 W. Foothill Blvd Upland, California 91786 Phone: 951-538-4366 E-mail: bhaynes@gues.com

ACE Property & Casualty Insurance Company

Timothy Dougan – Vice President 4770 N. Belleview Avenue, Suite 100 Kansas City, MO 64116-2190 Phone: 816-215-5296 E-mail: tdougan@ques.com





# **Transmission Program References**

Ken Wells Vice President, Distribution Operations Pacific Gas & Electric (PG&E) Kjw3@pge.com 925-324-2148 Project – Wildfire Safety Inspection Program (WSIP)

Lori O'Neill, Principal Manager MPO Project Management Lori.ONeill@sce.com 949-922-5229 Project: Falcon Ridge PM

Lisa LeMaster SOUTHERN CALIFORNIA EDISON Transmission Southeast Division Central Orange County – Santa Ana Lisa.LeMaster@sce.com Cell Phone 714-380-1959 Currently Acting Grid Design and Performance Manager – Orange Grid

Chris E. Scott Manager, Electric Transmission Operations Eastern Transmission Grid Office 909-820-5541 Chris.Scott@sce.com Current Grid Design and Performance Manager – Eastern Grid

Elsie Acevedo Senior Manager Electric Transmission Operations - Metro East Grid Elsie.acevedo@sce.com 909-809-7352 Current Grid Manager – Metro East





WE ARE

QUANTA

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

# Form 10-K

(Mark One)

# ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2020

□ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

Commission File Number: 001-13831



# Quanta Services, Inc.

(Exact name of registrant as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

74-2851603

(I.R.S. Employer Identification No.)

2800 Post Oak Boulevard, Suite 2600 Houston, Texas 77056

(Address of principal executive offices, including zip code)

(713) 629-7600

(Registrant's telephone number, including area code)

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered	
Common Stock, \$0.00001 par value	PWR	New York Stock Exchange	

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes 🗵 No 🗌

Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act. Yes 🗆 No 🗹

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  $\square$  No  $\square$ 

Indicate by check mark whether the Registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the Registrant was required to submit such files). Yes 🗵 No 🗆

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer 🛛 Non-accelerated filer 🔅 Smaller reporting company 🔅 Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Indicate by check mark whether the Registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.

Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes 🗌 No 🗹

As of June 30, 2020 (the last business day of the Registrant's most recently completed second fiscal quarter), the aggregate market value of the Common Stock of the Registrant held by non-affiliates of the Registrant, based on the last sale price of the Common Stock reported by the New York Stock Exchange on such date, was \$5.3 billion.

#### As of February 23, 2021, the number of outstanding shares of Common Stock of the Registrant was 138,365,007. DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Registrant's Definitive Proxy Statement for the 2021 Annual Meeting of Stockholders are incorporated by reference into Part III of this Form 10-K.

# QUANTA SERVICES, INC. ANNUAL REPORT ON FORM 10-K For the Year Ended December 31, 2020 INDEX

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# Attachment D

### **Cautionary Statement About Forward-Looking Statements and Information**

This Annual Report on Form 10-K (Annual Report) includes forward-looking statements reflecting assumptions, expectations, projections, intentions or beliefs about future events that are intended to qualify for the "safe harbor" from liability established by the Private Securities Litigation Reform Act of 1995. You can identify these statements by the fact that they do not relate strictly to historical or current facts. They use words such as "anticipate," "estimate," "project," "forecast," "may," "will," "should," "could," "expect," "believe," "plan," "intend" and other words of similar meaning. In particular, these include, but are not limited to, statements relating to the following:

- Projected revenues, net income, earnings per share, margins, cash flows, liquidity, weighted average shares outstanding, capital expenditures, tax rates and other projections of operating or financial results;
- Expectations regarding our business or financial outlook;
- Expectations regarding opportunities, technological developments, competitive positioning, future economic and regulatory conditions and other trends in particular markets or industries;
- Expectations regarding the pandemic associated with the novel coronavirus disease that began in 2019 (COVID-19), including the continued and potential impact
  of the COVID-19 pandemic and of governmental responses to the pandemic on our business, operations, supply chain, personnel, financial condition, results of
  operations, cash flows and liquidity;
- Expectations regarding our plans and strategies, including plans, effects and other matters relating to the COVID-19 pandemic and our exit from our Latin American operations;
- The business plans or financial condition of our customers, including with respect to or as a result of the COVID-19 pandemic;
- The potential impact of commodity prices and commodity production volumes on our business, financial condition, results of operations and cash flows and demand for our services;
- The potential benefits from, and future financial and operational performance of, acquired businesses and our investments, including our investment in LUMA Energy, LLC (LUMA);
- Beliefs and assumptions about the collectability of receivables;
- The expected value of contracts or intended contracts with customers, as well as the scope, services, term or results of any awarded or expected projects;
- · The development of and opportunities with respect to future projects, including renewable energy projects and larger electric transmission and pipeline projects;
- Future capital allocation initiatives, including the amount, timing and strategies with respect to any future stock repurchases, and expectations regarding the declaration, amount and timing of any future cash dividends;
- The impact of existing or potential legislation or regulation;
- Potential opportunities that may be indicated by bidding activity or similar discussions with customers;
- The future demand for and availability of labor resources in the industries we serve;
- The expected realization of remaining performance obligations or backlog;
- The expected outcome of pending or threatened legal proceedings; and
- Possible recovery of pending or contemplated insurance claims, change orders and claims asserted against customers or third parties.

These forward-looking statements are not guarantees of future performance, involve or rely on a number of risks, uncertainties, and assumptions that are difficult to predict or are beyond our control, and reflect management's beliefs and assumptions based on information available at the time the statements are made. We caution you that actual outcomes and results may differ materially from what is expressed, implied or forecasted by our forward-looking statements and that any or all of our forward-looking statements may turn out to be inaccurate or incorrect. Those statements can be affected by inaccurate assumptions and by known or unknown risks and uncertainties, including risks and uncertainties described elsewhere herein and in Item 1A. *Risk Factors* in this Annual Report and as may be detailed from time to time in our other public filings with the Securities and Exchange Commission (SEC).

All of our forward-looking statements, whether written or oral, are expressly qualified by these cautionary statements and any other cautionary statements that may accompany such forward-looking statements or that are otherwise included in this report. Although forward-looking statements reflect our good faith beliefs at the time made, reliance should not be placed on forward-looking statements because they involve known and unknown risks, uncertainties and other factors, which may cause our actual results, performance or achievements to differ materially from anticipated future results, performance or achievements to reflect events or circumstances after the date of this report or otherwise.



### PART I

## ITEM 1. Business

### Overview

Quanta Services, Inc. (together with its subsidiaries, "Quanta," "we," "us" or "our") is a leading provider of specialty contracting services, delivering comprehensive infrastructure solutions for the electric and gas utility, communications, pipeline and energy industries in the United States, Canada, Australia and select other international markets.

Within each of the industries we serve, the services we provide include the engineering, construction, and repair and maintenance of infrastructure, such as electric power transmission and distribution networks; substation facilities; communications and cable multi-system operator networks; gas utility systems; pipeline transmission systems and facilities; and downstream industrial facilities. Our operations are decentralized and labor-intensive, and we rely on craft skilled labor personnel and experienced operators to successfully manage our day-to-day business. We also have an experienced management team, both at the executive level and within our subsidiaries, which we refer to as operating units. We operate a fleet of owned and leased trucks and trailers, support vehicles and specialty construction equipment, as well as various proprietary technologies that enhance our service offerings. We have a large and diverse customer base, including many of the leading companies in the utility, industrial, communications and energy markets.

The performance of our business generally depends on our ability to obtain contracts with customers and to effectively deliver the services provided under those contracts. Our services are typically provided pursuant to master service agreements, repair and maintenance contracts and fixed price and non-fixed price construction contracts. We offer comprehensive and diverse solutions on a broad geographic scale and have a solid base of long-standing customer relationships in each of the industries we serve. We believe our reputation for safety leadership, responsiveness and performance, geographic reach, comprehensive service offerings and financial strength have resulted in strong relationships with numerous customers, and we endeavor to develop and maintain strategic alliances and preferred service provider status with our customers.

We believe that our business strategies, along with our safety culture and financial resources, differentiate us from our competition and position us to benefit from future capital spending by our customers. Our strategies of expanding our portfolio of service offerings for existing and potential customers, increasing and enhancing our presence in core geographic markets, technological and training capabilities, promoting best practices and cross-selling services to our existing customers place us in the position to capitalize on opportunities and trends in the industries we serve and expand our operations to select new markets.

## Services

We report our results under two reportable segments: (1) Electric Power Infrastructure Solutions and (2) Underground Utility and Infrastructure Solutions. This structure is generally focused on broad end-user markets for our services. We operate primarily in the United States; however, we derived approximately 14.1%, 15.9% and 23.2% of our revenues from foreign operations, primarily in Canada and Australia, during the years ended December 31, 2020, 2019 and 2018.

*Electric Power Infrastructure Solutions.* Our Electric Power Infrastructure Solutions segment provides, among other things, comprehensive network solutions to customers in the electric power, communications and other industries. Services performed by the Electric Power Infrastructure Solutions segment generally include:

- the design, engineering, new construction, upgrade and repair and maintenance of electric power transmission and distribution infrastructure and substation facilities to support, among other things, utility customers' efforts to ensure the safety and reliability of the power grid and integrate renewable generation and the growing trend towards the electrification of transportation and other industries;
- · emergency restoration services, including the repair of infrastructure damaged by, among other things, inclement weather and wildfires;
- the energized installation, maintenance and upgrade of electric power infrastructure utilizing unique bare hand and hot stick methods and our proprietary robotic arm techniques;
- the installation of "smart grid" technologies on electric power networks;
- engineering and construction of substations, switchyards and transmission infrastructure to interconnect renewable energy generation, including solar, wind, hydro
  power and backup natural gas generation facilities;
- · engineering and construction of micro-grids, battery storage and solar generation facilities;

- comprehensive design and construction services to wireline and wireless communications companies, cable multi-system operators and other customers within the communications industry (including services in connection with 5G wireless deployment);
- · the design, installation, maintenance and repair of commercial and industrial wiring; and
- aviation services primarily for the utility industry, including the transportation of line workers, the setting of poles, and the stringing of wires.

This segment also includes a majority of the financial results of our training facility and our postsecondary educational institution, which specializes in pre-apprenticeship training, apprenticeship training and utility task training for electric workers, as well as training for the gas utility and communications industries. For additional information on this institution, see *Human Capital Resources - Employee Recruiting, Development and Training* 

Underground Utility and Infrastructure Solutions. Our Underground Utility and Infrastructure Solutions segment provides comprehensive infrastructure solutions to customers involved in the development, transportation, distribution, storage and processing of natural gas, oil and other products. Services performed by the Underground Utility and Infrastructure Solutions segment generally include:

- the design, engineering, new construction, upgrade and repair and maintenance of natural gas systems for gas utility customers;
- pipeline protection, integrity testing, rehabilitation and replacement;
- catalyst replacement services, high-pressure and critical-path turnaround services, instrumentation and electrical services, piping, fabrication and storage tank services to the midstream and downstream industrial energy complex;
- · engineering and construction services for pipeline systems, storage systems and compressor and pump stations; and
- trenching, directional boring and mechanized welding services related to the above services and in connection with our electric power infrastructure services.

To a lesser extent, this segment also designs, installs and maintains fueling systems and water and sewer infrastructure, fabricates pipeline support systems and related structures and facilities for the pipeline industry and provides services to the offshore energy market.

### **Recent Acquisitions**

We continue to evaluate, strategic acquisitions to broaden our customer base, expand our geographic area of operations, grow our portfolio of services and increase opportunities across our operations. During the year ended December 31, 2020, we acquired seven businesses that we believe support our strategic goals and enhance our ability to innovate and expand our services offerings to serve our customers. These acquisitions involved aggregate consideration of approximately \$351.7 million paid or payable in cash, subject to certain adjustments, 1,334,469 shares of Quanta common stock, which had a fair value of \$57.1 million as of the respective acquisition dates, and certain contingent consideration obligations. For additional information on our investments and acquisitions, see Notes 2, 4 and 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*.

### Puerto Rico Joint Venture

During the first half of 2020, a joint venture in which we own a 50% interest, LUMA Energy, LLC (LUMA), was selected for a 15-year operation and maintenance agreement to operate, maintain and modernize the approximately 18,000-mile electric transmission and distribution system in Puerto Rico. The operation and maintenance period is scheduled to begin following a transition period, which is expected to end in mid-2021 and during which we receive a fixed transition services fee. During the operation and maintenance period, LUMA will receive a fixed annual management fee, with the opportunity to receive additional annual performance-based incentive fees.

### **Customer Relationships**

We have a large and diverse customer base, including many of the leading companies in the industries we serve, and we have developed strong strategic alliances with numerous customers and strive to develop and maintain our status as a preferred service provider to our customers. For the year ended December 31, 2020, our largest customer accounted for 5% of our consolidated revenues and our ten largest customers accounted for 32% of our consolidated revenues. Representative customers include:

- American Electric Power Company, Inc.
- ATCO Electric
- Berkshire Hathaway, Inc.
- CenterPoint Energy, Inc.
- Comcast Corporation
- Dominion Energy, Inc.
- Duke Energy Corporation
- Edison International
- Enbridge Inc.
- Entergy Corporation
- Enterprise Products Partners L.P.
- Eversource Energy
- · Exelon Corporation

- FirstEnergy Corp.
- Fortis Inc.
- National Grid plc
- NextBridge Infrastructure, LP
- NextEra Energy, Inc.
- NiSource Inc.
- PG&E Corporation
- Puget Sound Energy, Inc.
- Sempra Energy
- The Southern Company
- TC Energy Corporation
- Valero Energy Corporation
- Verizon Communications Inc.

Our customers include utilities, communications, industrial and energy delivery companies, as well as governmental entities. We have estimated revenues by customer type as a percentage of total revenues below. Such estimates are based on management judgment and assumptions and are provided to show perceived trends in our customer types and should be considered directional in nature.

	2020	2019	2018
Utility	72 %	64 %	60 %
Communications	4 %	3 %	2 %
Industrial	13 %	15 %	14 %
Energy Delivery	6 %	14 %	17 %
Other	5 %	4 %	7 %
Total revenues	100 %	100 %	100 %

Customer types in the table above are defined as follows:

- Utility Customers that are electric and gas utilities;
- · Communications Customers that own and/or operate assets supporting delivery of data, communications and digital services;
- Industrial Customers that own and/or operate refinery, chemical and industrial plants and other commercial or manufacturing facilities;
- · Energy Delivery Customers that own and/or operate pipelines for the delivery of hydrocarbons; and
- · Other Customers that are not accurately described by the categories set forth above.

We believe utility, communications and industrial customers provide us with growth opportunities due to the long-term capital programs associated with these industries. Our opportunities and capital programs associated with energy delivery customers are dependent on the cyclicality of larger pipeline projects, and energy delivery and industrial customers have been negatively impacted by the currently challenged energy market and recent oil price volatility, as well as the exacerbating effect of the pandemic associated with the novel coronavirus disease (COVID-19).

We are a preferred service provider for many of our customers, which generally means we have met minimum standards for a specific category of service, maintained a high level of performance and agreed to certain payment terms and negotiated rates. We strive to maintain preferred status as we believe it provides us an advantage in the award of future work for the applicable customer. Furthermore, many of our strategic relationships with customers take the form of strategic alliance or long-

term maintenance agreements, which typically extend for an initial term and may include renewal options to extend the initial term. Strategic alliance agreements also generally state an intention to work together over a period of time and/or on specific types of projects, and many provide us with preferential bidding procedures.

Although we have an integrated marketing and business development strategy, management at each of our operating units is responsible for developing and maintaining successful long-term relationships with customers. Our operating unit management teams build upon existing customer relationships to secure additional projects and increase revenues. Many of these customer relationships are long-standing and are maintained through a partnering approach with centralized account management, which includes project evaluation and consulting, quality performance, performance measurement and direct customer contact. Additionally, operating unit management focuses on pursuing growth opportunities with prospective customers. We also encourage operating unit management to cross-sell services of our other operating units to their customers and coordinate with our other operating units to pursue projects, especially those that are larger and more complex. We believe our ability to provide services that cover a broad spectrum of our customers' needs and requirements is a significant differentiator. Our corporate-level business development and regional management groups support these activities by promoting and marketing our services for existing and prospective large national accounts, as well as projects that are capable of utilizing services from multiple operating units.

#### **Competition and Market Demand**

The markets in which we operate are highly competitive. We compete with other contractors in the geographic markets in which we operate, and several of our competitors are large companies that have significant financial, technical and marketing resources. In addition, there are relatively few barriers to entry into some of the industries in which we operate and, as a result, any organization that has adequate financial resources and access to technical expertise may become a competitor. A significant portion of our revenues is currently derived from unit price or fixed price agreements, and price is often an important factor in the award of such agreements. Accordingly, we could be underbid by our competitors. However, customers often consider other factors in choosing a service provider, including technical expertise and experience, safety ratings, financial and operational resources, geographic presence, industry reputation and dependability, which we expect to benefit larger contractors such as us. In addition, competition may lessen as industry resources, such as labor supplies, approach capacity. There can be no assurance, however, that our competitors will not develop the expertise, experience and resources to provide services that are superior in both price and quality to our services, or that we will be able to maintain or enhance our competitive position. We also face competition from the in-house service organizations of our existing or prospective customers, which employ personnel who perform some of the same types of services we provide. Although these companies currently outsource a significant portion of these services, there can be no assurance that they will continue to do so in the future or that they will not acquire additional in-house capabilities.

For further information regarding the effects of competition on our business and trends in market demand affecting our business, see *Risks Related to Operating Our Business* and *Risks Related to Our Industries* in Item 1A. *Risk Factors* of this Annual Report and *Overview - Business Environment* and *Results of Operations* in Item 7. *Management's Discussion and Analysis of Financial Condition* of this Annual Report.

# **Material Resources**

We depend on the availability of certain equipment, including specialty vehicles, to perform our services. We operate a fleet of owned and leased bucket trucks, digger derricks, trucks and trailers, support vehicles and specialty construction equipment, such as sidebooms, dozers, backhoes, excavators, trenchers, generators, boring machines, cranes, robotic arms, wire pullers, tensioners and helicopters. As of December 31, 2020, the total size of the rolling stock fleet was approximately 51,000 units. Additionally, our customers typically supply most or all of the raw materials required for each project. However, pursuant to certain of our contracts, we may procure all or part of the raw materials required. To the extent we continue to expand our comprehensive engineering, procurement and construction offerings, the cost of materials may become a proportionately larger component of our consolidated cost of services.

While the ongoing COVID-19 pandemic has resulted in significant supply chain disruptions globally and within the United States, we have not experienced, and do not anticipate experiencing, any significant procurement difficulties, as we purchase our required materials and equipment from a variety of sources. However, a number of factors that we may not be able to predict or control could result in increased costs for these materials, including the continued impact of the ongoing COVID-19 pandemic, as well as global trade relationships and other general market and political conditions. For further information regarding the risks associated with availability of materials, see *Risks Related to Operating Our Business* in Item 1A. *Risk Factors* of this Annual Report.

### Seasonality and Cyclicality

Our revenues and results of operations can be subject to seasonal and other variations. These variations are influenced by, among other things, weather, customer spending patterns, bidding seasons, receipt of required regulatory approvals, permits and rights of way, project timing and schedules, and holidays. Typically, our revenues are lowest in the first quarter of the year because cold, snowy or wet conditions can create challenging working environments that are more costly for our customers or cause delays on projects. In addition, infrastructure projects often do not begin in a meaningful way until our customers finalize their capital budgets, which typically occurs during the first quarter. Second quarter revenues are typically higher than those in the first quarter, as some projects begin, but continued cold and wet weather can often impact productivity. Third quarter revenues are typically the highest of the year, as a greater number of projects are underway and operating conditions, including weather, are normally more accommodating. Generally, revenues during the fourth quarter are lower than the third quarter but higher than the second quarter, as many projects are completed and customers often seek to spend their capital budgets before year end. However, the holiday season and inclement weather can sometimes cause delays during the fourth quarter, reducing revenues and increasing costs. These seasonal impacts are typical for our U.S. operations, but seasonality for our international operations may differ. For additional information on seasonality and cyclicality, please see *Significant Factors Impacting Results* within Item 7. *Management's Discussion and Analysis of Financial Condition and Results of Operations*.

## Regulation

Compliance with numerous regulations has a material effect on our operations. Our operations are subject to various federal, state, local and international laws and regulations including:

- · licensing, permitting and inspection requirements applicable to contractors and engineers;
- · regulations relating to worker safety and environmental protection;
- · permitting and inspection requirements applicable to construction projects;
- · wage and hour regulations and regulations associated with our collective bargaining agreements and unionized workforce;
- · regulations relating to transportation of equipment and materials, including licensing and permitting requirements, as well as aviation activities;
- building and electrical codes;
- applicable U.S. and non-U.S. anti-corruption regulations;
- · immigration regulations applicable to U.S. and cross-border employment; and
- special bidding, procurement and other requirements on government projects.

We believe that we are in compliance with all material licensing and regulatory requirements that are necessary to conduct our operations. Our failure to comply with applicable regulations could result in substantial fines or revocation of our operating licenses, as well as give rise to termination or cancellation rights under our contracts or disqualify us from future bidding opportunities. Additionally, the overall regulatory environment can impact our customers' projects and demand for our services, and in connection with the current heightened regulatory environment and increased regulatory environment and challenges, our customers have experienced delays, reductions in scope and cancellations of projects. We are also subject to numerous federal, state, local and international environmental laws and regulations governing our operations, including the handling, transportation and disposal of non-hazardous and hazardous substances and wastes, as well as emissions and discharges into the environment, including discharges to air, surface water, groundwater and soil. We also are subject to laws and regulations that impose liability and cleanup responsibility for releases of hazardous substances into the environment. Under certain of these laws and regulations, liability can be imposed for cleanup of previously owned or operated properties or currently owned properties at which hazardous substances or wastes were discharge or disposal. The presence of contamination from such substances or wastes could also interfere with ongoing operations or adversely affect our ability to sell or lease the property or use it as collateral for financing. In addition, we could be held liable for significant penalties and damages under certain environmental laws and regulations or be subject to revocation of certain licenses or permits, which could materially and adversely affect our business, results of operations and cash flows. Our contracts with customers may also impose liability on us for environmental issues that arise thro

result, from time to time, we may incur costs and obligations for correcting environmental noncompliance matters and for remediation at or relating to certain of our properties. We believe that we are in substantial compliance with our environmental obligations and that any such obligations will not have a material adverse effect on our business or financial performance.

For further information regarding the effects of regulation on our business, see Risks Related to Operating Our Business and Risks Related Regulation and Compliance in Item 1A. Risk Factors of this Annual Report and Overview - Business Environment in Item 7. Management's Discussion and Analysis of Financial Condition of this Annual Report.

#### **Human Capital Resources**

We believe our employees are our most important assets, and we focus significant attention and resources on attracting, developing and retaining talented and experienced individuals. We believe our industry-leading training and safety programs are a strength and competitive differentiator with not only our current and potential employees, but with our customers, which have high safety standards and are increasing the amount of their outsourced infrastructure services. Our operations are decentralized and labor-intensive, and we rely on craft skilled labor personnel and experienced operators to successfully manage our day-to-day business, as well as corporate management and professional personnel to coordinate and execute our business strategies, allocate capital and coordinate equipment usage, and facilitate certain centralized administrative services.

# **Employee** Profile

As of December 31, 2020, we had approximately 35,800 employees, consisting of approximately 7,600 salaried employees, including executive officers, professional and administrative staff, project managers and engineers, job superintendents and field personnel, and approximately 28,200 hourly employees, the number of which fluctuates depending upon the number and size of the projects that are ongoing and planned at any particular time. As of December 31, 2020, we had approximately 29,700 U.S. employees and approximately 6,100 non-U.S. employees, with the majority of our non-U.S. employees based in Canada. Additionally, approximately 34% of our employees at December 31, 2020 were covered by collective bargaining agreements, which require the payment of specified wages, the observance of certain workplace rules and the payment of certain amounts to multiemployer pension plans and employee benefit trusts. These collective bargaining agreements have varying terms and expiration dates, and the majority contain provisions that prohibit work stoppages or strikes, even during specified negotiation periods relating to agreement renewals, and provide for binding arbitration dispute resolution in the event of prolonged disagreement.

### **Employee Safety**

Performance of our services requires the use of heavy equipment and exposure to inherently hazardous conditions. In response to these inherent hazards and as part of our commitment to the safety of our employees, customers and third parties, our corporate and operating unit management personnel have established safety programs, policies and procedures and ongoing training requirements for our employees and have also developed and implemented critical safety equipment and innovations. For example, on our project sites we have implemented emergency response plans, first aid training and automated external defibrillators, which have helped save the lives our employees and bystanders. We have also continued to invest significant resources in our safety training facilities, including the Quanta Advanced Training Center located in Texas, and our safety monitoring tools, including fleet management software. Our operating units also develop and share best practices for safety policies and practices, and we have an established program for onboarding newly acquired companies and working with them to augment their existing safety practices as necessary.

Furthermore, during the COVID-19 pandemic, the majority of our operations have continued, as they have been deemed essential to critical infrastructure. In response to this new operating environment, we have implemented additional safety protocols and procedures to protect the health and safety of our employees, such as the adoption of specialized training initiatives and the utilization of additional protective equipment for our employees operating in the field and additional sanitation measures for our offices, vehicles and equipment. We also reduced non-essential business travel, applied work-from-home policies where appropriate and developed other human resource guidance to help employees. We have not experienced any meaningful impact on the availability of our workforce or key personnel as a result of the COVID-19 pandemic.

## Employee Recruiting, Development and Training

Our success depends on our ability to attract, develop and retain highly qualified employees, including craft skilled labor, engineers, architects, designers, management and professional and administrative employees.

*Craft Skilled Labor.* Our industry is experiencing a shortage of journeyman linemen and specialty craft labor in certain geographic areas. Furthermore, the cyclical nature of the energy industry can create shortages of qualified labor in those markets during periods of high demand. In order to take advantage of available opportunities and successfully implement our long-term strategy, we must be able to employ, train and retain the necessary skilled personnel. As a result, we support and



utilize various training and educational programs and have developed additional company-wide and project-specific employee training and educational programs.

We own and operate Northwest Lineman College, which provides training programs for the electric power infrastructure, communications and underground utility and infrastructure industries and specializes in pre-apprenticeship training, apprenticeship training and specialized utility task training for electric workers. At our Quanta Advanced Training Center, we have also continued to invest in our internal education and training capabilities for beginning linemen and have added lead and cable splicing and directional drilling and gas distribution to our existing energized electric power and pipeline integrity training. These programs provide classroom and on-the-job training programs and allow us to train employees in a controlled environment without the challenges of limited structure access and utility constraints.

Additionally, we have entered into strategic relationships with universities, the military and unions in order to attract potential employees and develop our workforce. For example, our operating units performing more sophisticated and technical jobs utilize, when applicable, training programs provided by the International Brotherhood of Electrical Workers/National Electrical Contractors Associations (IBEW/NECA) Apprenticeship Program, training programs sponsored by the four trade unions administered by the Pipe Line Contractors Association (PLCA), apprenticeship training programs sponsored by the Canadian Union of Skilled Workers (CUSW) or our equivalent programs. Certain of our operating units have also established apprenticeship training programs approved by the U.S. Department of Labor that prescribe equivalent training requirements for employees who are not otherwise subject to the requirements of the IBEW/NECA Apprenticeship Program. In addition, the Laborers International Union of North America, the International Brotherhood of Teamsters, the United Association of Plumbers and Pipefitters and the International Union of Operating Engineers have training programs specifically designed for developing and improving the skills of their members who work in the pipeline construction industry. Our operating units also share best practices for training and educational programs.

For additional information on the risks associated with labor resources in our industries, see Risks Related to Operating Our Businessin Item 1A. Risk Factors of this Annual Report and Overview - Business Environment in Item 7. Management's Discussion and Analysis of Financial Condition of this Annual Report.

Management and Professional Personnel. Due to our decentralized operating structure, significant decision-making authority resides with our operating unit management, and our corporate management and administrative personnel are relied upon to allocate capital and communicate, coordinate and help execute our business strategies. We have also implemented enterprise-wide talent development and succession planning programs designed to identify and develop future and/or replacement candidates for key positions. For example, we have developed and administer a succession program with respect to our executive officers and senior operating unit personnel, which is reviewed and/or overseen by our Board of Directors.

### **Compensation and Benefits**

Our compensation programs are generally designed to align employee compensation with market practices and our performance, as well as provide the proper incentives to attract, retain and motivate employees. With respect to our executive officers, operating unit management, other senior leadership and corporate employees, compensation programs consist of both fixed and variable components. The fixed portion is generally set at market levels, with variable compensation designed to reward employees based on company performance. In connection with these compensation programs, we also grant stock-based compensation to management and key operations personnel at the majority of our operating units, which we believe helps to align incentives throughout our decentralized organization. We also enter into employment agreements with our executive officers and certain other key personnel. For additional information regarding our executive compensation, please see the information required in Item 11. *Executive Compensation*, which will be incorporated by reference to our definitive proxy statement related to our 2021 Annual Meeting of Stockholders.

We also provide additional benefits to our employees. For example, we provide health, welfare and benefit plans for employees who are not covered by collective bargaining agreements, and we maintain a 401(k) plan pursuant to which eligible U.S. employees who are not provided retirement benefits through a collective bargaining agreement may make contributions through a payroll deduction and to which we make certain matching contributions.

#### Ethics and Compliance

All of our employees are subject to Quanta's Code of Ethics and Business Conduct, which includes guidance and requirements concerning, among other things, general business ethics, including policies concerning the environment, conflicts of interest, anti-corruption, harassment and discrimination, data security and privacy, and insider trading, and Quanta's Anti-Bribery & Corruption Policy, which includes guidance and requirements concerning, among other things, interactions with government officials; provision of gifts, entertainment and hospitality; due diligence on certain high-risk service providers; and charitable and political contributions. Training with respect to these policies is conducted as part of our comprehensive ethics and compliance training program.

#### **Climate-Related Impacts**

While the potential impact of climate-related changes on our operations is uncertain, management considers climate-related risks and opportunities in connection with its long-term strategic planning and short-term deployment of resources. Concerns about the impact of climate change have resulted, and are expected to continue to result, in technological advancements and market developments that impact our business. For example, utility customers are transitioning toward more sustainable sources of power generation, such as renewables, which can provide additional opportunities for our electric power services. Additionally, increased electrification of new technologies may lead to continued and additional demand for new and expanded electric power infrastructure and reengineering of existing electric power infrastructure. However, concerns about climate change could also result in potential new regulations, regulatory actions or requirements to fund energy efficiency activities, as well as decreased demand for refined products, which in turn could negatively impact our customers and demand for certain of our underground utility and infrastructure services. We also maintain a large fleet of vehicles and a significant amount of construction machinery, all of which could be negatively impacted by new regulations related to greenhouse gas emissions from such sources or increases in fuel prices.

Additionally, climate change may result in, among other things, increasing temperatures, rising sea levels and changes to patterns and intensity of wildfires, hurricanes, other storms and severe weather-related events and natural disasters. Our operating results are significantly influenced by weather, and these changes could significantly impact our future operating results. A greater amount of rainfall, snow, ice or other less accommodating weather conditions, as well as an increase in severe weather events and natural disasters, could reduce our productivity or result in project delays or cancellations. However, an increase in certain of these events, such as hurricanes, tropical storms, wildfires, blizzards and ice storms, can create a greater amount of emergency restoration service work and increase customer spending on modernization, grid hardening and other infrastructure improvements (e.g., fire hardening programs in California and the western United States and storm hardening in coastal regions). Additionally, changes in climate could result in more accommodating weather patterns for greater periods of time in certain areas, which may enable us to increase our productivity. Climate change may also affect the conditions in which we operate, and in some cases, expose us to potentially increased liabilities associated with those environmental conditions. For example, severe drought and high wind speeds in the western United States have increased the risk of wildfires during certain protions of the year, which in turn has exposed us and other contractors to increased risk of liability in connection with our operations in those locations. These conditions have also resulted in increased costs for wildfire-related third-party insurance and reduced the amount insurance carriers are willing to make available under such policies.

For additional information regarding the risks and opportunities described above, see Item 1A. Risk Factors, Overview - Business Environmentand Overview - Significant Factors Impacting Results in Item 7. Management's Discussion and Analysis of Financial Condition of this Annual Report.

#### **Risk Management and Insurance**

We maintain insurance coverage from third-party insurers as part of our overall risk management strategy and because some of our contracts require us to maintain specific insurance coverage limits. We are insured for, among other things, employer's liability, workers' compensation, auto liability, aviation and general liability claims. Deductibles for the employer's liability and workers' compensation programs are \$5.0 million per occurrence, and deductibles for the auto liability and general liability programs are \$15.0 million per occurrence. We manage and maintain a portion of our casualty risk through our wholly-owned captive insurance company, which insures all claims up to the amount of the applicable deductible of our third-party insurance programs. In connection with our casualty insurance programs, we are required to issue letters of credit to secure our obligations. We also have employee health care benefit plans for most employees not subject to collective bargaining agreements, of which the primary plan is subject to a deductible of \$0.8 million per claimant per year.

Losses under our insurance programs are accrued based upon our estimate of the ultimate liability for claims reported and an estimate of claims incurred but not reported, with assistance from third-party actuaries. These insurance liabilities are difficult to assess and estimate due to unknown factors, including the severity of an injury, the extent of damage, the determination of our liability in proportion to other parties and the number of incidents not reported. The accruals are based upon known facts and historical trends, and management believes such accruals are adequate.

We renew our insurance policies on an annual basis, and therefore deductibles and levels of insurance coverage may change in future periods. In addition, insurers may cancel our coverage or determine to exclude certain items from coverage, or we may elect not to obtain certain types or incremental levels of insurance based on the potential benefits considered relative to the cost of such insurance, or coverage may not be available at reasonable and competitive rates. In any such event, our overall risk exposure would increase, which could negatively affect our results of operations, financial condition and cash flows. For example, due to the increased occurrence and future risk of wildfires in California and other areas in the western United States, Australia and other locations, insurers have reduced coverage availability and increased the cost of insurance coverage for such events in recent years. As a result, our level of insurance coverage for wildfire events decreased, including in connection with our annual insurance renewals in the spring of 2020 and 2019, and our levels of coverage may not be sufficient to cover

potential losses. Our third-party insurers could also decide to further reduce or exclude coverage for wildfires or other events in connection with our insurance renewal in the spring of 2021 and/or in the future. In any such event, our overall risk exposure would increase, which could negatively affect our results of operations, financial condition and cash flows.

### Website Access and Other Information

Our website address is *www.quantaservices.com*. Interested parties may obtain free electronic copies of our Annual Reports on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and any amendments to these reports through our website under the heading *Investor Relations / SEC Filings* or through the website of the Securities and Exchange Commission (the SEC) at *www.sec.gov*. These reports are available on our website as soon as reasonably practicable after we electronically file them with, or furnish them to, the SEC. We will also make available to any stockholder, without charge, copies of our Annual Report on Form 10-K as filed with the SEC. For copies of this or any other Quanta publication, stockholders may submit a request in writing to Quanta Services, Inc., Attn: Corporate Secretary, 2800 Post Oak Blvd., Suite 2600, Houston, Texas 77056, or by phone at (713) 629-7600.

Investors and others should note that we announce material financial information and make other public disclosures of information regarding Quanta through SEC filings, press releases, public conference calls, and our website. We also utilize social media to communicate this information, and it is possible that the information we post on social media could be deemed material. Accordingly, we encourage investors, the media and others interested in our company to follow Quanta, and review the information we post, on the social media channels listed on our website in the *Investors Relations / Social Media* section.

This Annual Report, our website and our social media channels contain information provided by other sources that we believe is reliable. We cannot provide assurance that the information obtained from other sources is accurate or complete. No information on our website or our social media channels is incorporated by reference herein.

#### ITEM 1A. Risk Factors

Our business is subject to a variety of risks and uncertainties, including, but not limited to, the material risks and uncertainties described below. The matters described below are not the only risks and uncertainties facing our company, and risks and uncertainties not known to us or not described below also may impair our business operations. If any of the following risks actually occur, our business, financial condition, results of operations and cash flows can be negatively affected, the value of securities we have issued could be adversely affected, resulting in stockholders and purchasers losing part or all of their investment, and we may not be able to achieve our strategic initiatives or expectations. This Annual Report also includes statements reflecting assumptions, expectations, projections, intentions or beliefs about future events that are intended as "forward-looking statements" under the Private Securities Litigation Reform Act of 1995 and should be read in conjunction with the section entitled *Cautionary Statement About Forward-Looking Statements and Information.* 

## **Summary Risk Factors**

The following is a summary of some of the material risks and uncertainties that could materially adversely affect our business, financial condition and results of operations. You should read this summary together with the more detailed description of each risk factor contained below.

#### **Risks Related to Operating Our Business**

- Our operating results may vary significantly from quarter to quarter.
- The COVID-19 pandemic and related economic repercussions have materially affected our and our customers' businesses, and the duration and extent of the negative
  impact resulting from the pandemic remains uncertain.
- A variety of issues could affect the timing or profitability of our projects, and could result in, among other things, project termination or payment of liquidated damages.
- Our business is subject to operational hazards (e.g., wildfires, explosions) that can result in significant liabilities, and we may not be insured against all potential liabilities.
- Unavailability or cancellation of third-party insurance would increase our risk exposure and disrupt our operations, and our estimates of losses under our insurance
  programs could prove inaccurate.
- Our business is labor-intensive, and we may be unable to attract and retain qualified employees or we may incur significant costs if we are unable to efficiently manage our workforce.
- A loss of business from certain significant customers could have a material effect on our business.
- Our financial results are based on estimates and assumptions that may differ from actual results.
- We may fail to adequately recover on contract change orders or claims against customers.
- Changes in estimates related to revenues and costs under customer contracts could result in a reduction or elimination of revenues or profits or the recognition of losses.
- During the ordinary course of our business, we are subject to lawsuits, claims and other legal proceedings, as well as bonding claims and related reimbursement requirements.



- · We may be unsuccessful in generating internal growth.
- · Many of our contracts may be canceled or suspended on short notice or may not be renewed or replaced.
- The nature of our business exposes us to warranty, engineering and other related claims.
- · We can incur liabilities or suffer negative financial or reputational impacts due to health and safety matters.
- Disruptions or failure to adequately protect our information technology systems could materially affect our business or result in harm to our reputation.
- · A deterioration of our reputation or brands could have an adverse impact on our business.
- Our financial results and financial condition may be adversely affected as a result of asset impairments.
- Our inability to successfully execute our acquisition strategy may adversely impact our growth.
- Our decentralized management infrastructure could negatively impact our business.
- The loss of key personnel could disrupt our business.
- Our investments and joint ventures expose us to risks and may result in conflicts of interest.
- · We extend credit to, and enter into other financing arrangements with customers, which subject us to credit and investment risk.
- Risks associated with operating in international markets could harm our business and prospects.
- · Limitations on the availability of suppliers, subcontractors and equipment manufacturers could adversely affect our business.
- An increase in the price or restrictions on the use of fuel, materials or equipment could adversely affect our business.
- Increasing scrutiny and expectations with respect to corporate sustainability practices may impose additional costs on us or expose us to reputational or other risks.

## **Risks Related to Our Industries**

- Negative economic and market developments, including low commodity production volumes and prices, can adversely impact our customers.
- Our revenues and profitability can be negatively impacted if customers encounter financial difficulties or disputes arise with our customers.
- Our business is highly competitive and competitive pressures could negatively impact our business.
- Technological advancements and other market conditions could negatively affect our business.

## Risks Related to Regulation and Compliance

- Regulatory requirements applicable to our business and potential changes related to those requirements may adversely affect our business.
- Our unionized workforce and related obligations may adversely affect our operations.
- · We could be adversely affected by failure to comply with laws applicable to our foreign activities.
- Compliance with tax laws could adversely affect our financial results.
- Our failure to comply with environmental laws and regulations could result in significant liabilities and costs.
- · Certain specific regulatory requirements are applicable to us and certain of our subsidiaries, which could materially impact our business.
- · Governmental opportunities could subject us to increased regulation and costs and may pose additional risks relating to funding and compliance.
- Immigration laws, including inability to verify employment and restrictions on movement, could adversely impact our business.

## **Risk Related to Financing Our Business**

- We may not have access to sufficient funding to finance desired growth and operations.
- We have a significant amount of debt that can negatively impact our business.
- We may not have sufficient cash flow to service our debt.
- Our variable rate indebtedness subjects us to interest rate risk.
- We may be unable to compete for projects if we cannot obtain surety bonds, letters of credit or bank guarantees.
- A downgrade in our debt rating could restrict our ability to access capital markets.

#### **Risks Related to Our Common Stock**

- Our sale or issuance of additional common stock or other equity securities could be dilutive to each stockholder's ownership interest or affect the market price of our common stock.
- There can be no assurance that we will declare or pay future dividends on our common stock.
- · Certain provisions of our governing documents could make an acquisition of Quanta more difficult.

### **Risks Related to Operating Our Business**

## Our operating results may vary significantly from quarter to quarter.

Our business can be highly cyclical and is subject to seasonality and other factors that can result in significantly different operating results from quarter to quarter, and therefore our results in any particular quarter may not be indicative of future results. Our quarterly results have been and may in the future be materially and/or adversely affected by, among other things:

- the timing and volume of work we perform and our performance with respect to ongoing projects, including as a result of project delays, reductions in project scope, project terminations or cancellations, and agreement terminations and expirations;
- increases in project costs that result from, among other things, natural disasters and emergencies, adverse weather conditions or events, legal challenges, permitting, regulatory or environmental processes, or inaccurate project cost estimates;
- variations in the size, scope, costs and margins of ongoing projects, as well as the mix of our customers, contracts and business;
- fluctuations in economic, political and market conditions on a regional, national or global basis, including potential regulatory, legislative and policy changes resulting from the 2020 U.S. congressional and presidential elections;
- pricing pressures as a result of competition;
- · changes in the budgetary spending patterns or strategic plans of customers or governmental entities;
- liabilities and costs incurred in our operations that are not covered by, or that are in excess of, our third-party insurance or indemnification rights, including significant liabilities that arise from the inherently hazardous conditions of our operations (e.g., explosions, fires) and the operations of our subcontractors, and which could be exacerbated by the geographies in which we operate;
- disputes with customers or delays and payment risk relating to billing and payment under our contracts and change orders, including customers affected by the
  volatility of commodity prices or production or that have filed for bankruptcy protection;
- the resolution of, or unexpected or increased costs associated with, pending or threatened legal proceedings, indemnity obligations, multiemployer pension plan obligations (e.g., withdrawal liability) or other claims;
- restructuring, severance and other costs associated with, among other things, winding down certain operations and exiting markets, including our Latin American operations;
- estimates and assumptions in determining our financial results, remaining performance obligations and backlog, including the timing and significance of impairments of long-lived assets, equity or other investments, receivables, goodwill or other intangible assets;
- · significant fluctuations in foreign currency rates;
- the recognition of tax impacts related to changes in tax laws or uncertain tax positions; and
- the timing and magnitude of costs we incur to support our operations or growth internally or through acquisitions.

# The effects of the COVID-19 pandemic and related economic repercussions have materially affected how we and our customers are operating our businesses, and the duration and extent to which this will negatively impact our future results of operations and overall financial performance remains uncertain.

The COVID-19 pandemic has negatively impacted the global economy, disrupted consumer spending and global supply chains, and created significant volatility and disruption of financial markets. We have experienced some resulting disruptions to our business operations, and we expect the COVID-19 pandemic could continue to have a material adverse impact on our business and financial performance. Specifically, we have been negatively impacted by the COVID-19 pandemic as a result of the shelter-inplace restrictions and work disruptions in some of our service areas creating disruptions to portions of our operations, particularly in major metropolitan markets that have been meaningfully impacted by the pandemic and in Latin America. We have also experienced permitting and regulatory delays attributable to the COVID-19 pandemic. Additionally, restrictions on operations related to industrial facilities, as well as reduced demand for refined products, have resulted in suspensions and delays related to our high-pressure and critical-path turnaround services to the downstream and midstream energy markets. In addition to these current dynamics, the COVID-19 pandemic may create or exacerbate risks related to our operations and regulatory and compliance matters, including as a result of:



- evolving governmental guidance or requirements, including travel and movement restrictions, that continue to impact our ability to perform services or complete
  projects in accordance with required delivery schedules, which could result in additional costs or penalties (e.g., liquidated damages);
- additional delays with respect to permitting and regulatory matters and additional project deferrals, delays, and cancellations and changes in customer spending
  patterns and strategic plans as a result of, among other things, prolonged decreases in energy demand, lack of available financing for our customers' businesses or
  termination of, or force majeure events arising under, existing customer agreements;
- governmental guidance or requirements, including work-from-home policies, or potential illness that negatively impact the availability or productivity of our key
  personnel or a significant number of employees or cause other disruptions to our business, corporate governance or financial reporting processes;
- increased payment risk associated with customers experiencing financial difficulties (including bankruptcy) and an increase in disputes with customers relating to billing and payment under contracts and change orders;
- · potential liabilities and reputational harm related to occupational health and safety matters;
- · our inability to execute our business strategy, including with respect to certain capital investments such as acquisitions, investments and service offering expansions;
- · limitations on the ability of our suppliers, vendors and subcontractors to perform;
- · additional impairment charges related to goodwill, other intangible assets, other long-lived assets and investments;
- additional costs associated with restructuring, severance and related matters or other increased employment-related costs (e.g., workers' compensation insurance claims); and
- · an increase in cyber-attacks and attempted intrusions into our information technology systems as a result of, among other things, increased reliance on such systems.

The extent of the impact of the COVID-19 pandemic on our business and financial performance, including our ability to execute our near-term and long-term business strategies and initiatives in the expected time frame, will depend on future developments, including the duration and severity of the pandemic, the resulting governmental and other measures implemented to address the pandemic and the development and availability of effective treatments and vaccines, which are uncertain and cannot be predicted. As a result, the ultimate impact of the COVID-19 pandemic is difficult to predict, and the pandemic may continue to materially impact our business, financial condition, results of operations or cash flows.

# A variety of issues could affect the timing or profitability of our projects, which may result in additional costs to us, reductions or delays in revenues, the payment of liquidated damages or project termination.

Our business is dependent in part upon projects that can be cyclical in nature and are subject to risks of delay or cancellation. The timing of or failure to obtain contracts, delays in awards of, start dates for or completion of projects and the cancellations of projects can result in significant periodic fluctuations in our business, financial condition, results of operations and cash flows. Many of our projects involve challenging engineering, permitting, procurement and construction phases that occur over extended time periods, sometimes several years, and we have encountered and may in the future encounter project delays, additional costs or project performance issues as a result of, among other things:

- inability to meet project schedule requirements or achieve guaranteed performance or quality standards for a project, which can result in increased costs, through
  rework, replacement or otherwise, or the payment of liquidated damages to the customer or contract termination;
- · failure to accurately estimate project costs or accurately establish the scope of our services;
- failure to make judgments in accordance with applicable professional standards (e.g., engineering standards);
- unforeseen circumstances or project modifications not included in our cost estimates or covered by our contract for which we cannot obtain adequate compensation, including concealed or unknown environmental, geological or geographical site conditions and technical problems such as design or engineering issues;
- changes in laws or permitting and regulatory requirements during the course of our work (e.g., federal district court ruling vacating the U.S. Army Corps of Engineers Clean Water Act Section 404 Nationwide Permit 12);
- delays in the delivery or management of design or engineering information, equipment or materials;
- our or a customer's failure to timely obtain permits or rights of way or meet other permitting, regulatory or environmental requirements or conditions;

- · schedule changes;
- natural disasters or emergencies, including wildfires and earthquakes, as well as significant weather events (e.g., hurricanes, tropical storms, tornadoes, floods, droughts, blizzards and extreme temperatures) and adverse or unseasonable weather conditions (e.g., prolonged rainfall or snowfall, early thaw in Canada and the northern United States);
- · difficult terrain and site conditions where delivery of materials and availability of labor are impacted or where there is exposure to harsh and hazardous conditions;
- · protests, legal challenges or other political activity or opposition to a project;
- other factors such as terrorism, military action and public health crises (e.g., the COVID-19 pandemic);
- · changes in the cost of equipment, commodities, materials or labor; and
- delay or failure to perform by suppliers, subcontractors or other third parties, or our failure to coordinate performance of such parties, as approximately 15% to 20% of our work is subcontracted to other service providers.

Many of these difficulties and delays are beyond our control and can negatively impact our ability to complete the project in accordance with the required delivery schedule or achieve our anticipated margin on the project. Delays and additional costs associated with delays may be substantial and not recoverable from third parties, and in some cases, we may be required to compensate the customer for such delays, including in circumstances where we have guaranteed project completion or performance by a scheduled date and incur liquidated damages if we do not meet such schedule.

Furthermore, we generate a significant portion of our revenues under fixed price contracts, including contracts for projects where we provide engineering, procurement and construction (EPC) services (e.g., large electric transmission and pipeline projects, facility and terminal projects), and we have strategically expanded these service offerings in recent years. These contracts often involve complex pricing, scope of services and other bid preparation components that require challenging estimates and assumptions on the part of our personnel, which increases the risk that costs incurred on such projects can vary, sometimes substantially, from our original estimates.

To the extent our costs on a project exceed our revenues, we incur a loss. Additionally, performance difficulties can result in project cancellation by a customer and damage to our reputation or relationship with a customer, which can adversely affect our ability to secure new contracts. As a result, additional costs or penalties, a reduction in our productivity or efficiency or a project termination in any given period can have a material adverse effect on our business, financial condition, results of operations and cash flows. For example, as discussed in further detail in *Legal Proceedings* within Note 14 of the Notes to Consolidated Financial Statements in Item 8.*Financial Statements and Supplementary Data*, the termination of a telecommunications project in Peru resulted in a \$79.2 million charge to earnings in the second quarter of 2019.

# Our business is subject to operational hazards, including, among others, wildfires and explosions, that can result in significant liabilities and that may be exacerbated by certain geographies and locations where we perform services, and we may not be insured against all potential liabilities.

Due to the nature of services we provide and the conditions in which we and our customers operate, our business is subject to operational hazards and accidents that can result in significant liabilities. These operational hazards include, among other things, electricity, fires, explosions, leaks, collisions, mechanical failures, and damage from severe weather conditions and natural disasters. Furthermore, certain of our customers operate energy- and communications-related infrastructure assets in locations and environments that increase the likelihood and/or severity of these operational hazards, including as a result of changes in climate and other factors in recent years.

In particular, we perform a significant amount of services, including operational, consulting and other services, for customers that operate electrical power, natural gas, communications and other infrastructure assets in the western United States, Australia and other locations that have recently experienced, and have a higher risk of, wildfires. For example, certain of Quanta's operating units perform inspection, consulting, repair and maintenance and other services for utilities and other customers that operate electric power, natural gas, communications and other infrastructure in California and other areas in the western United States, including inspection of, and construction, upgrade, repair and maintenance and other services relating to, the electrical power and natural gas transmission and distribution infrastructure operated by PG&E Corporation and its primary operating subsidiary, Pacific Gas and Electric Company (together, PG&E), as well as other utilities and customers, in California and other western states. PG&E and certain other utility customers have been determined to be or are potentially responsible for catastrophic wildfire events that have occurred in recent years, some of which events Quanta's operating units have received document hold requests and subpoenas in connection with, and some of which events currently remain under investigation. We are not a party to any pending legal proceeding relating to such wildfire events at this time, and no related claims asserting

liabilities against Quanta or its operating units have been filed. However, there is no assurance that claims will not be filed in the future.

We also often perform services in locations that are densely populated and that have higher value property and assets, such as California and metropolitan areas, which can increase the impact of any of these hazards or other accidents. For example, one of our larger operating units specializes in underground gas and electric distribution and transmission services and operates in metropolitan areas throughout the northeastern United States, including New York City, New York, and we assumed certain contingent liabilities related to a natural gas explosion in connection with our acquisition of this operating unit in 2019, which are described further in Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*. Additionally, we operate a significant number of helicopters in the performance of our services, including the transportation of line workers, the setting of poles, the stringing of wires and wildfire control and prevention, among other activities, including in locations that have a higher risk of wildfires and in densely populated areas. Our operation of helicopters is subject to various risks, such as crashes, collisions, fires, adverse weather conditions or mechanical failures.

Events arising from operational hazards and accidents have resulted in significant liabilities to us in the past and may expose us to significant claims and liabilities in the future. These claims and liabilities can arise through indemnification obligations to customers, our negligence or otherwise, and such claims and liabilities can arise even if our operations are not the cause of the harm. Our exposure to liability can also extend for years after we complete our services, and potential claims and liabilities arising from significant accidents and events can take years and significant legal costs to resolve.

Potential liabilities include, among other things, claims associated with personal injury, including severe injury or loss of life, and destruction of or significant damage to property and equipment as well as harm to the environment, and other claims discussed above and can lead to suspension of operations, adverse effects to our safety record and reputation and/or material liabilities and legal costs. In addition, if any of these events or losses related thereto are alleged or found to be the result of our or our customer's activities or services, we could be subject to government enforcement actions, regulatory penalties, civil litigation and governmental actions, including investigations, citations, fines and suspension of operations. Insurance coverage may not be available to us or may be insufficient to cover the cost of any of these liabilities and legal costs, and our insurance costs may increase if we incur liabilities associated with operational hazards. If we are not fully insured or indemnified against such liabilities and legal costs or a counterparty fails to meet its indemnification obligations to us, it could materially and adversely affect our business, financial condition, results of operations and cash flows. Further, to the extent our reputation or safety record is adversely affected, demand for our services could decline or we may not be able to bid for certain work.

# Unavailability or cancellation of third-party insurance coverage would increase our overall risk exposure, as well as disrupt our operations, and estimates of losses covered by our insurance policies could prove incorrect.

We maintain insurance coverage from third-party insurers as part of our overall risk management strategy and because some of our contracts require us to maintain specific insurance coverage limits. We are insured for, among other things, employer's liability, workers' compensation, auto liability, aviation and general liability claims, but such insurance is subject to deductibles and limits and may be canceled or may not cover all of our losses. We also manage and maintain a portion of our casualty risk through our wholly-owned captive insurance company, which insures all claims up to the amount of the applicable deductible of our third-party insurance programs, and issue letters of credit to secure our obligations in connection with our casualty insurance programs. Our insurance policies include various coverage requirements, including notice requirements, and coverage could be denied if we fail to comply with those requirements.

Additionally, our insurance coverages may not be sufficient or effective under all circumstances or against all claims and liabilities asserted against us, and if we are not fully insured against such claims and liabilities, it could expose us to significant liabilities and materially and adversely affect our business, financial condition, results of operations and cash flows. We also renew our insurance policies on an annual basis, and therefore deductibles and levels of coverage offered by third parties may change in future periods, and there is no assurance that any of our coverages will be renewed at their current levels or at all or that any future coverage will be available at reasonable and competitive rates. Our third-party insurers could also fail, cancel our coverage or otherwise be unable or unwilling to provide us with adequate insurance coverage. For example, due to the increased occurrence and future risk of wildfires in California and other areas in the western United States, Australia and other locations, insurers have reduced coverage availability and increased the cost of insurance coverage for such events in recent years. As a result, our level of insurance coverage for wildfire events decreased, including in connection with our annual insurance renewals in the spring of 2020 and 2019, and our levels of coverage may not be sufficient to cover potential losses. Furthermore, our third-party insurers could also decide to further reduce or exclude coverage for wildfires or other events in connection with our insurance renewal in the spring of 2021 and/or in the future. Adverse changes in our insurance coverage could increase our exposure to uninsured losses, which could have a negative effect on our business, financial condition, results of operations.

Losses under our insurance programs are accrued based upon our estimate of the ultimate liability for claims reported and

an estimate of claims incurred but not reported, with assistance from third-party actuaries. These insurance liabilities are difficult to assess and estimate due to unknown factors, including the severity of an injury, the extent of damage, the determination of our liability in proportion to other parties and unreported incidents. If we experience claims or costs above our estimates, our business, financial condition, results of operations and cash flows could be materially and adversely affected.

# Our business is labor-intensive, and we may be unable to attract and retain qualified employees or we may incur significant costs in the event we are unable to efficiently manage our workforce.

Our ability to efficiently manage our business and achieve our strategic initiatives is limited by our ability to employ, train and retain the necessary skilled personnel, which is subject to a number of risks. The commencement of new, large-scale infrastructure projects or increased demand for infrastructure improvements, as well as the aging electric utility workforce, has reduced and may further reduce the pool of skilled workers, including experienced program managers and qualified journeyman linemen, available for our Electric Power Infrastructure Solutions segment. With respect to our Underground Utility and Infrastructure Solutions segment, there is limited availability of experienced supervisors and foremen that can oversee larger diameter pipeline projects. The cyclical nature of the natural gas and oil industry can also create shortages of qualified labor during periods of high demand and production. A shortage in the supply of these personnel creates competitive hiring markets that may result in increased labor expenses, and we have incurred, and expect to continue to incur, significant education and training expenses in order to recruit and train employees. The uncertainty of contract award timing and project delays can also present difficulties in managing our workforce size. Our inability to efficiently manage our workforce may require us to incur costs resulting from excess staff, reductions in staff, or redundancies that could have a material adverse impact on our business, financial condition, results of operations and cash flows.

## The loss of, or reduction in business from, certain significant customers could have a material adverse effect on our business.

A few customers have in the past and may in the future account for a significant portion of our revenues. For example, our ten largest customers accounted for 32% of our consolidated revenues for the year ended December 31, 2020. Although we have long-standing relationships with many of our significant customers, a significant customer may unilaterally reduce or discontinue business with us at any time or merge or be acquired by a company that decides to reduce or discontinue business with us. A significant customer may also file for bankruptcy protection or cease operations, which could also result in reduced or discontinued business with us. The loss of business from a significant customer could have a material adverse effect on our business, financial condition, results of operations and cash flows.

# Changes in estimates related to revenues and costs associated with our contracts with customers could result in a reduction or elimination of revenues, a reduction of profits or the recognition of losses.

For fixed price contracts and certain unit-price contracts, we recognize revenue as performance obligations are satisfied over time and earnings or losses recognized on individual contracts are based on estimates of contract revenues, costs and profitability, as discussed in further detail in Note 2 of the Notes to Consolidated Financial Statements included in Item 8. *Financial Statements and Supplementary Data*. Changes in contract estimates are recognized on a cumulative catch-up basis in the period in which the revisions to the estimates are made, and contract losses are recognized in full when losses are determined to be probable and can be reasonably estimated. Variable consideration amounts, including performance incentives, early pay discounts and penalties, may also cause changes in contract estimates. In addition, we recognize amounts associated with change orders and/or claims as revenue when it is probable that the contract price will be adjusted and the amount of any such adjustment can be reasonably estimated, which can result in the recognition of costs prior to the recognition of the related revenue. Furthermore, actual amounts collected in connection with change orders can differ from estimated amounts. Consequently, the timing for recognition of revenues and profit or loss and any subsequent changes in estimates is uncertain and could result in a reduction or an elimination of previously reported revenues or profits or the recognition of losses on the associated contract. Any such adjustments could be significant and could have a material adverse impact on our financial condition, results of operations and cash flows.

#### We may fail to adequately recover on contract change orders or claims brought by us against customers.

We have in the past brought, and may in the future bring, claims against our customers. These types of claims occur due to, among other things, delays caused by customers and third parties and changes in project scope, which can result in additional costs that may not be recovered until the claim is resolved. While we generally negotiate with the customer for additional compensation, we may be unable to obtain, through negotiation, arbitration, litigation or otherwise, adequate amounts to compensate us for the additional work or expenses incurred. Litigation or arbitration with respect to these matters is generally lengthy and costly, involves significant uncertainty as to timing and amount of any resolution, and can adversely affect our relationship with existing or potential customers. Furthermore, we can be required to invest significant working capital to fund cost overruns while the resolution of a claim is pending. Failure to obtain adequate and prompt compensation for these matters can result in a reduction of revenues and gross profit recognized in prior periods or the recognition of a loss. Any

such reduction or loss can be substantial and can have a material adverse effect on our business, financial condition, results of operations and cash flows.

# During the ordinary course of our business, we are subject to lawsuits, claims and other legal proceedings, as well as bonding claims and related reimbursement requirements.

We have in the past been, and may in the future be, named as a defendant in lawsuits, claims and other legal proceedings that arise in the ordinary course of our business. These actions seek, among other things, compensation for alleged personal injury (including claims for loss of life), workers' compensation, employment discrimination, sexual harassment, workplace misconduct, wage and hour claims and other employment-related damages, compensation for breach of contract, negligence or gross negligence or property damage, environmental liabilities, multiemployer pension plan withdrawal liabilities, punitive damages, consequential damages, and civil penalties or other losses or injunctive or declaratory relief. In addition, we generally indemnify our customers for claims related to the services we provide and actions we take under our contracts, and, in some instances, we are allocated risk through our contract terms for actions by our customers, subcontractors or other third parties. Because our services in certain instances can be integral to the operation and performance of our customers' infrastructure, we have been and may become subject to lawsuits or claims for any failure of the systems that we work on or damages caused by accidents and events related to such systems, even if our services are not the cause of such failures and damages. We could also be subject to civil and criminal liabilities, which could be material. Insurance coverage may not be available or may be insufficient for these lawsuits, claims or legal proceedings, as well as any public reaction thereto, is inherently uncertain and could result in significant costs, damage to our business. Payments of significant amounts, even if reserved, could materially and adversely affect our business, reputation, financial condition, results of operations and cash flows.

In addition, many customers, particularly in connection with new construction, require us to post performance and payment bonds. These bonds provide a guarantee that we will perform under the terms of a contract and pay our subcontractors and vendors. If we fail to perform, the customer may demand that the surety make payments or provide services under the bond, and we must reimburse the surety for any expenses or outlays it incurs. For example, we were required to make material reimbursements to our sureties for bond-related costs in connection with the exercise of approximately \$112 million of on-demand advance payment and performance bonds related to a terminated telecommunications project in Peru. As of December 31, 2020, the total amount of our outstanding performance bonds was estimated to be approximately \$3.7 billion. To the extent reimbursements are required, the amounts could be material and could adversely affect our consolidated business, financial condition, results of operations or cash flows. For details on our existing litigation, claims and other legal proceedings, refer to Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* of this Annual Report.

#### We may be unsuccessful at generating internal growth, which could adversely affect our business.

Many of the factors affecting our ability to generate internal growth are beyond our control, and we cannot be certain that our strategies for achieving internal growth will be successful. Our ability to generate internal growth will be affected by, among other factors, our ability to profitably scale the services we currently offer and expand our overall service offerings, attract new customers, increase the number of projects we perform for existing customers; hire and retain qualified employees and expand geographically within our current markets, as well as our ability to address regulatory, environmental and permitting requirements and economic or market conditions that affect us or our customers. Inability to successfully generate internal growth may adversely affect our financial condition, results of operations and cash flows.

# Many of our contracts may be canceled or suspended on short notice or may not be renewed upon completion or expiration, and we may be unsuccessful in replacing our contracts, which could adversely affect our business.

Our customers have in the past and may in the future cancel, delay or reduce the number or size of projects available to us for a variety of reasons, including capital constraints or inability to meet regulatory requirements. Furthermore, many of our customers may cancel or suspend our contracts on short notice, typically 30 to 90 days, even if we are not in default under the contract. Certain of our customers assign work to us on a project-by-project basis under master service agreements. Under these agreements, our customers generally have no obligation to assign a specific amount of work to us. Our financial condition, results of operations and cash flows can be negatively impacted if our customers cancel or suspend contracts having significant value, we fail to renew or replace a significant number of our existing contracts when they expire or are completed or the anticipated volume of work under an existing master service agreement is not assigned to us.

#### The nature of our business exposes us to potential liability for warranty, engineering and other related claims.

We typically provide contractual warranties for our services and materials, guaranteeing the work performed against, among other things, defects in workmanship, and we may agree to indemnify our customers for losses related to our services.

The length of these warranty periods varies and can extend for several years, and certain projects can have longer warranty periods and include facility performance warranties that are broader than the warranties we generally provide. Warranties generally require us to re-perform the services and/or repair or replace the warranted item and any other facilities impacted thereby, at our sole expense, and we could also be responsible for other damages if we are not able to adequately satisfy our warranty obligations. In addition, we can be required under contractual arrangements with our customers to warrant any defects or failures in materials we provide. While we generally require materials suppliers to provide us warranties that are consistent with those we provide customers, if any of these suppliers default on their warranty obligations to us, we may incur costs to repair or replace the defective materials. For example, as discussed in further detail in *Legal Proceedings* within Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*, we are involved in litigation with respect to a claim of approximately \$59 million in damages related to alleged warranty defects on a pipeline project.

Furthermore, our business involves professional judgments regarding the planning, design, development, construction, operations and management of electric power, communications, underground utility and pipeline infrastructure. Because our projects are often technically complex, our failure to make judgments and recommendations in accordance with applicable professional standards, including engineering standards, could result in damages. A significantly adverse or catastrophic event at a project site or completed project resulting from the services we performed could result in significant professional or product liability, personal injury (including claims for loss of life) or property damage claims or other claims against us, as well as reputational harm. These liabilities could exceed our insurance limits or impact our ability to obtain third-party a result, warranty, engineering and other related claims could have a material adverse impact on our business, financial condition, results of operations and cash flows.

### We can incur liabilities or suffer negative financial or reputational impacts relating to health and safety matters.

Our operations are inherently hazardous and subject to extensive laws and regulations relating to the maintenance of safe conditions in the workplace. While we have invested, and will continue to invest, substantial resources in our occupational health and safety programs, our industry involves a high degree of operational risk, and there can be no assurance that we will avoid significant liability exposure. Although we have taken precautions designed to mitigate this risk, we have suffered serious accidents, including fatalities, and we anticipate that our operations may result in additional serious accidents in the future. As a result of these events, we could be subject to substantial penalties, criminal prosecution or civil litigation, including claims for bodily injury or loss of life, that could result in substantial costs and liabilities. In addition, if our safety record were to substantially deteriorate over time or we were to suffer substantial penalties or criminal prosecution of health and safety regulations, our customers could cancel our contracts and elect to procure future services from other providers. Unsafe work sites also have the potential to increase employee turnover, increase the costs of projects for our clients, and raise our operating costs. Any of the foregoing could have a material adverse impact on our business, financial condition, results of operations and cash flows.

# Disruptions to our information technology systems or our failure to adequately protect critical data, sensitive information and technology systems could materially affect our business or result in harm to our reputation.

We rely on information technology systems to manage our operations and other business processes and to protect sensitive company information, and our reliance on those systems has increased as a result of remote working arrangements necessitated by the COVID-19 pandemic. We also collect and retain information about our customers, stockholders, vendors and employees, all of which expect that we will adequately protect such information. Breaches or disruptions of our information systems, or systems of key third parties and information technology vendors that we rely upon, can result from, among other things, cyber-attacks, theft, inadvertent exposure of sensitive information, acts of terrorism, storms or other natural phenomena, information technology solution failures or network disruptions, and any such cyber-attacks or breaches can go unnoticed for some period of time. An intrusion into the information systems of a business we acquire may also ultimately compromise our systems. Furthermore, some of the energy infrastructure systems on which we work may be considered to be strategic targets, and therefore at greater risk of cyber-attacks or attacks or attacks.

Cyber-attacks can result in compromises of our payment systems, monetary losses, inability to access our systems, delays in processing transactions or reporting financial results, the disclosure or misappropriation of confidential or proprietary company information (including for the purpose of transacting in our stock), or the release of customer, stockholder, vendor or employee data. An attack could also cause service disruptions to our internal systems or, in extreme circumstances, infiltration into, damage to or loss of control of our customers' energy infrastructure systems. Any such breach or disruption could subject us to significant liabilities, cause damage to our reputation or customer relationships, or result in regulatory investigations or other actions by governmental authorities, which could have a material adverse impact on our business, financial condition, results of operations and cash flows.

# Any deterioration in the quality or reputation of our brands, which can be exacerbated by the effect of social media or significant media coverage, could have an adverse impact on our business.

Our brands and our reputation are among our most important assets, and our ability to attract and retain customers depends on brand recognition and reputation. Such dependence makes our business susceptible to reputational damage and to competition from other companies. A variety of events could result in damage to our reputation or brands, some of which are outside of our control, including:

- · acts or omissions that adversely affect our business such as a crime, scandal, cyber-related incident, litigation or other negative publicity;
- failure to successfully perform a high-profile project, including our recent joint venture in LUMA Energy, LLC (LUMA), which was selected for a 15-year operation
  and maintenance agreement to operate, maintain and modernize the approximately 18,000-mile electric transmission and distribution system in Puerto Rico;
- · actual or potential involvement in a catastrophic fire, explosion or similar event; or
- actual or perceived responsibility for a serious accident or injury.

Intensifying media coverage, including the considerable expansion in the use of social media, has increased the volume and speed at which negative publicity arising from these events can be generated and spread, and we may be unable to timely respond to, correct any inaccuracies in, or adequately address negative perceptions arising from such media coverage. If the reputation or perceived quality of our brands decline or customers lose confidence in us, our business, financial condition, results of operations, or cash flows could be adversely affected.

# Our financial results are based upon estimates and assumptions that may differ from actual results.

In preparing our consolidated financial statements in conformity with GAAP, estimates and assumptions are used by management to report the assets, liabilities, revenues and expenses. These estimates and assumptions are necessary because certain information used in the preparation of our financial statements is dependent on future events, cannot be calculated with a high degree of precision from available data or cannot be readily calculated based on generally accepted methodologies. In some cases, these estimates are particularly difficult to determine, and we must exercise significant judgment, and as a result actual results can differ materially from the estimates and assumptions that we use and have a material adverse effect on our financial condition, results of operations and cash flows. For example, our remaining performance obligations and backlog are difficult to determine with certainty. Customers often have no obligation under our contracts to assign or release work to us, and many contracts may be terminated on short notice. Cancellation or reduction in scope of a contract can significantly reduce the revenues and profit we recognize. Consequently, our estimates of remaining performance obligations and backlog may not be accurate, and we may not be able to realize our estimated remaining performance obligations and backlog.

### Our results of operations and financial condition may be adversely affected as a result of asset impairments.

Our results of operations and financial condition may be adversely affected by impairments to goodwill, other intangible assets, receivables, long-lived assets or investments. As described further in Note 2 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*, we record goodwill when we acquire a business, and goodwill must be tested at least annually for impairment. Additionally, equity investments are reviewed for impairment by assessing whether there has been a decline in the fair value of the investment below the carrying amount. We have recorded impairments in the past, and any future impairments could have a material adverse effect on our financial condition and results of operations for the period in which the impairment is recognized. For example, during the first and second quarters of 2020, we recorded charges of \$3.1 million and \$14.9 million for aggregate charges of \$18.0 million, primarily related to a \$9.3 million impairment associated with an investment in a water and gas pipeline infrastructure contractor located in Australia and \$8.7 million of impairments associated with two non-integral equity investments that have been negatively impacted by the decline in demand for refined petroleum products. Additionally, during the fourth quarters of 2020, 2019 and 2018, we recorded \$8.3 million, \$13.9 million and \$49.4 million of asset impairment charges that primarily related to the following: the exit of our Latin American operations and the planned sale of certain foreign operations and assets in 2019; and the winding down of certain oil-influenced operations and assets in 2018.

#### Our inability to successfully execute our acquisition strategy may have an adverse impact on our growth.

Our business strategy includes expanding our presence in the industries we serve through strategic acquisitions of companies that complement or enhance our business. The number of acquisition targets that meet our criteria may be limited. We may also face competition for acquisition opportunities, and other potential acquirers may offer more favorable terms or have greater financial resources available for potential acquisitions. This competition may further limit our acquisition opportunities or raise the prices of acquisitions and make them less accretive, or possibly not accretive, to us. Failure to

consummate future acquisitions could negatively affect our growth strategies. Additionally, our past acquisitions have involved, and our future acquisitions may involve, significant cash expenditures and stock issuances, the incurrence or assumption of debt and other known and unknown liabilities and expose us to burdensome regulatory requirements. For example, we assumed certain contingent liabilities associated with an acquisition in 2019, which are described further in Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*. As a result, past or future acquisitions may ultimately have a negative impact on our business, financial condition, results of operations and cash flows.

The success of our acquisition strategy also depends on our ability to successfully integrate the operations of the acquired businesses with our existing operations and realize the anticipated benefits from the acquired businesses, such as the expansion of our existing operations, elimination of redundant costs and capitalizing on cross-selling opportunities. Our ability to integrate and realize benefits can be negatively impacted by, among other things:

- failure of an acquired business to achieve the results we expect;
- diversion of our management's attention from operational and other matters or other potential disruptions to our existing business;
- difficulties incorporating the operations and personnel, or inability to retain key personnel, of an acquired business;
- additional financial reporting and accounting challenges associated with an acquired business;
- unanticipated events or liabilities associated with the operations of an acquired business;
- · loss of business due to customer overlap or other factors; and
- risks and liabilities arising from the prior operations of an acquired business, such as performance, operational, safety, workforce or other compliance or tax issues, some of which we may not have discovered or accurately estimated during our due diligence and may not be covered by indemnification obligations or available insurance.

We cannot be sure that we will be able to successfully complete the integration process without substantial costs, delays, disruptions or other operational or financial problems. Failure to successfully integrate acquired businesses could adversely impact our business, financial condition, results of operations and cash flows.

Additionally, we also generally require that key management and former principals of the businesses we acquire enter into non-competition agreements in our favor. Enforceability of these non-competition agreements varies by jurisdiction and typically is dependent upon specific facts and circumstances, making it difficult to predict their enforceability. Therefore, if a member of the key management of the businesses we acquire is terminated, we might be subject to increased competition if the restrictive covenants entered into by such person are not enforceable or have expired, which could materially and adversely affect our business, financial condition, results of operations and cash flows.

## Our decentralized management structure could negatively impact our business.

We cannot be certain that our management structure will be adequate to support our operations as they expand. Our decentralized structure places significant control and decision-making powers in the hands of our operating unit management. This contributes to the risk that we may be slower or less able to identify or react to problems affecting key business matters than we would in a more centralized environment. The lack of timely access to information may also impact the quality of decision making by management. For example, our ability to coordinate and utilize resources, including our fleet, depends on effective communications and processes among our operating units. As a result, the ability to internally communicate, coordinate and execute business strategies, plans and tactics may be negatively impacted by our increasing size and complexity. Our decentralized organization can also result in our operating subsidiaries assuming excessive risk without appropriate guidance from our centralized legal, accounting, safety, tax, treasury and insurance functions. Future growth could also impose significant additional responsibilities on members of our senior management, and we effectively or are unable to attract and retain additional qualified management, we may not be able to expand our operations or execute our business plan.

### The loss of key personnel could disrupt our business.

We depend on the continued efforts of our executive officers, senior corporate management and management of our operating units, which includes leadership and key personnel of the businesses we acquire. Although we typically enter into employment agreements with our executive officers and other key employees for initial terms of one to three years and subsequent renewal options, we cannot be certain that any individual will continue in such capacity for any particular period of time. The loss of key personnel, as well as our inability to attract, develop and retain qualified employees that can succeed key personnel, could negatively impact our ability to manage our business.

### Our investments and joint ventures expose us to risks and may result in conflicts of interest that could adversely impact our business or result in reputational harm.

We have entered into strategic relationships, joint ventures and other investment arrangements with various partners, including customers and infrastructure investors, through which we have invested in infrastructure assets and businesses, and we expect this activity to continue in the future. For additional information on our investment activity, including our recent joint venture in LUMA, see Note 2 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*.

These types of investments expose us to increased risks, including poor performance by the infrastructure projects or businesses in which we have invested due to, among other things, difficult market or economic conditions or slowdowns (which may occur across one or more industries, sectors or geographies) or changes to the supply or demand and fluctuations in the price of commodities. That negative performance could result in lower investment returns, a decline in value or total loss of our investments or the possible sale of our investments at values below our initial projections, including at a loss, all of which could adversely affect our business, financial condition, results of operations and cash flows. Additionally, poor performance of our investments or poor or incomplete performance by our capital partnership structure formed with select infrastructure investors could result in reputational harm to Quanta that impairs our ability to participate in future investment opportunities, which in turn could adversely affect our business, which in turn could adversely affect our a 180-day period during which the investors and Quanta evaluated the partnership, at the end of which the investment period for any future investments ended. Further, our relationship with a customer or investor that partners with us in a poorly performing investment could become impaired, which may negatively impact our ability to continue providing services to that customer.

Conflicts of interest may also exist or arise for us in relation to our investment partners as a result of the structure of our investment arrangements. For example, in these structures, Quanta can be the contractor for a project as well as an equity investor and possibly the manager of investments in that project. In those instances, conflicts of interest can exist for such things as contractor pricing and the handling of contractor change orders and other claims. While we have taken certain actions that we believe minimize or address these and other anticipated conflicts of interest, including through internal management practices and the terms of our agreements with investment partners, our failure to properly manage such conflicts of interest can expose us to liability or harm our relationships with investment partners, which could impact our business, financial condition, results of operations and cash flows or cause reputational harm to Quanta.

Additionally, the purpose of our joint ventures is typically to combine skills and resources to allow for the bidding and performance of particular projects, and the success on these projects can be adversely affected by the performance of our joint venture partners, over whom we may have little or no control. Differences in opinions or views between us and our joint venture partners may result in delayed decision-making or failure to agree on material issues that may adversely affect the business and operations of our joint venture partners are also generally jointly and severally liable for all liabilities and obligations of a joint venture. If a joint venture partner fails to perform or is unable to satisfy required capital contributions or other obligations, including liabilities stemming from claims or lawsuits, we could be required to make additional investments, provide additional services or pay more than our proportionate share of a liability to make up for their shortfall. Further, if our partners experience cost overruns or project performance issues that we are unable to adequately address, the customer may terminate the project, which could result in legal liability to us, harm our reputation and reduce our profit or increase our loss on a project. As a result, the failure by a joint venture partner to successfully perform or comply with applicable laws, regulations or client requirements could negatively impact our business.

# We extend credit to customers for purchases of our services and enter into other arrangements with certain of our customers, which subjects us to potential credit or investment risk.

We grant credit, generally without collateral, to our customers, which include utilities, communications providers, energy companies, governmental entities, general contractors, and builders, owners and managers of renewable energy facilities and commercial and industrial properties located primarily in the United States, Canada and Australia. In certain circumstances, we also allow our customers to defer payment until certain project milestones have been met or until a project is substantially completed, and customers typically withhold some portion of amounts due to us as retainage until a project is complete. In addition, we have provided in the past and may provide in the future other forms of financing to our customers or make investments in our customers' projects. These payment arrangements subject us to potential credit risk related to changes in business and economic factors affecting our customers, and certain of our customers for which we were contracted to construct a natural gas pipeline encountered financial difficulties during 2020 that resulted in nonpayment of certain receivables owed, and as a result we decided to foreclose our liens on the pipeline asset in order to recover the outstanding amounts. If we are unable to collect such amounts, or retain amounts paid to us, our cash flows would be reduced, and we could experience losses. Business and economic factors resulting in financial difficulties (including



bankruptcy) for our customers can also reduce the value of any financing or equity investment arrangements we have with our customers, thereby increasing the risk of loss in those circumstances. Losses experienced as a result of these credit and investment risks could materially and adversely affect our financial condition, results of operations and cash flows.

### Risks associated with operating in international markets and U.S. territories could harm our business and prospects.

Our overall business, financial condition, results of operations and cash flows can be negatively impacted by our activities and operations outside the continental United States, including our international operations and operations in U.S. territories. Although these operations are presently conducted primarily in Canada and Australia, we also perform work in other foreign countries and U.S. territories. For the year ended December 31, 2020, we derived \$1.58 billion, or 14.1%, of our consolidated revenues from foreign operations, the substantial majority of which was related to Canada and Australia.

Changes in economic conditions, including those resulting from wars and other conflicts, civil unrest, public health crises, such as the COVID-19 pandemic, acts of terrorism, or volatility in global markets, may adversely affect demand for our services and our customers' ability to pay for our services. In addition, at times we are paid for work outside the United States in currencies other than the U.S. dollar. Such payments are subject to fluctuating exchange rates and may exceed our local currency needs, and, in certain instances, those amounts may be subject to temporary blocking, taxes or tariffs, and we may experience difficulties if we attempt to convert such amounts to U.S. dollars.

There are numerous other risks associated with operating in international markets, including, but not limited to, changes in applicable regulatory requirements; foreign currency exchange fluctuations; political, economic and social instability; expropriation or nationalization of our assets and operations; unfamiliar foreign legal systems and business practices; and complex U.S. and foreign tax regulations and other laws and international treaties. For example, as discussed in further detail in *Legal Proceedings* within Note 14 of the Notes to Consolidated Financial Statements in Item 8.*Financial Statements and Supplementary Data*, the termination of a telecommunications project in Peru resulted in a \$79.2 million charge to earnings in the second quarter of 2019. Furthermore, we may incur significant costs or liabilities associated with an unsuccessful attempt to enter a new market or we may enter a new market that ultimately proves to be unprofitable or has an otherwise adverse effect on our business. We may also incur significant costs and liabilities associated with winding down or exiting an existing market. For example, we incurred operating losses of \$74.0 million, including asset impairment charges of \$7.0 million, during 2020 in connection with the exit of our Latin American operations, and our exit from this market could result in additional significant costs during 2021 or in subsequent years. These risks could restrict our ability to provide services to international customers, operate our international business profitably or fund our strategic objectives, which could negatively impact our overall business, financial condition, results of operations and cash flows.

Additionally, during the year ended December 31, 2020, foreign revenues decreased by approximately \$17 million in comparison with the year ended December 31, 2019 as a result of less favorable foreign currency exchange rates due primarily to the U.S. dollar strengthening against the Canadian and Australian dollars. Furthermore, to the extent the volume of services we provide internationally increases, our financial condition, results of operations and cash flows could be further exposed to the effects of fluctuating exchange rates.

### Limitations on the availability of suppliers, subcontractors and equipment manufacturers that we depend on could adversely affect our business.

We rely on suppliers to obtain the necessary materials and subcontractors to perform portions of our services. We also rely on equipment manufacturers to provide us with the equipment required to conduct our operations, including a significant number of specialty vehicles. Limitations on the availability of suppliers, subcontractors or equipment manufacturers could negatively impact our operations, particularly in the event we rely on a single or small number of providers. The risk of a lack of available suppliers, subcontractors or equipment manufacturers can be heightened as a result of market, regulatory or economic conditions. For example, customers in certain states and Canada, in order to receive certain funding or for other reasons, may expect or compel us to engage a specified percentage of suppliers that meet diversity-ownership requirements, which can further limit our pool of available suppliers and limit our ability to secure contracts, maintain our services or grow in those areas.

Additionally, successful completion of our contracts can depend on whether our subcontractors successfully fulfill their contractual obligations. If our subcontractors fail to perform their contractual obligations, fail to meet the expected completion dates or quality standards or fail to comply with applicable laws, we may be required to incur additional costs or provide additional services to mitigate such shortcomings. As a result, regulatory or other requirements that require us to outsource a percentage of services to subcontractors, whether they are businesses meeting diversity-ownership requirements or otherwise, also limit our ability to self-perform our services, thereby potentially increasing performance risk associated with our services. Furthermore, services subcontracted to other service providers generally yield lower margins, and therefore these regulatory requirements can impact our profitability and results of operations.

### An increase in the price or restrictions on use of fuel, materials or equipment necessary for our business could adversely affect our business.

Under certain contracts, including where we have assumed responsibility for procuring materials for a project, we are exposed to price increases for materials such as copper and steel, which are used as components of supplies or materials utilized in all of our operations. In addition, our customers' capital budgets can be negatively impacted by an increase in prices of certain materials. Prices could be materially impacted by general market conditions and other factors, including global trade relationships. For example, recent changes to U.S. policies related to global trade and tariffs, as well as retaliatory trade measures implemented by other countries, have resulted in uncertainty concerning availability and pricing of certain commodities and goods important to our and our customers' businesses, including steel and aluminum. We are also exposed to increases in energy prices, particularly fuel prices for our large rolling-stock fleet, which could be negatively impacted by potential regulatory, legislative and policy changes resulting from the 2020 U.S. congressional and presidential elections. Furthermore, some of our fixed price contracts do not allow us to adjust our prices and, as a result, increases in material or fuel costs could reduce our profitability with respect to such projects. Our ability to utilize certain existing vehicles within our fleet may also be limited by emissions or other regulations. To the extent we are unable to utilize a significant portion of our existing fleet, we may be unable to perform services, which could have an adverse effect on our future financial condition, results of operations and cash flows.

# Increasing scrutiny and changing expectations from investors and customers with respect to corporate sustainability practices may impose additional costs on us or expose us to reputational or other risks.

Investors and other interested constituencies have focused increasingly on the environmental, social and governance (ESG) practices of companies, including practices with respect to human capital resources, emissions and environmental impact and political spending. While we have programs and initiatives in place related to our ESG practices, investors may decide to reallocate capital or to not commit capital as a result of their assessment of our practices. In addition, our customers may require that we implement certain additional ESG procedures or standards in order to continue to do business with us. A failure to comply with investor or customer expectations and standards, which are evolving, or if we are perceived to not have responded appropriately to the growing concern for ESG issues, regardless of whether there is a legal requirement to do so, could also cause reputational harm to our business and could have a material adverse effect on us. In addition, organizations that provide ratings information to investors on ESG matters may assign unfavorable ratings to Quanta or our industries, which may lead to negative investor sentiment and the diversion of investment to other companies or industries, which could have a negative impact on our stock price and our costs of capital.

### **Risks Related to Our Industries**

# Negative economic and market conditions, including low commodity production volumes and prices, can adversely impact our customers' future spending as well as payment for our services.

Stagnant or declining economic conditions, including a prolonged economic downturn or recession, as well as significant events that have an impact on financial or capital markets, can adversely impact the demand for our services and result in the delay, reduction or cancellation of certain projects. A number of factors can adversely affect the industries we serve, including, among other things, the COVID-19 pandemic, financing conditions, potential bankruptcies and global and U.S. trade relationships and other geopolitical events. A reduction in cash flow or the lack of availability of debt or equity financing for our customers could result in a reduction in our customers' spending for our services and also impact the ability of our customers to pay amounts owed to us, which could have a material adverse effect on our business, financial condition, results of operations and cash flows. Consolidation, competition, capital constraints or negative economic conditions in the electric power, energy or communications industries can also result in reduced spending by, or the loss of, one or more of our customers.

Our Underground Utility and Infrastructure Solutions segment is exposed to risks associated with the oil and gas industry. These risks, which are not subject to our control, include the volatility of commodity prices and production volumes, the development of and consumer demand for alternative energy sources, and legislative and regulatory actions, as well as public opinion, regarding the impact of fossil fuels on the climate and environment. Specifically, lower prices and production volumes, or perceived risk thereof, can result in decreased or delayed spending by our customers, including with respect to larger pipeline and industrial projects. For example, the COVID-19 pandemic and corresponding preventative measures taken around the world have resulted in downward pressure on commodity prices, which negatively impacted, and may continue to negatively impact, certain services within our Underground Utility and Infrastructure Solutions segment and resulted in impairment losses of \$8.7 million related to certain non-integral equity method investments during the year ended December 31, 2020 and may result in future impairment losses associated with goodwill, other intangible assets and other long-lived assets. Demand for our industrial services operations also declined during 2020 as customers reduced and deferred regularly scheduled maintenance due to lack of demand for refined products as a result of the COVID-19 pandemic. Additionally, pipeline and industrial capital projects have been, and are expected to be, negatively impacted for a prolonged period due to the low commodity price

environment and resulting reductions in customer capital budgets. Furthermore, the change in control of the U.S. Congress and presidency in 2021 may result in increased restrictions on oil and gas production activities, which could have a material adverse effect on the oil and gas industry as a whole. If the profitability of our Underground Utility and Infrastructure Solutions segment were to decline, our overall financial position, results of operations and cash flows could also be adversely affected. A decline in prices, production or the development of resource plays can also negatively impact demand for certain electric power infrastructure services performed in energy-reliant markets, including Canada and Australia.

# Our revenues and profitability can be negatively impacted if our customers encounter financial difficulties or file bankruptcy or disputes arise with our customers.

Our contracts often require us to satisfy or achieve certain milestones in order to receive payment, or in the case of cost-reimbursable contracts, provide support for billings in advance of payment. As a result, we can incur significant costs or perform significant amounts of work prior to receipt of payment. We face difficulties collecting payment and sometimes fail to receive payment for such costs in circumstances where our customers do not proceed to project completion, terminate or cancel a contract, default on their payment obligations, or dispute the adequacy of our billing support. We have in the past brought, and may in the future bring, claims against our customers related to the payment terms of our contracts. For example, as discussed in further detail in *Legal Proceedings* within Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*, we have filed certain international arbitration proceedings against the customer in connection with the terminated telecommunications project in Peru, which seeks to recover, among other things, amounts related to a net receivable position of approximately \$120 million as of December 31, 2020. A failure to recover on these types of claims can have a negative impact on our financial condition, results of operations and cash flows, and any such claims may harm our relationships with our customers.

Slowing economic conditions in the industries we serve can also impair the financial condition of our customers and hinder their ability to pay us on a timely basis or at all. Further, to the extent a customer files bankruptcy, payment of amounts owed can be delayed and certain payments we receive prior to the filing of the bankruptcy petition may be avoided and returned to the customer's bankruptcy estate. For example, in January 2019, PG&E Corporation and Pacific Gas and Electric Company (collectively, PG&E), one of our largest customers, filed for bankruptcy protection under Chapter 11 of the U.S. Bankruptcy Code, as amended, delaying our collection of approximately \$165 million of our pre-petition receivables, which were ultimately collected or sold to a third party during the second half of 2019 and 2020. A customer within our Underground Utility and Infrastructure Solutions segment encountered financial difficulties during 2020 that resulted in nonpayment of certain receivables owed, and as a result of which we decided to foreclose our liens on the pipeline asset in order to recover the outstanding amounts. See *Concentrations of Credit Risk* in Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for additional information. Additionally, many of our customers for larger projects are project-specific entities that do not have significant assets other than their interests in the project and could be more likely to encounter financial difficulties relating to their businesses. We ultimately may be unable to collect amounts owed to us by customers experiencing financial difficulties or in bankruptcy, and accounts receivable from such flows.

### Our business is highly competitive, and competitive pressures could negatively affect our business.

We cannot be certain that we will maintain or enhance our competitive position or maintain our current customer base. The specialty contracting business is served by numerous companies, from small, owner-operated private companies to large multi-national, public companies. Relatively few barriers prevent entry into some areas of our business, and as a result, any organization that has adequate financial resources and access to technical expertise may become one of our competitors. In addition, some of our competitors have significant financial, technical and marketing resources, and may have or develop expertise, experience and resources to provide services that are superior in both price and quality to our services. Additionally, certain of our competitors may have lower overhead cost structures, and therefore may be able to provide services at lower ates than us. We also face competition from the in-house service organizations of our existing or prospective customers, which are capable of performing, or acquiring businesses that perform, some of the same types of services we provide. These customers may also face pressure or be compelled by regulatory or other requirements to self-perform an increasing amount of the services we currently perform for them, thereby reducing the services they outsource to us in the future.

Furthermore, a substantial portion of our revenues is directly or indirectly dependent upon obtaining new contracts, which is unpredictable and often involves complex and lengthy negotiations and bidding processes that are impacted by a wide variety of factors, including, among other things, price, governmental approvals, financing contingencies, commodity prices, environmental conditions, overall market and economic conditions, and a potential customer's perception of our ability to perform the work or the technological advantages held by our competitors. The competitive environment we operate in can also affect the timing of contract awards and the commencement or progress of work under awarded contracts. For example, based on rapidly changing competition dynamics, we have recently experienced, and may in the future experience, more competitive pricing for smaller scale projects Additionally, changing competitive pressures present difficulties in matching workforce size with available contract awards. As a result, the competitive environment we operate in can have a material adverse effect on our business, financial condition, results of operations and cash flows.

# Technological advancements and other market developments could negatively affect our business.

Technological advancements, market developments and other factors may increase our costs or alter our customers' existing operating models or the services they require, which could result in reduced demand for our services. For example, a reduction in demand for hydrocarbons or plastics or an increase in demand for renewable energy sources or otherwise, could negatively impact certain of our customers and reduce demand for our services. Additionally, a transition to a decentralized electric power grid, which relies on more dispersed and smaller-scale renewable energy sources, could reduce the need for large infrastructure projects and significant maintenance and rehabilitation programs, thereby reducing demand for, or profitability of, our services. Our future success will depend, in part, on our ability to anticipate and adapt to these and other potential changes in a cost-effective manner and to offer services that meet customer demands and evolving industry standards. If we fail to do so or incur significant expenditures in adapting to success financial condition, results of operations and cash flows could be materially and adversely affected.

Furthermore, we view our portfolio of proprietary energized services tools and techniques and other process and design technologies as competitive strengths, which we believe differentiate our service offerings. If our intellectual property rights or work processes become obsolete, through technological advancements or otherwise, we may not be able to differentiate our service offerings and some of our competitors may be able to offer more attractive services to our customers, which could materially and adversely affect our business, financial condition, results of operations and cash flows.

## **Risks Related to Regulation and Compliance**

# Regulatory requirements applicable to our industries and changes in current and potential legislative and regulatory initiatives may adversely affect demand for our services.

Because the vast majority of our revenue is derived from a few industries, the federal, state, provincial and local regulations affecting those industries, including, among other things, environmental, safety, and permitting requirements, have a material effect on our business. In recent years, our customers have faced heightened regulatory requirements and increased regulatory enforcement, which have resulted in delays, reductions in scope and cancellations of projects. Furthermore, certain regulatory requirements applicable to our customers are also required of us when we contract with such customers, and our inability to meet those requirements could also result in decreased demand for our services. Concerns about climate-related issues could also potentially result in new legislation, regulatory actions or other requirements at the local, state or federal level, including as a result of the 2020 U.S. congressional and presidential elections. Such actions could negatively affect our customers and decrease demand for their services, result in increased costs associated with our operations, or impact the prices we charge our customers. For example, in January 2021, the new U.S. presidential administration issued an executive order directing all federal agencies to review and take action to address, among other things, any federal regulations, orders, guidance documents or policies promulgated during the prior presidential administration that may be inconsistent with the current administration's policies. Any new requirements to reduce, or taxes on the production and/or consumption of, fossil fuels could negatively impact the hydrocarbon production volumes of our customers, which could in turn negatively impact demand for our services. New regulations addressing greenhouse gas emissions from mobile sources could also significantly increase costs for our large rolling-stock fleet, render portions of our fleet obsolete or reduce the availability of vehicles we need to perform our services. In addition, if our ope

Additionally, current and potential legislative or regulatory initiatives may not result in incremental increased demand for our services, including legislation and regulation that mandate percentages of power to be generated from renewable sources, require utilities to meet reliability standards, and encourage installation of new electric power transmission and renewable energy generation facilities. While these actions and initiatives have positively impacted demand for our services in the past, it is not certain whether they will continue to do so in the future. It is also uncertain as to whether proposed legislative initiatives that could be beneficial for our industries, including those designed to ease regulatory and permitting requirements, will be enacted.

## Our unionized workforce and related obligations may adversely affect our operations.

As of December 31, 2020, approximately 34% of our employees were covered by collective bargaining agreements. For a variety of reasons, our unionized workforce could adversely impact relationships with our customers and adversely affect our business, financial condition, results of operations and cash flows. For instance, although the majority of the collective

bargaining agreements prohibit strikes and work stoppages, certain of our unionized employees have participated in strikes and work stoppages in the past and strikes or work stoppages could occur in the future. Our ability to complete future acquisitions also could be adversely affected because of our union status, including because our union agreements may be incompatible with the union agreements of a business we want to acquire or because a business we want to acquire may not want to become affiliated with a union-based company. Additionally, certain of our customers require or prefer a non-union workforce, and they may reduce the amount of work assigned to us if our non-union labor crews become unionized.

Our collective bargaining agreements generally require us to participate with other companies in multiemployer pension plans. To the extent a plan is underfunded, we may be subject to substantial liabilities if we withdraw or are deemed to withdraw from the plan or the plan is terminated or experiences a mass withdrawal. For example, we have been involved in several litigation matters associated with our withdrawal from the Central States, Southeast and Southwest Areas Pension Plan, certain of which were settled in 2017. Further, special funding and operational rules are generally applicable to multiemployer plans that are classified as "endangered," "seriously endangered" or "critical" status based on multiple factors (including, for example, the plan's funded percentage, cash flow position and a projected minimum funding deficiency). Plans in these classifications must adopt remedial measures, which may require additional contributions from employers (e.g., a surcharge on benefit contributions) and/or modifications to these plans in the future, which could negatively impact our business, financial condition, results of operations and cash flows.

### We could be adversely affected by our failure to comply with the laws applicable to our foreign activities.

Applicable U.S. and non-U.S. anti-corruption laws, including but not limited to the U.S. Foreign Corrupt Practices Act (FCPA), prohibit us from, among other things, corruptly making payments to non-U.S. officials for the purpose of obtaining or retaining business. We pursue certain opportunities in countries that experience government corruption, and in certain circumstances, compliance with these laws may conflict with local customs and practices. Our policies mandate compliance with all applicable anti-corruption laws and our procedures and practices are designed to ensure that our employees and intermediaries comply with these laws. However, there can be no assurance that such policies, procedures and practices will protect us from liability under the FCPA or other similar laws for actions or inadvertences by our employees or intermediaries. Liability for such actions or inadvertences could result in severe criminal or civil fines, penalties, forfeitures, disgorgements or other sanctions, which in turn could have a material adverse effect on our reputation, business, financial condition, results of operations, and cash flows. In addition, detecting, investigating and resolving actual or alleged violations can be expensive and consume significant time and attention of our senior management, in-country management, and other personnel.

### Compliance with and changes in tax laws could adversely affect our financial results.

We are subject to extensive tax liabilities imposed by multiple jurisdictions, including income taxes, indirect taxes (excise/duty, sales/use, gross receipts, and value-added taxes), payroll taxes, franchise taxes, withholding taxes, and ad valorem taxes. New tax laws, treaties and regulations and changes in existing tax laws, treaties and regulations are continuously being enacted or proposed, and significant changes could result from the change in control of the U.S. Congress and presidency in 2021, all of which can result in significant changes to the tax rate on our earnings and have a material impact on our earnings and cash flows from operations. Furthermore, the Biden administration has provided informal guidance on certain tax law changes that it would support, which includes, among other things, raising tax rates on both domestic and foreign income and imposing a new alternative minimum tax on book income. Since future changes to federal and state tax legislation and regulations are unknown, we cannot predict the ultimate impact such changes may have on our business.

In addition, significant judgment is required in determining our worldwide provision for income taxes. In the ordinary course of our business, there are many transactions and calculations where the ultimate tax determination is uncertain. We are regularly under audit by tax authorities, and our tax estimates and tax positions could be materially affected by many factors, including the final outcome of tax audits and related litigation, the introduction of new tax accounting standards, legislation, regulations and related interpretations, our global mix of earnings, our ability to realize deferred tax assets and changes in uncertain tax positions. A significant increase in our tax rate can have a material adverse effect on our profitability and liquidity.

### Our failure to comply with environmental laws and regulations could result in significant liabilities and increased costs.

Our operations are subject to various environmental laws and regulations, including those dealing with the handling and disposal of waste products, PCBs, fuel storage, water quality and air quality. We perform work in many different types of underground environments. If the field location maps supplied to us are not accurate, or if objects are present in the soil that are not indicated on the field location maps, our underground work could strike objects in the soil, some of which may contain pollutants. These objects may also rupture, resulting in the discharge of pollutants. In such circumstances, we may be liable for fines and damages, and we may be unable to obtain reimbursement from the parties providing the incorrect information. We also perform work, including directional drilling, in and around environmentally sensitive areas such as rivers, lakes and

wetlands. Due to the inconsistent nature of the terrain and water bodies, it is possible that such work may cause the release of subsurface materials that contain contaminants in excess of amounts permitted by law, potentially exposing us to remediation costs and fines. Additionally, we own and lease facilities that contain above- and below-ground fuel storage tanks, which could leak and cause us to be responsible for remediation costs and fines. The obligations, liabilities, fines and costs associated with these and other events can be material and could have a material adverse impact on our business, financial condition, results of operations and cash flows. Moreover, new laws and regulations or the stricter enforcement of existing laws and regulations, including as a result of the change in control of the U.S. Congress and presidency in 2021, as well as the discovery of previously unknown contamination or leaks or the imposition of new clean-up requirements, could require us to incur significant costs or become the basis for new or increased liabilities.

In certain instances, we have obtained indemnification and other rights from third parties (including predecessors or lessors) for such obligations and liabilities; however, these indemnities may not cover all of our costs and indemnitors may not pay amounts owed to us. Further, in connection with an acquisition, we cannot be certain that we identify all potential environmental liabilities relating to any acquired business when we are negotiating an indemnification right.

# Certain regulatory requirements applicable to us and certain of our subsidiaries could materially impact our business.

We are subject to various specific regulatory regimes and requirements that could result in significant compliance costs and liabilities. As a public company, we are subject to various corporate governance and financial reporting requirements, including requirements for management to report on our internal controls over financial reporting and for our independent registered public accounting firm to express an opinion on the operating effectiveness of our internal control over financial reporting. Our internal control over financial reporting was effective as of December 31, 2020; however, there can be no assurance that our internal control over financial reporting will be determined to be effective in future years. Failure to maintain effective internal controls or to identify significant internal control deficiencies in acquired businesses (both prior acquisitions and future acquisitions) could result in a decrease in the market value of our publicly traded securities, a reduced ability to obtain debt and equity financing, a loss of customers, fines or penalties, and/or additional expenditures to meet the requirements or remedy any deficiencies.

Additionally, one of our subsidiaries has registered as an investment adviser with the SEC under the U.S. Investment Advisers Act of 1940, as amended (the Advisers Act), which imposes substantive and material restrictions and requirements on the operations of this subsidiary, including certain fiduciary duties that apply to its relationships with its advisory clients. The SEC has broad administrative powers to institute proceedings and impose sanctions for violations of the Advisers Act, ranging from fines and censures to termination of an adviser's registration. This subsidiary is also subject to periodic SEC examinations and other requirements, including, among other things, maintaining an effective compliance program, recordkeeping and reporting requirements, disclosure requirements and complying with anti-fraud prohibitions. The failure of our subsidiary to comply with the requirements of the Advisers Act could result in fines, suspensions of individual employees or other sanctions against our subsidiary or its employees were small in monetary amount, the adverse publicity relating to an investigation, proceeding or imposition of these fines or sanctions could harm our reputation and have a material adverse effect on us.

Furthermore, our wholly-owned captive insurance company is a registered insurance company with the Texas Department of Insurance, and therefore is subject to various rules and regulations and required to meet certain capital requirements, which can result in additional use of our resources. Our postsecondary educational institution is subject to authorization and regulatory oversight in the various states in which it operates, and failure to comply with these requirements could result in significant monetary damages or subject these entities to fines, limitations on operations, injunctions or other penalties. The postsecondary educational institution is also accredited by the Accrediting Commission of Career Schools and Colleges, and loss of accreditation could result in reputational harm or student-initiated litigation or negatively impact our ability to train skilled personnel that can be utilized to support our business.

We also collect and retain information about our customers, stockholders, vendors and employees. Legislation and regulatory requirements, as well as contractual commitments, affect how we must store, use, transfer and process the confidential information of our customers, stockholders, vendors and employees. These laws, as well as other new or changing legislative, regulatory or contractual requirements concerning data privacy and protection, could require us to expend significant additional compliance costs, and any failure to comply with such requirements can result in significant liability or harm to our reputation.

### Opportunities within the government arena could subject us to increased regulation and costs and may pose additional risks relating to future funding and compliance.

Most government contracts are awarded through a regulated competitive bidding process, which can often be more time consuming than the bidding process for nongovernmental projects. Additionally, involvement with government contracts could require a significant amount of costs to be incurred before any revenues are realized. We are also subject to numerous procurement rules and other public sector regulations when we contract with certain governmental agencies, any deemed violation of which could lead to fines or penalties or a loss of business. Government agencies routinely audit and investigate government contractors and may review a contractor's performance under its contracts, cost structure and compliance with applicable laws, regulations and standards. If a government agency determines that costs were improperly allocated to specific contracts, such costs will not be reimbursed or a refund of previously reimbursed costs may be required. If a government agency alleges or proves improper activity, civil and criminal penalties could be imposed and serious reputational harm could result. Many government contracts must be appropriated each year, and without re-appropriation we would not realize all of the potential revenues from any awarded contracts. Additionally, U.S. government shutdowns or any related under-staffing of the government departments or agencies that interact with our business could result in program to perform on our existing U.S. government contracts and successfully compete for new work.

# Immigration laws, including our inability to verify employment eligibility and restrictions on movement of our foreign employees, could adversely affect our business or reputation.

We employ a significant number of employees, and while we utilize processes to assist in verifying the employment eligibility of potential new employees so that we maintain compliance with applicable laws, it is possible some of our employees may be unauthorized workers. In addition, we utilize certain non-immigrant visas to allow us to temporarily transfer certain of our foreign employees to the United States. The employment of unauthorized workers or failure to comply with the requirements of these non-immigrant visas could subject us to fines, penalties and other costs, as well as result in adverse publicity that negatively impacts our reputation and brand and may make it more difficult to hire and retain qualified employees. Furthermore, to the extent we are subject to penalties or delays that prevent the future transfer of our foreign employees to the United States, we may incur additional costs to hire and train new employees. For example, as a result of the COVID-19 pandemic, we have experienced delays and restrictions due to immigration processes that have prevented certain foreign workers from entering and working in the United States. Immigration laws have also been an area of considerable political focus in recent years, and, from time-to-time, the U.S. government considers or implements changes to federal immigration laws, regulations or enforcement programs. Changes in immigration or work authorization laws may increase our obligations for compliance and oversight, which could subject us to additional costs and potential liability and make our hiring and employee transfer processes more cumbersome, or reduce the availability of potential employees.

### **Risks Related to Financing Our Business**

## We may not have access in the future to sufficient funding to finance desired growth and operations.

If we cannot secure future funds or financing on acceptable terms or generate sufficient cash flow, we may be unable to support our future operations or growth strategy. The timing of our funding needs and the size of our operations and strategic initiatives that require capital cannot be readily predicted and may be substantial. We also rely on financing companies to fund the leasing of certain of our equipment, and credit market conditions may restrict access to capital for the leasing of additional equipment. A lack of available capital to fund the leasing of equipment could negatively impact our future operations.

The credit agreement for our senior credit facility and the indenture for our 2.900% Senior Notes due October 1, 2030 contain certain restrictions, including financial covenants and other restrictions on our ability to borrow amounts under the credit agreement and limitations on our ability to incur additional debt or conduct certain types of preferred equity financings. Our ability to increase the current commitments under our senior credit facility is also dependent upon additional commitments from our lenders. Furthermore, if we seek additional debt or equity financings, we cannot be certain they will be available to us on acceptable terms or at all, as banks are often restrictive in their lending practices, and our ability to access capital markets for financing could be limited by, among other things, our existing capital structure, our credit ratings, the state of the economy, the health of our industries, and the liquidity of the capital markets. For example, fluctuations in economic, political and market conditions as a result of the COVID-19 pandemic impacted lenders and capital markets during portions of 2020. If we are unable to borrow under our senior credit facility or secure other financing or if our lenders become unable or unwilling to fund their commitments to us, we may not be able to access the capital needed to fund our growth and operations, which could have a material adverse impact on our business, financial condition, results of operations and cash flows. For additional information on the terms of our senior credit facility and senior notes due 2030, please read Item 7. *Management's Discussion and Analysis of Financial Condition and Results of Operations - Debt Instruments.* 

Additionally, the market price of our common stock has fluctuated significantly in the past, and may fluctuate significantly in the future, in response to various factors, including events beyond our control, which could impact our ability to utilize capital markets to obtain funds. A variety of events may cause the market price of our common stock to fluctuate significantly, including overall market conditions or volatility, actual or perceived negative financial results or other unfavorable information relating to us or our market peers, and the other risks described in this Annual Report.

# We have a significant amount of debt, and our significant indebtedness could adversely affect our business, financial condition and results of operations and our ability to meet our payment obligations under our other debt.

We have a significant amount of debt and debt service requirements. As of December 31, 2020, we had approximately \$1.18 billion of outstanding long-term debt, and we had \$2.01 billion of undrawn borrowing capacity under our senior credit facility. This level of debt could have significant consequences on our future operations, including:

- making it more difficult for us to meet our payment and other obligations under our outstanding debt;
- resulting in an event of default if we fail to comply with the financial and other restrictive covenants contained in our debt agreements, which event of default could result in all of our debt becoming immediately due and payable;
- reducing the availability of our cash flows to fund working capital, capital expenditures, acquisitions or strategic investments, dividends and other general corporate purposes, and limiting our ability to obtain additional financing for these purposes;
- subjecting us to the risk of increasing interest expense on variable rate indebtedness, including borrowings under our senior credit facility;
- limiting our flexibility in planning for, or reacting to, and increasing our vulnerability to changes in our business, the industries in which we operate and the general economy;
- · limiting our ability to pursue business opportunities that become available to us; and
- placing us at a competitive disadvantage compared to our competitors that have less debt or are less leveraged.

Any of the above-listed factors could have an adverse effect on our business, financial condition and results of operations and our ability to meet our payment obligations on our existing indebtedness.

## Servicing our debt requires a significant amount of cash, and we may not have sufficient cash flow from our operations to pay our indebtedness.

Our ability to generate cash in order to make scheduled payments on the principal of, to pay interest on or to refinance our indebtedness depends on our future performance, which is subject to economic, financial, competitive, legislative, regulatory and other factors beyond our control. In addition, our ability to borrow funds in the future to make payments on our debt will depend on the satisfaction of the covenants in our senior credit facility and our other financing and other agreements we may enter into in the future. Specifically, we will need to maintain certain financial ratios. Our business may not continue to generate sufficient cash flow from operations in the future and future borrowings may not be available to us under our senior credit facility or from other sources in an amount sufficient to service our indebtedness to make necessary capital expenditures or to fund our other liquidity needs. If we are unable to generate cash from our operations or through borrowings, we may be required to adopt one or more alternatives, such as selling assets, restructuring debt or obtaining additional equity capital on terms that may be onerous or highly dilutive. Our ability to make payments on our factors including the state of the capital markets and our financial condition at such time, as well as the terms of our financing agreements. We may not be able to engage in any of these activities or engage in these activities on desirable terms, which could result in a default on our debt obligations.

### Our variable rate indebtedness subjects us to interest rate risk.

Borrowings under our senior credit facility are at variable rates of interest and expose us to interest rate risk. If interest rates increase, our debt service obligations on the variable rate indebtedness will increase even if the amount borrowed remains the same, and our net income and cash flows, including cash available for servicing our indebtedness, will correspondingly decrease. Our weighted average interest rate on our variable rate debt for the year ended December 31, 2020 was 2.1%. The annual effect on our pretax earnings of a hypothetical 50 basis point increase or decrease in variable interest rates would be approximately \$0.7 million based on our December 31, 2020 balance of variable rate debt.

Additionally, to address the transition in financial markets away from the London Interest Bank Offered Rate (LIBOR) by the end of 2021, our senior credit facility agreement includes provisions related to the replacement of LIBOR with a LIBOR Successor Rate (as defined in the credit agreement for such facility), which may be a rate based on the secured overnight financing rate published by the Federal Reserve Bank of New York. If no LIBOR Successor Rate has been determined at the time certain circumstances are present, the lenders' obligation to make or maintain loans based on a Eurocurrency rate could be suspended, and loans in U.S. dollars would default to the Base Rate (as described in *Senior Credit Facility* within Note 8 of the Notes to Consolidated Financial Statements in Item 8.*Financial Statements and Supplementary Data*) rather than a rate using the Eurocurrency Rate. Changing to an alternative interest rate or to the Base Rate may lead to additional volatility in interest rates and could cause our debt service obligations to increase significantly. If this were to occur, our available liquidity and cash flows could be negatively impacted.



### We may be unable to compete for projects if we are not able to obtain surety bonds, letters of credit or bank guarantees.

A portion of our business depends on our ability to provide surety bonds, letters of credit, bank guarantees or other financial assurances. Current or future market conditions, including losses incurred in the construction industry or as a result of large corporate bankruptcies, as well as changes in our sureties' assessment of our operating and financial risk, could cause our surety providers and lenders to decline to issue or renew, or substantially reduce the amount of, bid or performance bonds for our work and could increase our costs associated with collateral. These actions could be taken on short notice. If our surety providers or lenders were to limit or eliminate our access to bonding, letters of credit or guarantees, our alternatives would include seeking capacity from other sureties and lenders or finding more business that does not require bonds or that allows for other forms of collateral for project performance, such as cash. We may be unable to secure these alternatives in a timely manner, on acceptable terms, or at all, which could affect our ability to bid for or work on future projects requiring financial assurances.

Under standard terms in the surety market, sureties issue or continue bonds on a project-by-project basis and can decline to issue bonds at any time or require the posting of additional collateral as a condition to issuing or renewing bonds. If we were to experience an interruption or reduction in the availability of bonding capacity as a result of these or other reasons, we may be unable to compete for or work on certain projects that require bonding.

#### A downgrade in our debt rating could restrict our ability to access the capital markets.

The terms of our financings are, in part, dependent on the credit ratings assigned to our debt by independent credit rating agencies. We cannot provide assurance that our current credit rating will remain in effect for any given period of time or that it will not be lowered or withdrawn entirely by a rating agency. Factors that may impact our credit rating include, among other things, our debt levels and liquidity, capital structure, financial performance, planned asset purchases or sales, near- and long-term growth opportunities, customer base and market position, geographic diversity, regulatory environment, project performance and risk profile. A downgrade in our credit rating, particularly to non-investment grade levels, could limit our ability to access the debt capital markets or refinance our existing debt or cause us to refinance or issue debt with less favorable terms and conditions. An increase in the level of our indebtedness and related interest costs may increase our vulnerability to adverse general economic and and cash flows.

#### **Risks Related to Our Common Stock**

# Our sale or issuance of additional common stock or other equity-related securities could dilute each stockholder's ownership interest or adversely affect the market price of our common stock.

We often fund a significant portion of the consideration paid in connection with our acquisitions with the issuance of additional equity securities, including contingent consideration amounts payable if acquired businesses achieve certain performance objectives during specified post-acquisition periods. We also utilize stock-based compensation as a key component of our compensation program. We expect to issue additional equity securities in the future in connection with these and other practices. Our Restated Certificate of Incorporation provides that we may issue up to 600,000,000 shares of common stock, of which 138,300,191 shares were outstanding as of December 31, 2020. Any additional issuances of common stock would have the effect of diluting our earnings per share and our existing stockholders' individual ownership percentages and lead to volatility in the market price of our common stock. We cannot predict the effect that future issuances of our common stock or other equity-related securities would have

#### There can be no assurance that we will declare or pay future dividends on our common stock.

The declaration, amount and timing of future dividends are subject to capital availability and determinations by our Board of Directors that cash dividends are in the best interest of our stockholders and are in compliance with all respective laws and applicable agreements. Our ability to declare and pay dividends will depend upon, among other factors, our financial condition, results of operations, cash flows, current and anticipated expansion plans, requirements under Delaware law and other factors that our Board of Directors may deem relevant. A reduction in or elimination of our dividend payments could have a material negative effect on our stock price.

#### Certain provisions of our corporate governing documents could make an acquisition of our company more difficult.

The following provisions of our charter documents, as currently in effect, and Delaware law could discourage potential proposals to acquire us, delay or prevent a change in control of us or limit the price that investors may be willing to pay in the future for shares of our common stock:

• our certificate of incorporation permits our Board of Directors to issue "blank check" preferred stock and to adopt amendments to our bylaws;

# Attachment D

- our bylaws contain restrictions regarding the right of stockholders to nominate directors and to submit proposals to be considered at stockholder meetings;
- our certificate of incorporation and bylaws restrict the right of stockholders to call a special meeting of stockholders and to act by written consent; and
- we are subject to provisions of Delaware law which restrict us from engaging in any of a broad range of business transactions with an "interested stockholder" for a
  period of three years following the date such stockholder became classified as an interested stockholder.

# ITEM 1B. Unresolved Staff Comments

None.

# ITEM 2. Properties

#### Facilities

We lease office space for our corporate headquarters in Houston, Texas and own and lease other facilities throughout the United States, Canada, Australia and certain other foreign countries where we conduct business. These facilities are utilized for operations in both of our reportable segments and include offices, equipment yards, warehouses, storage, maintenance shops and training and educational facilities. As of December 31, 2020, we owned 67 of our facilities and leased the remainder. We believe that our existing facilities are suitable and adequate for our current needs; however, we continue to evaluate real estate strategies to support our recent growth.

# Equipment

We operate a fleet of owned and leased trucks and trailers, support vehicles and specialty construction equipment, such as bucket trucks, digger derricks, backhoes, excavators, trenchers, generators, boring machines, cranes, robotic arms, wire pullers, tensioners and helicopters. As of December 31, 2020, the total size of the rolling stock fleet was approximately 51,000 units. Most of our fleet is serviced by our own mechanics who work at various maintenance sites and facilities. We believe that our equipment is generally well maintained and is suitable and adequate for our present operations.

# ITEM 3. Legal Proceedings

We are from time to time party to various lawsuits, claims and other legal proceedings that arise in the ordinary course of business. These actions typically seek, among other things, compensation for alleged personal injury, breach of contract, negligence or gross negligence and/or property damage, environmental liabilities, wage and hour claims and other employment-related damages, punitive damages, consequential damages, civil penalties or other losses, or injunctive or declaratory relief. With respect to all such lawsuits, claims and proceedings, we record a reserve when it is probable that a loss has been incurred and the amount of loss can be reasonably estimated. In addition, we disclose matters for which management believes a material loss is at least reasonably possible. See Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*, which is incorporated by reference in this Item 3, for additional information regarding litigation, claims and other legal proceedings.

# ITEM 4. Mine Safety Disclosures

Not applicable.



Maximum

## PART II

# ITEM 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Our common stock is listed on the New York Stock Exchange (NYSE) under the symbol "PWR." On February 23, 2021, there were approximately 559 holders of record of our common stock. This number does not include stockholders for whom shares of our common stock are held in "nominee" or "street name." See Note 11 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for additional discussion of our equity securities.

# Unregistered Sales of Securities During the Fourth Quarter of 2020

On December 17, 2020, we completed an acquisition in which a portion of the consideration consisted of the unregistered issuance of shares of our common stock. The aggregate consideration paid at closing in the acquisition included 129,883 shares of our common stock, valued at \$7.4 million as of the acquisition date. For additional information about this acquisition, see Note 4 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*. The shares of common stock issued in this transaction were issued in reliance upon the exemption from registration provided by Section 4(a)(2) of the Securities Act of 1933, as amended, as the shares were issued to the owners of the business acquired in a privately negotiated transaction not involving any public offering or solicitation.

#### **Issuer Purchases of Equity Securities During the Fourth Quarter of 2020**

The following table contains information about our purchases of equity securities during the three months ended December 31, 2020.

Period	Total Number of Shares Purchased	verage Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Number (or Approxima Dollar Value) of Share That May Yet be Purchased Under the Plans or Programs		
October 1 - 31, 2020						
Open Market Stock Repurchases (1)		\$	_		\$	586,756,136
Tax Withholdings <sup>(2)</sup>	5,865	\$	53.56			
November 1 - 30, 2020						
Open Market Stock Repurchases <sup>(1)</sup>	297,232	\$	68.13	297,232	\$	566,506,467
Tax Withholdings <sup>(2)</sup>	9,380	\$	69.37			
December 1 - 31, 2020						
Open Market Stock Repurchases (1)	422,179	\$	70.35	422,179	\$	536,807,425
Tax Withholdings <sup>(2)</sup>	2,432	\$	66.70	_		
Total	737,088			719,411	\$	536,807,425

(1) Includes shares repurchased as of the trade date of such repurchases. On September 4, 2018, we issued a press release announcing that our Board of Directors approved a stock repurchase program that authorizes us to purchase, from time to time through June 30, 2021, up to \$500.0 million of our outstanding common stock. Additionally, on August 6, 2020, we issued a press release announcing that our Board of Directors approved a stock repurchase program that authorizes us to purchase, from time to time through June 30, 2021, up to \$500.0 million of our outstanding common stock. Additionally, on August 6, 2020, we issued a press release announcing that our Board of Directors approved a stock repurchase program that authorizes us to purchase, from time to time through June 30, 2023, up to an additional \$500.0 million of our outstanding common stock. Repurchases under these programs can be made in open market and privately negotiated transactions, at our discretion, based on market and business conditions, applicable contractual and legal requirements and other factors. These programs do not obligate us to acquire any specific amount of common stock and may be modified or terminated by our Board of Directors at any time at its sole discretion and without notice.

(2) Includes shares purchased from employees to satisfy tax withholding obligations in connection with the vesting of restricted stock unit and performance stock unit awards or the settlement of previously vested but deferred restricted stock unit and performance stock unit awards.

# Dividends

We have declared a quarterly dividend during each quarter beginning in the fourth quarter of 2018, and we currently expect that comparable cash dividends will continue to be paid for the foreseeable future. The declaration, payment and amount of future cash dividends will be at the discretion of our Board of Directors after taking into account various factors, including our financial condition, results of operations, cash flows from operations, current and anticipated capital requirements and expansion plans, income tax laws then in effect and the requirements of Delaware law. In addition, as discussed in *Liquidity and Capital Resources — Debt Instruments — Senior Credit Facility* in Item 7. *Management's Discussion and Analysis of Financial Condition and Results of Operations*, the credit agreement restricts the payment of cash dividends unless certain conditions are met.

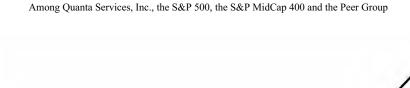
### **Performance Graph**

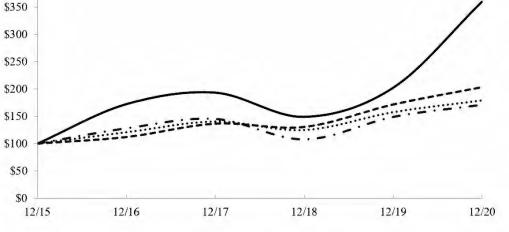
The following Performance Graph and related information shall not be deemed "soliciting material" or to be "filed" with the Securities and Exchange Commission, nor shall such information be incorporated by reference into any future filing under the Securities Act of 1933 or Securities Exchange Act of 1934, each as amended, except to the extent that we specifically incorporate it by reference into such filing.

The following graph compares, for the period from December 31, 2015 to December 31, 2020, the cumulative stockholder return on our common stock with the cumulative total return of the S&P 500 Index (the S&P MidCap 400 Index (the S&P MidCap 400) and a peer group selected by our management that includes public companies within our industries. The companies in the peer group were selected to represent a broad group of publicly held corporations with operations similar to ours, and includes AECOM, Dycom Industries, Inc., EMCOR Group Inc., Fluor Corporation, Jacobs Engineering Group Inc., KBR, Inc., MasTec, Inc., MYR Group Inc. and Primoris Services Corporation.

The graph below assumes an investment of \$100 (with reinvestment of all dividends) in our common stock, the S&P 500, the S&P MidCap 400 and the peer group on December 31, 2015 and tracks their relative performance through December 31, 2020. The returns of each company in the peer group is weighted based on the market capitalization of that company at the beginning of the measurement period. The stock price performance reflected in the following graph is not necessarily indicative of future stock price performance.

COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN





Quanta Services, Inc. ----S&P 500 ······· S&P Midcap 400 - · - Peer Group

	December 31,									
	 2015	1000	2016		2017	ac.	2018	15	2019	 2020
Quanta Services, Inc.	\$ 100.00	\$	172.10	\$	193.14	\$	148.84	\$	202.18	\$ 359.36
S&P 500	\$ 100.00	\$	111.96	\$	136.40	\$	130.42	\$	171.49	\$ 203.04
S&P MidCap 400	\$ 100.00	\$	120.74	\$	140.35	\$	124.80	\$	157.49	\$ 179.00
Peer Group	\$ 100.00	\$	127.93	\$	145.15	\$	107.66	\$	148.80	\$ 170.91

# ITEM 6. Selected Financial Data

\$400

Part II, Item 6 is no longer required as we have adopted certain provisions within the amendments to Regulation S-K that eliminate Item 301.

# ITEM 7. Management's Discussion and Analysis of Financial Condition and Results of Operations

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our historical consolidated financial statements and related notes in Item 8. *Financial Statements and Supplementary Data*. The discussion below contains forward-looking statements that are based upon our current expectations and are subject to uncertainty and changes in circumstances. Actual results may differ materially from these expectations due to inaccurate assumptions and known or unknown risks and uncertainties, including those identified in *Cautionary Statement About Forward-Looking Statements and Information* above and Item 1A. *Risk Factors*.

# Overview

We are a leading provider of specialty contracting services, delivering comprehensive infrastructure solutions for the electric and gas utility, communications, pipeline and energy industries in the United States, Canada, Australia and select other international markets. The performance of our business generally depends on our ability to obtain contracts with customers and to effectively deliver the services provided under those contracts. The services we provide include the design, engineering, new construction, upgrade and repair and maintenance of infrastructure within each of the industries we serve, such as electric power transmission and distribution networks; substation facilities; communications and cable multi-system operator networks; gas utility systems; and pipeline transmission systems and facilities. Our customers include many of the leading companies in the industries we serve, and we endeavor to develop and maintain strategic alliances and preferred service provider status with our customers. Our services are typically provided pursuant to master service agreements, repair and maintenance contracts and fixed price and non-fixed price new construction contracts.

We report our results under two reportable segments: (1) Electric Power Infrastructure Solutions and (2) Underground Utility and Infrastructure Solutions, as further described in Item 1. *Business – Reportable Segments*. This structure is generally focused on broad end-user markets for our services. Included within the Electric Power Infrastructure Solutions segment are the results related to our communications infrastructure services.

### Current Year Financial Results and Significant Operational Trends and Events

Key financial results for the year ended December 31, 2020 included:

- Consolidated revenues decreased 7.5% to \$11.20 billion as compared to \$12.11 billion for the year ended December 31, 2019;
- Operating income increased 10.2%, or \$56.5 million, to \$611.4 million as compared to \$554.9 million for the year ended December 31, 2019;
- Net income attributable to common stock increased 10.8%, or \$43.6 million, to \$445.6 million as compared to \$402.0 million for the year ended December 31, 2019;
- Diluted earnings per share increased 12.5%, or \$0.34, to \$3.07 as compared to \$2.73 for the year ended December 31, 2019;
- EBITDA (a non-GAAP measure) increased 10%, or \$85.8 million, to \$922.7 million as compared to \$836.9 million for the year ended December 31, 2019, and adjusted EBITDA (a non-GAAP measure) increased 11%, or \$108.1 million, to \$1.05 billion as compared to \$941.8 million for the year ended December 31, 2019;
- Net cash provided by operating activities increased 111.9%, or \$589.4 million, to \$1.12 billion as compared to \$526.6 million for the year ended December 31, 2019;
- Remaining performance obligations decreased 24.8%, or \$1.32 billion, to \$3.99 billion as of December 31, 2020 as compared to \$5.30 billion as of December 31, 2019; and
- Total backlog (a non-GAAP measure) increased 0.8%, or \$127.5 million, to \$15.13 billion as of December 31, 2020 as compared to \$15.00 billion as of December 31, 2019.

For a reconciliation of EBITDA and adjusted EBITDA to net income attributable to common stock, their most comparable GAAP measure, and a reconciliation of backlog to remaining performance obligations, its most comparable GAAP measure, see *Non-GAAP Reconciliations* below.

During 2020, we were impacted by certain significant operational trends and events as compared to 2019 as described below.

Electric Power Infrastructure Solutions Segment

- Revenues increased by 9.1% to \$7.77 billion, as compared to \$7.12 billion. Overall, revenues increased as a result of continued favorable dynamics across our core
  utility market and increased demand for our electric power services, including a \$220 million increase in emergency restoration services revenues and a \$125 million
  increase in revenues from our North American communication operations. We also recognized approximately \$175 million of incremental revenues from acquired
  businesses and increased revenues from larger transmission projects in Canada.
- Operating income increased by 39.8% to \$826.3 million, as compared to \$591.2 million, and operating income as a percentage of revenues increased to 10.6% as compared to 8.3%. Operating income increased primarily due to improved performance across the segment and increased emergency restoration services and Canadian revenues, both of which contributed to improved equipment utilization and fixed cost absorption as compared to the year ended December 31, 2019, which was negatively impacted by elevated levels of unabsorbed costs due to severe weather and other delays on certain larger transmission projects in Canada.
- Operating income was negatively impacted in both periods by our Latin American operations, which have been adversely impacted by the COVID-19 pandemic due
  to shelter-in-place restrictions and other work disruptions. As a result of these factors, we accelerated various contract terminations and other activities in order to
  expedite cessation of operations in the region. We substantially completed our exit of this market as of December 31, 2020. During the year ended December 31,
  2020, these operations generated an operating loss of \$74.0 million. During the year ended December 31, 2019, these operations generated an operating loss of \$85.7
  million, which included the recognition of a \$79.2 million charge associated with a terminated telecommunications project in Peru, composed of a \$48.8 million
  reversal of revenues and a \$30.4 million increase in cost of services. See *Business Environment* below for additional information and discussion related to the exit of
  our Latin American operations.

Underground Utility and Infrastructure Solutions Segment

- Revenues decreased by 31.3% to \$3.43 billion, as compared to \$4.99 billion.
- Revenues associated with larger pipeline projects decreased by approximately \$830 million as a result of the industry entering the late-stage of the current construction cycle, as well as the next cycle of projects being delayed due to various factors, including among other things, permitting delays and worksite access limitations related to environmental regulations.
- The impact of the COVID-19 pandemic contributed to the decline in revenues and operating income. Specifically, shelter-in-place and worksite access restrictions in
  major metropolitan areas caused short-term disruptions for our gas utility customers in the first half of 2020, and a lack of demand for refined products during 2020
  resulted in project delays and deferrals that negatively impacted our high pressure and critical-path turn around services to the downstream and midstream energy
  markets.
- · Revenues were favorably impacted by approximately \$230 million of incremental revenues from acquired businesses.
- Operating income decreased by 48.8% to \$170.1 million, as compared to \$332.0 million, and operating income as a percentage of revenues decreased to 5.0%, as compared to 6.7%. Operating income and operating income as a percentage of revenues decreased primarily due to the decrease in revenues and the adverse effects of the COVID-19 pandemic and the overall challenged energy market on our operations.

During 2019, our results were also impacted by the recognition of \$60.3 million (\$43.9 million net of tax) of previously deferred earnings as a result of the completion of a larger transmission project in Canada and the subsequent recognition of a \$13.0 million gain (\$20.7 million with favorable tax benefits) related to the sale of our interest in such project. The gross amounts related to which are recorded as equity in earnings of unconsolidated affiliates included in "Other income (expense), net" in our consolidated statements of operations.

See COVID-19 Pandemic - Response and Impact, Results of Operations and Liquidity and Capital Resources below for additional information and discussion related to our consolidated and segment results.

#### Debt Issuance and Amendment and Extension of Senior Credit Facility

On September 22, 2020, we issued \$1.00 billion aggregate principal amount of 2.900% Senior Notes due October 1, 2030 (the senior notes) and received proceeds of \$986.7 million, net of the original issue discount, underwriting discounts and debt issuance costs. We used the net proceeds, together with cash on hand, to voluntarily prepay \$1.21 billion of term loans then-outstanding under our senior credit facility, which had a maturity date in October 2022. Additionally, we entered into an amendment to the credit agreement for our senior credit facility (the credit agreement) that, among other things, increased the aggregate revolving commitments from \$2.14 billion to \$2.51 billion, extended the maturity date from October 31, 2022 to September 22, 2025, released the liens on the collateral securing our obligations thereunder, released the subsidiary guarantors from their guarantees of such obligations and removed the collateral reinstatement provision that would have applied in the event our corporate credit rating were to fall below an investment grade rating. See *Liquidity and Capital Resources – Debt Instruments* for additional information on the senior notes issuance and the amendment to our credit agreement.

## **Recent Acquisitions**

We continue to selectively evaluate acquisitions as part of our overall business strategy and acquired seven businesses in the year ended December 31, 2020. These acquired businesses enhanced and expanded, among other things, our services related electric power distribution, transmission and substation maintenance; our directional boring and emergency restoration services capabilities; our engineering and design services for electric utilities, gas utilities and communications services companies; our aviation services for the utility industry; our capabilities with respect to underground conduit services and short- and long-haul fiber optic cable and utilities; our services to provide heavy, civil, industrial and energy related services and construction and maintenance of pipelines and metering stations; and our industrial services business. During the year ended December 31, 2020, revenues were positively impacted by approximately \$405 million from acquired businesses.

#### Puerto Rico Joint Venture

Additionally, during the year ended December 31, 2020, a joint venture in which we own a 50% interest, LUMA Energy, LLC (LUMA), was selected for a 15-year operation and maintenance agreement to operate, maintain and modernize the approximately 18,000-mile electric transmission and distribution system in Puerto Rico. The 15-year operation and maintenance period is scheduled to begin following a transition period that is expected to end in mid-2021. During the transition period, LUMA will complete numerous steps necessary to transition operation and maintenance from the current operator and receives a fixed transition services fee, payable in monthly installments, and is reimbursed for costs and expenses. During the operation and maintenance period, LUMA will continue to be reimbursed for costs and expenses and will receive a fixed annual management fee, with the opportunity to receive additional annual performance-based incentive fees. LUMA will not assume ownership of any electric transmission and distribution system assets and will not be responsible for operation of the power generation assets. LUMA is operationally integral to our operations, and therefore our share of LUMA's net income or losses is reported within operating income and reflected within the Electric Power Infrastructure Solutions segment.

#### **COVID-19** Pandemic – Response and Impact

During 2020 and the first part of 2021, the COVID-19 pandemic has significantly impacted global economies, resulting in workforce and travel restrictions, supply chain and production disruptions and reduced demand and spending across many sectors. We continue to operate substantially all of our activities as a provider of essential services. In response to the pandemic, we have implemented proactive measures to protect the health and safety of our employees, such as the adoption of specialized training initiatives and the utilization of additional protective equipment for our employees operating in the field and additional sanitation measures for our offices, vehicles and equipment, as well as reduced non-essential business travel, applied work-from-home policies where appropriate and developed other human resource guidance to help employees.

During 2020, our results were adversely impacted by the COVID-19 pandemic as a result of disruptions in our operations created by shelter-in-place restrictions in certain service areas, primarily during the first and second quarters of 2020 and in major U.S. metropolitan markets that have been meaningfully impacted by the pandemic. While the significant adverse impacts resulting from these shelter-in-place restrictions subsided in the second half of 2020, the possibility of future restrictions remains. The COVID-19 pandemic has also compounded broader challenges in the energy market that are affecting portions of our Underground Utility and Infrastructure Solutions segment. In particular, demand for our midstream and industrial services operations has declined as customers are reducing and deferring regularly scheduled maintenance and capital projects due to lack of demand for refined products. This dynamic had a materially negative impact on segment results during 2020 and is expected to continue to negatively impacted our Latin American operations due to shelter-in-place restrictions and other work disruptions in the region.

We are focused on maintaining a strong balance sheet to help us navigate the challenges presented by the COVID-19 pandemic. As of December 31, 2020, we had \$184.6 million of cash and cash equivalents and \$2.01 billion of availability under

our senior credit facility. We generated \$1.12 billion and \$526.6 million in cash flow from operations in the years ended December 31, 2020 and 2019. We continue to manage our costs through, among other things, reductions in discretionary spending, reductions in workforce at operations experiencing challenges, hiring and compensation increase deferrals, and deferrals of non-essential capital expenditures. Capital expenditures for 2020 were \$260.1 million, which was \$39.9 million less than our original estimate at the beginning of 2020. We plan to continue to maintain capital discipline and monitor rapidly changing market dynamics and adjust our costs and financing strategies accordingly, and we expect capital expenditures for 2021 to be approximately \$325 million.

As a result of the currently challenged energy market and recent oil price volatility, as well as the exacerbating effect of the COVID-19 pandemic, we assessed the expected negative impacts related to goodwill, intangible assets, long-lived assets, and investments as of the end of each quarter during 2020, including at December 31, 2020. We recognized \$18.0 million of impairments related to investments during the first and second quarters of 2020, as described further in *Results of Operations* below, and concluded that the impact of these effects was not likely to result in any other impairments of such assets at this time. As described further in Note 2 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*, we also performed our annual goodwill impairment test during the fourth quarter of 2020. We concluded that, although the fair value of certain reporting units within the Underground Utility and Infrastructure Solutions Division did not exceed their book value by 10% or more, no goodwill impairments had occurred as of December 31, 2020. We are continuing to monitor the actual and forecasted financial results of our reporting units, and the potential future impacts are uncertain and may change based on numerous factors.

During 2020, the U.S. federal government also enacted the Coronavirus Aid, Relief, and Economic Security Act (the CARES Act), which provides for various tax relief and tax incentive measures. These measures are not expected to have a material impact on our results of operations. However, pursuant to the CARES Act , we deferred the payment of \$108.9 million of the employer portion of payroll taxes during the year ended December 31, 2020, 50% of which are due by December 31, 2021 and the remainder of which are due by December 31, 2022.

The broader and longer-term implications of the COVID-19 pandemic on our results of operations and overall financial performance and position remain highly uncertain and variable, and we expect continued operational challenges in 2021 for portions of our operations as we continue to operate during this unprecedented and unpredictable health and economic environment. The future impact that the pandemic, or any resulting market disruption and volatility, will have on our business, cash flows, liquidity, financial condition and results of operations will depend on future developments, including, among others, the ongoing spread of COVID-19 and the duration and severity of the pandemic; the development, availability and administration of effective treatments and vaccines; the actions taken by governmental authorities, customers, suppliers and other third parties and the consequences of those actions; our workforce availability in light of potential increased spread of COVID-19; and the timing and extent to which normal economic and operating conditions resume and continue. For additional discussion regarding risks associated with the COVID-19 pandemic, see Item 1A. *Risk Factors* of this Annual Report.

#### **Business Environment**

Despite the challenges presented by the COVID-19 pandemic, we believe there are long-term growth opportunities across our industries, and we continue to have a positive long-term outlook. Although not without risks and challenges, including those discussed in *Overview* and *Cautionary Statement About Forward-Looking Statements and Information* above and Item 1A. *Risk Factors* of this Annual Report, we believe, with our full-service operations, broad geographic reach, financial position and technical expertise, we are well positioned to capitalize on opportunities and trends in our industries.

*Electric Power Infrastructure Solutions Segment.* Utilities are investing significant capital in their electric power delivery systems, particularly transmission, substation and distribution infrastructure, through multi-year, multi-billion dollar grid modernization and reliability programs, which have provided, and are expected to continue to provide, demand for our services. Utilities are accommodating a changing fuel generation mix that is moving toward more sustainable sources such as renewables and natural gas and replacing aging infrastructure to support long-term economic growth. In order to reliably and efficiently deliver power, and in response to federal reliability standards, utilities are also integrating smart grid technologies into distribution systems in order to improve grid management and create efficiencies, and in preparation for emerging technologies such as electric vehicles. A number of utilities have and continue to implement system upgrades or hardening programs in response to recurring severe weather events, such as hurricanes and wildfires, and in particular there are significant system resiliency initiatives in California and other regions in the western U.S. underway that are designed to prevent and manage the impact of wildfires. These resiliency initiatives provide additional opportunities for our services; however, they also increase our potential exposure to significant liabilities attributable to those events.

While the COVID-19 pandemic has resulted in an overall decline in electricity usage in the near term, primarily related to commercial and industrial users, we expect demand for electricity in North America to grow over the long term and believe that certain segments of the North American electric power grid are not adequate to efficiently serve the power needs of the future. Furthermore, to the extent that electrification trends increase, including electric vehicle (EV) adoption, demand for electricity

could be greater than currently anticipated. As demand for power increases, we also expect an increase in new power generation facilities powered by renewable energy sources (e.g. solar and wind) and certain traditional energy sources (e.g., natural gas). To the extent this dynamic continues, we expect continued demand for new or expanded transmission and substation infrastructure to transport power and interconnect new generation facilities and the modification and reengineering of existing infrastructure as existing coal and nuclear generation facilities are retired or shut down.

With respect to our communications service offerings, consumer and commercial demand for communication and data-intensive, high-bandwidth wireline and wireless services and applications is driving significant investment in infrastructure and the deployment of new technologies. In particular, communications providers in North America are in the early stages of developing new fifth generation wireless services (5G), which are intended to facilitate bandwidth-intensive services at high speeds for consumers and a wide range of commercial applications. Additionally, the Federal Communications Commission has enacted a program to deploy more than \$20 billion in federal funds to bring high speed fixed broadband service to underserved rural homes and small businesses through the Rural Digital Opportunity Fund. As a result of these industry trends, we believe there will be meaningful demand for our engineering and construction services in that market. We have strategically focused our communications services on the North America market, and during 2019 and 2020 we have substantially completed the exit of our Latin American communications operations. While we have incurred costs related to exiting these operations, we anticipate this decision will result in improved profitability of our overall services offerings.

Underground Utility and Infrastructure Solutions Segment. For several years we have focused on increasing our underground utility and infrastructure solutions related to specialty services and industries that we believe are driven by regulated utility spending, regulation, replacement and rehabilitation of aging infrastructure and safety and environmental initiatives, which we believe provide a greater level of business sustainability and predictability. These service offerings include gas utility services, pipeline integrity services and downstream industrial services, all of which we have expanded through organic growth, geographic expansion initiatives and select acquisitions. This strategy is also intended to mitigate the seasonality and cyclicality of our larger pipeline project activities, which we are not strategically investing in but continue to pursue to the extent they satisfy our margin and risk profiles and support the needs of our customers.

As discussed in *COVID-19 Pandemic - Response and Impact*, though we experienced short-term disruptions in 2020 due to the impact of the COVID-19 pandemic in certain metropolitan markets, we believe demand for our gas utility distribution services will increase as a result of customer desire to upgrade and replace aging infrastructure, lower natural gas prices, and increasing regulatory requirements. In particular, natural gas utilities have implemented multi-decade modernization programs to replace aging cast iron, bare steel, gas and plastic system infrastructure with modern materials for safety, reliability and environmental purposes.

We believe there are also growth opportunities for our pipeline integrity, rehabilitation and replacement services, as regulatory measures have increased the frequency or stringency of pipeline integrity testing requirements. Regulatory requirements continue to mandate or require our customers to test, inspect, repair, maintain and replace pipeline infrastructure to ensure that it operates safely, reliably and in an environmentally conscious manner. Further, permitting challenges associated with construction of new pipelines can make existing pipeline infrastructure more valuable, motivating owners to extend the useful life of existing pipeline assets through integrity initiatives. Due to these dynamics, we expect demand to continue to grow for our pipeline integrity services.

The COVID-19 pandemic and challenging overall energy market conditions have resulted in an overall decline in global demand for refined products during 2020 and thus far in 2021, which has negatively impacted our critical path services and related specialty services to refinery and chemical processing facilities that are primarily along the Gulf Coast of the United States and in other select markets in North America. While demand for our critical path catalyst services has remained solid, in the second half of 2020 customers began reducing onsite activity for our other services and have deferred maintenance and certain turnaround projects to late 2021 and 2022. We believe there are significant long-term opportunities for our services, including our high-pressure and critical-path turnaround services, as well as our capabilities with respect to instrumentation and electrical services, piping, fabrication and storage tanks services, and other industrial services, and that processing facilities located along the U.S. Gulf Coast region should have certain long-term strategic advantages due to their proximity to affordable hydrocarbon resources. However, these processing facilities can also be negatively impacted for short-term periods due to severe weather events, such as hurricanes, tropical storms and floods.

The broader oil and gas industry is highly cyclical and subject to price volatility, such as the current low commodity price environment, which can impact demand for our services. For example, certain of our end markets where the price of oil is influential, such as Australia, the Canadian Oil Sands and certain oil-driven U.S. shale formations, have been materially impacted by the current challenged energy market. Furthermore, we have entered the late-stage of the current construction cycle of larger pipeline projects, as well as the next cycle of projects are being delayed due to various factors including, among other things, permitting delays and worksite access limitations related to environmental regulations. For example, during 2020 an approximately 600-mile natural gas pipeline under construction in the eastern United States, for which we had been contracted

to construct a portion of, was terminated due to, among other things, continued regulatory delay and risk. As such, our revenues related to larger pipeline projects have declined significantly over the last few years, including by approximately \$830 million from 2019 to 2020.

Due to its abundant supply and current low price, we believe natural gas will remain a fuel of choice for both primary power generation and backup power generation for renewable-driven power plants in North America. The favorable characteristics of natural gas also position North America as a leading competitor in the global LNG export market, which has the potential to continue to grow over the coming years as approved and proposed LNG export facilities are developed. In certain areas, the existing pipeline system infrastructure is insufficient to support these expected future developments, which could provide additional opportunities for our services.

Regulatory Challenges and Opportunities. The regulatory environment creates both challenges and opportunities for our business, and in recent years electric power and underground utility infrastructure margins have been impacted by regulatory and permitting delays in certain periods, particularly with respect to larger electric transmission and larger pipeline projects. Regulatory and environmental permitting processes continue to create uncertainty for projects and negatively impact customer spending, and delays have increased as the COVID-19 pandemic has impacted regulatory agency operations. For example, during 2020 a federal district court ruling vacated the U.S. Army Corps of Engineers Clean Water Act Section 404 Nationwide Permit 12, which has impacted certain projects and could result in increased costs and project interruptions or delays if we or our customers are forced to seek individual permits from the U.S. Army Corps of Engineers.

However, we believe that there are also several existing, pending or proposed legislative or regulatory actions that may alleviate certain regulatory and permitting issues and positively impact long-term demand, particularly in connection with electric power infrastructure and renewable energy spending. For example, regulatory changes affecting siting and right-of-way processes could potentially accelerate construction for transmission projects, and state and federal reliability standards are creating incentives for system investment and maintenance. We also consider renewable energy, including solar and wind generation facilities, to be an ongoing opportunity for our engineering, project management and installation services; however, the economic feasibility of some of these projects remains subject to the continued availability of tax incentive programs.

Labor Resource Availability. In addition to the health and safety measures we are taking to ensure labor resource availability during the COVID-19 pandemic, we continue to address the longer-term need for additional labor resources in our markets. Our customers continue to seek additional specialized labor resources to address an aging utility workforce and longer-term labor availability issues, increasing pressure to reduce costs and improve reliability, and increasing duration and complexity of their capital programs. We believe these trends will continue, possibly to the point where demand for labor resources will outpace supply. Furthermore, the cyclical nature of the natural gas and oil industry can create shortages of qualified labor in those markets during periods of high demand. Our ability to capitalize on available opportunities is limited by our ability to employ, train and retain the necessary skilled personnel, and we are taking proactive steps to develop our workforce, including through strategic relationships with universities, the military and unions and the expansion and development of our training facility and postsecondary educational institution. Although we believe these initiatives will help address workforce needs, meeting our customers' demand for labor resources could remain challenging.

Acquisitions and Investments. We believe potential acquisition and investment opportunities exist in our industries and adjacent industries, primarily due to the highly fragmented and evolving nature of those industries and inability of many companies to expand due to capital or liquidity constraints. We continue to evaluate opportunities that are expected to, among other things, broaden our customer base, expand our geographic area of operations, and grow and diversify our portfolio of services.

#### Significant Factors Impacting Results

Our revenues, margins and other results of operations can be influenced by a variety of factors in any given period, including those described in*Cautionary Statement* About Forward-Looking Statements and Information above and Item 1A. Risk Factors of this Annual Report, and those factors have caused fluctuations in our results in the past and are expected to cause fluctuations in our results in the future. Additional information with respect to certain of those factors is provided below.

Seasonality. Typically, our revenues are lowest in the first quarter of the year because cold, snowy or wet conditions can create challenging working environments that are more costly for our customers or cause delays on projects. In addition, infrastructure projects often do not begin in a meaningful way until our customers finalize their capital budgets, which typically occurs during the first quarter. Second quarter revenues are typically higher than those in the first quarter, as some projects begin, but continued cold and wet weather can often impact productivity. Third quarter revenues are typically the highest of the year, as a greater number of projects are underway and operating conditions, including weather, are normally more accommodating. Generally, revenues during the fourth quarter are lower than the third quarter but higher than the second quarter, as many projects are completed and customers often seek to spend their capital budgets before year end. However, the holiday season and inclement weather can sometimes cause delays during the fourth quarter, reducing revenues and increasing

costs. These seasonal impacts are typical for our U.S. operations, but seasonality for our international operations may differ. For example, revenues in Canada are typically higher in the first quarter because projects are often accelerated in order to complete work while the ground is frozen and prior to the break up, or seasonal thaw, as productivity is adversely affected by wet ground conditions during warmer months. Additionally, as referenced above in *COVID-19 Pandemic – Response and Impact*, portions of our operations experienced significant challenges during the second quarter of 2020 as a result of the COVID-19 pandemic, which impacted typical seasonality, and we believe that the ongoing impact of the pandemic could impact our typical seasonality in 2021.

Weather, natural disasters and emergencies. The results of our business in a given period can be impacted by adverse weather conditions, severe weather events, natural disasters or other emergencies, which include, among other things, heavy or prolonged snowfall or rainfall, hurricanes, tropical storms, tornadoes, floods, blizzards, extreme temperatures, wildfires, pandemics (including the ongoing COVID-19 pandemic) and earthquakes. These conditions and events can negatively impact our financial results due to, among other things, the termination, deferral or delay of projects, reduced productivity and exposure to significant liabilities. See COVID-19 Pandemic – Response and Impact above for further discussion regarding the current and expected impact of the COVID-19 pandemic. However, in some cases, severe weather events can increase our emergency restoration services, which typically yield higher margins due in part to higher equipment utilization and absorption of fixed costs.

Demand for services. We perform the majority of our services under existing contracts, such as master service agreements (MSAs) and/or strategic alliances, pursuant to which our customers assign work to us over the term of the agreement. Typically under our MSAs and similar agreements, our customers are not committed to specific volumes of our services. Therefore, our volume of business can be positively or negatively affected by fluctuations in demand for our services, which may vary by geographic region. For example, to the extent our customers accelerate grid modernization or hardening programs or face deadlines to meet regulatory requirements for rehabilitation, reliability or efficiency, our volume of work could increase under existing agreements. Also, as described above in *COVID 19 Pandemic – Response and Impact*, we have experienced reductions in demand for certain of our services as a result of disruptions due to shelter-in-place and worksite access restrictions and delays in regulatory agency operations due to the COVID-19 pandemic, as well as the decline in commodity prices and decreased demand for refined products. Examples of other items that may cause demand for our services to fluctuate materially from quarter to quarter include: the financial condition of our customers, their capital spending and their access to capital; economic and political conditions on a regional, national or global scale, including interest rates, governmental regulations affecting the sourcing of certain materials and equipment, and other changes in U.S. and global trade relationships; and project deferrals and cancellations.

Revenue mix and impact on margins. The mix of revenues based on the types of services we provide in a given period will impact margins, as certain industries and services provide higher-margin opportunities. Larger or more complex projects with higher voltage capacities; larger-diameter throughput capacities; increased engineering, design or construction complexities; more difficult terrain or geographical requirements; or longer distance requirements typically yield opportunities for higher margins than our recurring services described above, as we assume a greater degree of performance risk and there is greater utilization of our resources for longer construction timeframes. However, larger projects are subject to additional risk of regulatory delay and cyclicality. For example, our revenues with respect to larger electric transmission and pipeline projects have declined significantly in recent years, and a significant number of larger projects have been delayed or cancelled during that same period. Project schedules also fluctuate, particularly in connection with larger, more complex or longer-term projects, which can affect the amount of work performed in a given period. Furthermore, smaller or less complex projects typically have a greater number of companies competing for them, and competitors at times may more aggressively pursue available work. A greater percentage of smaller scale or less complex work also could negatively impact margins due to the inefficiency of transitioning between a larger number of smaller projects when they move forward.

Project variability and performance. Margins for a single project may fluctuate period to period due to changes in the volume or type of work performed, the pricing structure under the project contract or job productivity. Additionally, our productivity and performance on a project can vary period to period based on a number of factors, including unexpected project difficulties or site conditions (including in connection with difficult geographic characteristics); project location, including locations with challenging operating conditions; whether the work is on an open or encumbered right of way; inclement weather or severe weather events; environmental restrictions or regulatory delays; protests, other political activity or legal challenges related to a project; and the performance of third parties. Moreover, we currently generate, and expect to continue generating, a significant portion of our revenues under fixed price contracts, and fixed price contracts are more common in connection, with our larger and more complex projects that typically involve greater performance risk. Under these contracts, we assume risks related to project estimates and execution, and project revenues can vary, sometimes substantially, from our original projections due to a variety of factors, including the additional complexity, timing uncertainty or extended bidding, regulatory and

permitting processes associated with these projects. These variations can result in a reduction in expected profit or the incurrence of losses on a project, and as discussed in further detail in Note 2 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplemental Data* of this Annual Report, we have experienced significant project losses in connection with fixed price contracts that have impacted our results.

Subcontract work and provision of materials. Work that is subcontracted to other service providers generally yields lower margins, and therefore an increase in subcontract work in a given period can decrease margins. In recent years, we have subcontracted approximately 15% to 20% of our work to other service providers. Our customers are usually responsible for supplying the materials for their projects; however, under some contracts we agree to procure all or part of the required materials. Margins may be lower on projects where we furnish a significant amount of materials, including projects where we provide engineering, procurement and construction (EPC) services, as our markup on materials is generally lower than our markup on labor costs. Furthermore, fluctuations in the price or availability of materials and equipment we or our customers procure, including as a result of changes in U.S. or global trade relationships, governmental regulations affecting the sourcing of certain materials and equipment or other requirements may decrease our overall margins.

*Foreign currency risk.* Our financial performance is reported on a U.S. dollar-denominated basis but is partially subject to fluctuations in foreign currency exchange rates. Fluctuations in exchange rates relative to the U.S. dollar, primarily Canadian and Australian dollars, can materially impact margins and comparisons of our results of operations between periods.

## **Results of Operations**

The results of acquired businesses have been included in the following results of operations beginning on their respective acquisition dates. A discussion of results of operations changes between the years ended December 31, 2019 and 2018 is included in Item 7. *Management's Discussion and Analysis of Financial Condition and Results of Operations* of our Annual Report on Form 10-K for the year ended December 31, 2019, which was filed with the SEC on February 28, 2020. The following table sets forth selected statements of operations data, such data as a percentage of revenues for the years indicated as well as the dollar and percentage change from the prior year (dollars in thousands):

# **Consolidated Results**

			Year Ended De		Change		
		2020		2019		\$	%
Revenues	\$	11,202,672	100.0 % \$	5 12,112,153	100.0 %	\$ (909,481)	(7.5)%
Cost of services (including depreciation)		9,541,825	85.2	10,511,901	86.8	(970,076)	(9.2)%
Gross profit		1,660,847	14.8	1,600,252	13.2	60,595	3.8 %
Equity in earnings of integral unconsolidated affiliates		11,303	0.1	_	_	11,303	*
Selling, general and administrative expenses		(975,074)	(8.7)	(955,991)	(7.9)	(19,083)	2.0 %
Amortization of intangible assets		(76,704)	(0.6)	(62,091)	(0.5)	(14,613)	23.5 %
Asset impairment charges		(8,282)	(0.1)	(13,892)	(0.1)	5,610	(40.4)%
Change in fair value of contingent consideration liabilities		(719)	_	(13,404)	(0.1)	12,685	(94.6)%
Operating income	_	611,371	5.5	554,874	4.6	56,497	10.2 %
Interest expense		(45,013)	(0.4)	(66,890)	(0.6)	21,877	(32.7)%
Interest income		2,449	_	927	_	1,522	164.2 %
Other income (expense), net		2,539	_	83,376	0.7	(80,837)	(97.0)%
Income before income taxes		571,346	5.1	572,287	4.7	(941)	(0.2)%
Provision for income taxes		119,387	1.1	165,472	1.3	(46,085)	(27.9)%
Net income	_	451,959	4.0	406,815	3.4	45,144	11.1 %
Less: Net income attributable to non-controlling interests		6,363	_	4,771	0.1	1,592	33.4 %
Net income attributable to common stock	\$	445,596	4.0 % \$	\$ 402,044	3.3 %	\$ 43,552	10.8 %

\* The percentage change is not meaningful.

*Revenues.* Revenues decreased primarily due to a reduction in services related to larger pipeline transmission projects and the challenged energy market conditions, exacerbated by the impact of the COVID-19 pandemic, which resulted in a \$1.56 billion decrease in revenues from our Underground Utility and Infrastructure Solutions segment. This decrease was partially offset by a \$651.5 million increase in revenues from our Electric Power Infrastructure Solutions segment due to strong demand for our electric power services, including an increase in emergency restoration services revenues. See *Segment Results* below for additional information and discussion related to segment revenues.

Gross profit. The increase in gross profit was primarily due to increased earnings from electric power infrastructure solutions, partially offset by lower earnings from underground utility and infrastructure solutions primarily due to the decrease in revenues. See Segment Results below for additional information and discussion related to segment results.

Equity in earnings of integral unconsolidated affiliates The amount for the year ended December 31, 2020 primarily relates to the commencement of transition services under the agreement awarded to LUMA in June 2020 for the operation and maintenance of the electric transmission and distribution system in Puerto Rico.

Selling, general and administrative expenses. Contributing to the increase was a \$30.9 million increase in expenses associated with acquired businesses and a \$39.3 million increase in compensation expenses. The increase in compensation expense was largely associated with increased non-cash stock-based compensation expense, including a \$14.0 million correction of prior period amounts related to the valuation of and accounting for certain performance-based equity awards that were awarded during the years 2017 to 2019. Included in the correction was \$7.2 million of non-cash stock-based compensation related to 2019. Also contributing to the increase in non-cash stock-based compensation in 2020 was higher achievement under performance-based awards, as well as an increase in the amount of equity-based awards due to acquisitions and business growth. Partially offsetting these increases were decreases in certain expenses related to our cost containment measures in the current operating environment, including a \$22.1 million decrease in provision for credit losses. Selling, general and administrative expenses as a percentage of revenues increased to 8.7% for the year ended December 31, 2020 from 7.9% for the year ended December 31, 2019, primarily due to the decrease in revenues described above.

Amortization of intangible assets. The increase was primarily due to increased amortization of intangible assets associated with recently acquired businesses, partially offset by reduced amortization expense from previously acquired intangible assets, as certain of those assets became fully amortized.

Asset impairment charges. Management reviews long-lived assets for potential impairment whenever events or changes in circumstance indicate the carrying amount may not be realizable, which may arise in connection with regular evaluations as to whether business operations have the ability to contribute long-term strategic value. As part of such evaluations during the fourth quarter of 2020, we recognized \$8.3 million of asset impairment charges, \$7.0 million of which related to our Latin American operations and \$1.3 million of which related to the planned sale of certain equipment. During the fourth quarter of 2019, we recognized \$13.9 million of asset impairments primarily related to the winding down and exit of certain oil-influenced operations and assets, the replacement of an internally-developed software application and the planned sale of certain foreign operations and assets.

Change in fair value of contingent consideration liabilities. The overall changes were primarily due to changes in performance in post-acquisition periods by certain acquired businesses and the effect of present value accretion on fair value calculations. Further changes in fair value are expected to be recorded periodically until contingent consideration liabilities are settled. See Note 2 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for more information.

Interest expense. Interest expense decreased primarily due to a lower weighted average interest rate associated with our senior credit facility.

Other income (expense), net. The net other income for the year ended December 31, 2020 was primarily related to the receipt of an \$8.9 million favorable legal settlement, the favorable impact of \$5.2 million related to foreign currency transactions and a \$2.3 million dividend related to an investment in a water and gas pipeline infrastructure contractor located in Australia. Other income was partially offset by a \$9.3 million impairment associated with our investment in the same water and gas pipeline infrastructure contractor and \$8.7 million of impairments associated with two non-integral equity investments that have been negatively impacted by the recent decline in demand for refined petroleum products. The net other income for the year ended December 31, 2019 was primarily due to the recognition of earnings previously deferred in 2018 and 2017 on a large electric transmission project in Canada that was substantially completed and placed into commercial operation during the three months ended March 31, 2019. As a result of the project completion, we recognized \$60.3 million of earnings that were deferred in prior periods. Additionally, during the three months ended December 31, 2019, we recognized a gain of \$13.0 million related to the sale of our equity interest in the limited partnership that owned the project.

*Provision for income taxes.* The effective tax rates for the years ended December 31, 2020 and 2019 were 20.9% and 28.9%. The effective tax rate for the year ended December 31, 2020 was favorably impacted by a \$45.1 million reduction in our deferred tax asset valuation allowance related to foreign tax credits and \$8.2 million of tax benefits related to a decrease in reserves for uncertain tax positions, which resulted from the expiration of certain federal and state statutes of limitations periods. The effective tax rates for the years ended December 31, 2020 and 2019 include the impact of taxable losses of \$60.8 million and \$86.2 million associated with our Latin American operations, for which no income tax benefits was recognized. The effective tax rate for 2019 was also impacted by \$7.8 million of favorable tax benefits associated with the sale of our interest in the limited partnership referenced above and \$10.7 million of tax benefits related to decrease in reserves for uncertain tax positions, which primarily resulted from the expiration of certain federal and state statutes of limitations periods and the settlement of tax audits. Absent these items, the effective tax rates for December 31, 2020 and 27.9%. We expect our effective tax rate to be approximately 26.5% to 27.0% for 2021.

Other comprehensive income (loss), net of taxes. Other comprehensive income (loss) results from translation of the balance sheets of our foreign operating units, which are primarily located in Canada and Australia and have functional currencies other than the U.S. dollar, and therefore are affected by the strengthening or weakening of the U.S. dollar against such currencies. The gain in the year ended December 31, 2020 was impacted primarily by the weakening of the U.S. dollar against both the Australian and Canadian dollars as of December 31, 2020 when compared to December 31, 2019. The gain in the year ended December 31, 2019 was impacted primarily by the weakening of the U.S. dollar against the Canadian dollar as of December 31, 2019 when compared to December 31, 2018.

#### Segment Results

Reportable segment information, including revenues and operating income by type of work, is gathered from each operating unit for the purpose of evaluating segment performance. Classification of our operating unit revenues by type of work for segment reporting purposes can at times require judgment on the part of management. Our operating units may perform joint projects for customers in multiple industries, deliver multiple types of services under a single customer contract or provide service offerings to various industries. For example, we perform joint trenching projects to install distribution lines for electric power and natural gas customers. Our integrated operations and common administrative support for operating units require that certain allocations be made to determine segment profitability, including allocations of shared and indirect costs (e.g., facility costs), indirect operating expenses (e.g., depreciation), and general and administrative costs. Certain corporate costs are not allocated, including payroll and benefits, employee travel expenses, facility costs, professional fees, acquisition costs, non-cash stock-based compensation, amortization related to intangible assets, asset impairment related to goodwill and intangible assets and change in fair value of contingent consideration liabilities.

The following table sets forth segment revenues, segment operating income (loss) and operating margins for the periods indicated, as well as the dollar and percentage change from the prior period. Operating margins are calculated by dividing operating income by revenues. Management utilizes operating margins as a measure of profitability, which can be helpful for monitoring how effectively we are performing under our contracts. Management also believes operating margins are a useful metric for investors to utilize in evaluating our performance. The following table shows dollars in thousands.

				Change					
	_	2020			2019			\$	%
Revenues:									
Electric Power Infrastructure Solutions excluding Latin America	\$	7,765,742	69.3 %	\$	7,058,611	58.3 %	\$	707,131	10.0 %
Latin America		7,601	0.1		63,226	0.5		(55,625)	(88.0)%
Electric Power Infrastructure Solutions	_	7,773,343	69.4	_	7,121,837	58.8	_	651,506	9.1 %
Underground Utility and Infrastructure Solutions		3,429,329	30.6		4,990,316	41.2		(1,560,987)	(31.3)%
Consolidated revenues	\$	11,202,672	100.0 %	\$	12,112,153	100.0 %	\$	(909,481)	(7.5)%
Operating income (loss):									
Electric Power Infrastructure Solutions excluding Latin America	\$	889,010	11.4 %	\$	676,926	9.6 %	\$	212,084	31.3 %
Latin America		(73,988)	*		(85,749)	*		11,761	*
Equity in earnings of integral unconsolidated affiliates	_	11,303	N/A	_		N/A		11,303	*
Electric Power Infrastructure Solutions		826,325	10.6 %		591,177	8.3 %	-	235,148	39.8 %
Underground Utility and Infrastructure Solutions		170,074	5.0 %		332,011	6.7 %		(161,937)	(48.8)%
Corporate and non-allocated costs		(385,028)	N/A		(368,314)	N/A		(16,714)	4.5 %
Consolidated operating income	\$	611,371	5.5 %	\$	554,874	4.6 %	\$	56,497	10.2 %

\* The percentage change is not meaningful.

# **Electric Power Infrastructure Solutions Segment Results**

Overall, revenues increased as a result of continued favorable dynamics across our core utility market and increased demand for our electric power services, including a \$220 million increase in emergency restoration services revenues and a \$125 million increase in revenues from our North American communication operations. We also recognized approximately \$175 million of incremental revenues attributable to acquired businesses and increased revenues on larger transmission projects in Canada. These increases were partially offset by decreased revenues associated fire hardening programs in the western United States as compared to the year ended December 31, 2019.

We have substantially completed the exit of our Latin American operations as of December 31, 2020. These operations have been adversely impacted by the COVID-19 pandemic due to shelter-in-place restrictions and other work disruptions that resulted in our acceleration of various contract terminations and other activities during 2020 in order to expedite cessation of operations in the region. As a result of these factors, during the year ended December 31, 2020, our Latin American operations generated an operating loss of \$74.0 million, including \$7.0 million of asset impairment charges and \$2.7 million of regulatory required severance payments. During the year ended December 31, 2019, our Latin American operations generated an operating loss of \$85.7 million, which included a \$79.2 million charge associated with the termination of a telecommunications project in Peru, composed of a \$48.8 million reversal of revenues and a \$30.4 million increase in cost of services. The charge included a reduction of previously recognized earnings on the project, a reserve against a portion of the project costs incurred through the project termination date, a reserve against a portion of alleged liquidated damages and recognition of estimated costs to complete the project turnover and close out the project. See *Legal Proceedings* in Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplemental Data* of this Annual Report for additional information regarding this project.

Operating income and operating income as a percentage of revenues were positively impacted during the year ended December 31, 2020 by increased revenues from larger transmission projects in Canada and emergency restoration services revenues, both of which contributed to improved equipment utilization and fixed cost absorption. The year ended December 31, 2019 was negatively impacted by severe weather and other delays on certain larger transmission projects in Canada that resulted in elevated levels of unabsorbed costs. Partially offsetting these increases between periods was a reduction in fire

hardening services in the western United States during the year ended December 31, 2020. The equity in earnings of integral unconsolidated affiliates primarily relates to the commencement of transition services under the operation and maintenance agreement awarded to LUMA in June 2020.

#### Underground Utility and Infrastructure Solutions Segment Results

During the year ended December 31, 2020, reduced revenues associated with larger pipeline projects of approximately \$830 million significantly contributed to the overall decrease in segment revenues. Revenues associated with larger pipeline projects declined as a result of the industry entering the late-stage of the current construction cycle as well as the next cycle of projects being delayed due to various factors, including among other things, permitting delays and worksite access limitations related to environmental regulations. Revenues also declined due to lower demand for our services in end-markets where the price of oil is influential. Lastly, the COVID-19 pandemic resulted in reduced capital spending and deferred regularly scheduled maintenance by our midstream and industrial customers, and shelter-in-place and worksite access restrictions in major metropolitan areas caused short-term disruptions for our gas distribution customers. These decreases were partially offset by approximately \$230 million in incremental revenues from acquired businesses during 2020.

The decreases in operating income and operating income as a percentage of revenues were primarily due to the reduction of revenues, including revenues related to larger pipeline projects, which generally yield higher margins. Performance on contracts, including on larger pipeline projects, can vary based on several factors. For example, during the year ended December 31, 2020, adverse weather conditions across our Canadian larger pipeline projects negatively impacted operating income. However, the negative impact on these projects was offset by favorable factors on certain larger pipeline projects in the United States, including a contract termination that resulted in the recognition of previously deferred suspension and milestone payments.

Also contributing to the decrease in segment operating income were adverse impacts related to the COVID-19 pandemic and the overall challenged energy market, including lower revenues associated with industrial services, which negatively impacted margins and the ability to cover fixed and overhead costs, as discussed further above in *COVID-19 – Response and Impact*. Partially offsetting these adverse impacts were proactive cost management activities across the impacted operations. Operating income and operating income as a percentage of segment revenues in 2020 were also negatively impacted by \$4.1 million of severance and restructuring charges related to the exit of certain ancillary pipeline operations and \$1.3 million of asset impairment charges related to the planned sale of certain equipment. Operating income as a percentage of segment revenues 31, 2019 were negatively impacted by \$28.3 million of project losses associated with engineering and production delays on a processing facility project, which was completed as of December 31, 2020, and \$10.2 million of asset impairment charges from the winding down and exit of certain oil-influenced operations and assets.

#### Corporate and Non-allocated Costs

The increase in corporate and non-allocated costs was primarily due to a \$40.2 million increase in non-cash stock-based compensation, including a \$14.0 million correction of prior period amounts related to the valuation of and accounting for certain performance-based equity awards that were awarded during the years 2017 to 2019. Included in the correction was \$7.2 million of non-cash stock-based compensation related to 2019. Also contributing to higher non-cash stock-based compensation in 2020 was higher achievement under performance-based equity awards, as well as an increase in the amount of equity-based awards due to acquisitions and business growth. Additionally, the increase in corporate and non-allocated costs included a \$14.6 million increase in intangible asset amortization. Partially offsetting these increases were decreases in certain expenses related to our cost containment measures in the current operating environment, including a \$6.3 million decrease in travel and related expenses and a \$6.1 million decrease in costs associated with legal and other contracted services. Also partially offsetting the increase in acquisition and integration costs and. with respect to contingent consideration liabilities, a \$0.7 million increase in the fair value recognized during the year ended December 31, 2020 as compared to a \$13.4 million increase in the fair value recognized during the year ended December 31, 2019.

#### **Non-GAAP Reconciliations**

#### EBITDA and Adjusted EBITDA

EBITDA and adjusted EBITDA, measures not recognized under generally accepted accounting principles in the United States (GAAP), when used in connection with net income attributable to common stock, are intended to provide useful information to investors and analysts as they evaluate our performance. EBITDA is defined as earnings before interest, taxes, depreciation, amortization, equity in (earnings) losses of non-integral unconsolidated affiliates and interest, taxes depreciation and amortization of integral unconsolidated affiliates, and adjusted EBITDA is defined as EBITDA adjusted for certain other items as described below. These measures should not be considered as an alternative to net income attributable to common stock or other measures of performance that are derived in accordance with GAAP. Management believes that the exclusion of

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these items from net income attributable to common stock enables it to more effectively evaluate our operations period over period and to identify operating trends that might not be apparent when including the excluded items.

As to certain of the items below, (i) equity in (earnings) losses of non-integral unconsolidated affiliates varies from period to period depending on the activity and financial performance of non-integral unconsolidated affiliates, including deferral and subsequent recognition upon completion of construction of earnings on contracts performed for entities in which Quanta has an equity interest and gain or loss on sales of investments accounted for using the equity method of accounting; (ii) non-cash stock-based compensation expense varies from period to period due to acquisition activity, changes in the estimated fair value of performance-based awards, forfeiture rates, accelerated vesting and amounts granted; (iii) acquisition and integration costs vary from period to period depending on the level of our acquisition activity; (iv) asset impairment charges can vary from period to period depending on economic and other factors; (v) restructuring and severance charges vary from period to period depending on restructuring activities; (vi) bargain purchase gains can vary from period to period depending on our acquisition activity and the valuation of acquired businesses; (vii) change in fair value of contingent consideration liabilities varies from period to period depending on the performance in post-acquisition periods of certain acquired businesses; and (viii) tax settlements and adjustments to related indemnification assets can vary from period to period depending on the status and resolution of pending matters. Because EBITDA and adjusted EBITDA, as defined, exclude some, but not all, items that affect net income attributable to common stock, and information reconciling the GAAP and non-GAAP financial measures, are included below. The following table shows dollars in thousands.

		Year Ended December 31,		
		2020		2019
Net income attributable to common stock (GAAP as reported)	\$	445,596	\$	402,044
Interest expense		45,013		66,890
Interest income		(2,449)		(927)
Provision for income taxes		119,387		165,472
Amortization of intangible assets		76,704		62,091
Equity in (earnings) losses of unconsolidated affiliates		9,994		(76,801)
Income taxes and depreciation included in equity in earnings of integral unconsolidated affiliates		3,174		_
Depreciation expense		225,256		218,107
EBITDA		922,675		836,876
Non-cash stock-based compensation (a)		91,641		52,013
Acquisition and integration costs		19,809		24,767
Asset impairment charges (b)		8,282		13,892
Severance and restructuring charges (c)		6,808		_
Bargain purchase gain (d)		_		(3,138)
Change in fair value of contingent consideration liabilities		719		13,404
Reduction of indemnification asset (e)				3,991
Adjusted EBITDA	\$	1,049,934	\$	941,805

(a) The amount for the year ended December 31, 2020 includes a \$14.0 million correction of prior period amounts related to the valuation of and accounting for certain performance-based equity awards that were awarded during the years 2017 to 2019. Included in the correction was \$7.2 million of non-cash stock-based compensation related to 2019.

(b) The amount for the year ended December 31, 2020 reflects asset impairment charges related to the exit of the Latin American operations and the planned sale of certain equipment. The amount for the year ended December 31, 2019 reflects asset impairment charges related to the winding down and exit of certain oil-influenced operations and assets, the replacement of an internally developed software application and the planned sale of certain foreign operations and assets.

(c) The amount for the three and twelve months ended December 31, 2020 relates to severance and restructuring charges related to the exit of certain ancillary pipeline operations and our Latin American operations.

(d) The amount for the year ended December 31, 2019 reflects a bargain purchase gain related to the acquisition of an electrical infrastructure solutions business.

(e) The amount for the year ended December 31, 2019 reflects an expense associated with the reduction of an indemnification asset related to the favorable settlement of certain non-U.S. income tax obligations associated with an acquired business.

#### **Remaining Performance Obligations and Backlog**

A performance obligation is a promise in a contract with a customer to transfer a distinct good or service. Our remaining performance obligations represent management's estimate of consolidated revenues that are expected to be realized from the remaining portion of firm orders under fixed price contracts not yet completed or for which work has not yet begun, which includes estimated revenues attributable to consolidated joint ventures and variable interest entities (VIEs), revenues from funded and unfunded portions of government contracts to the extent they are reasonably expected to be realized, and revenues from change orders and claims to the extent management believes they will be earned and are probable of collection.

We have also historically disclosed our backlog, a measure commonly used in our industry but not recognized under GAAP. We believe this measure enables management to more effectively forecast our future capital needs and results and better identify future operating trends that may not otherwise be apparent. We believe this measure is also useful for investors in forecasting our future results and comparing us to our competitors. Our remaining performance obligations are a component of backlog, which also includes estimated orders under MSAs, including estimated renewals, and non-fixed price contracts expected to be completed within one year. Our methodology for determining backlog may not be comparable to the methodologies used by other companies.

As of December 31, 2020 and 2019, MSAs accounted for 63% and 53% of our estimated 12-month backlog and 70% and 61% of total backlog. The increase in MSA backlog resulted from our entry into several new multiyear MSAs with electric and gas utility customers during the three months ended September 30, 2020. Generally, our customers are not contractually committed to specific volumes of services under our MSAs, and most of our contracts can be terminated on short notice even if we are not in default. We determine the estimated backlog for these MSAs using recurring historical trends, factoring in seasonal demand and projected customer needs based upon ongoing communications. In addition, many of our MSAs are subject to renewal, and these potential renewals are considered in determining estimated backlog. As a result, estimates for remaining performance obligations and backlog are subject to change based on, among other things, project accelerations; project cancellations or delays, including but not limited to those caused by commercial issues, regulatory requirements, natural disasters, emergencies (including the ongoing COVID-19 pandemic) and adverse weather conditions; and final acceptance of change orders by customers. These factors can cause revenues to be realized in periods and at levels that are different than originally projected.

The following table reconciles total remaining performance obligations to our backlog (a non-GAAP measure) by reportable segment, along with estimates of amounts expected to be realized within 12 months (in thousands):

		Decembe	er 31,	2020		December 31, 2019				
		12 Month		Total	12 Month			Total		
Electric Power Infrastructure Solutions										
Remaining performance obligations	\$	2,511,157	\$	3,547,838	\$	2,483,109	\$	3,957,710		
Estimated orders under MSAs and short-term, non-fixed price contracts		3,559,443		7,433,445		2,873,446		5,864,527		
Backlog	_	6,070,600	_	10,981,283	_	5,356,555	_	9,822,237		
Underground Utility and Infrastructure Solutions										
Remaining performance obligations		327,205		437,544		670,707		1,344,741		
Estimated orders under MSAs and short-term, non-fixed price contracts		1,868,820		3,713,607		1,919,791		3,837,923		
Backlog		2,196,025	_	4,151,151	_	2,590,498		5,182,664		
Total										
Remaining performance obligations		2,838,362		3,985,382		3,153,816		5,302,451		
Estimated orders under MSAs and short-term, non-fixed price contracts		5,428,263		11,147,052		4,793,237		9,702,450		
Backlog	\$	8,266,625	\$	15,132,434	\$	7,947,053	\$	15,004,901		

The decrease in remaining performance obligations from December 31, 2019 to December 31, 2020 was primarily due to a reduction in larger pipeline projects. Total backlog increased due to the increase in MSA backlog related to expanding base business activities.

#### Liquidity and Capital Resources

#### Cash Requirements

Management monitors financial markets and national and global economic conditions for factors that may affect our liquidity and capital resources. We consider our investment policies related to cash and cash equivalents to be conservative in that we maintain a diverse portfolio of what we believe to be high-quality cash and cash equivalent investments with short-term maturities.

While the extent of the impact of the COVID-19 pandemic on our future operational and financial performance will depend on future developments and remains uncertain, based on our current business forecast for 2021, including revenue and earnings prospects and other cost management actions taken in response to market conditions, we anticipate that our cash and cash equivalents on hand, future cash flows from operations and existing borrowing capacity under our senior credit facility, which we increased and extended the maturity of during the three months ended September 30, 2020, as well as other available financing alternatives, will provide sufficient funds to enable us to meet our interest payment obligations, fund ongoing operating needs, facilitate our ability to repurchase stock and pay any future dividends we declare, fund acquisitions or strategic investments that facilitate the long-term growth and sustainability of our business and fund essential capital expenditures and lease payments during 2021. Our industry is capital intensive, and we expect substantial capital expenditures and commitments under equipment lease and rental arrangements to be needed into the foreseeable future in order to meet anticipated demand for our services. We expect capital expenditures for the year ended December 31, 2021 to be approximately \$325 million. Additionally, refer to *Contractual Obligations* below for a summary of our future contractual obligations and a description of other contingent obligations could require the use of cash in future periods, certain contingent obligations are excluded from the Contractual Obligations table because we are unable to accurately predict the timing and amount of any such obligations as of December 31, 2020 as described below.

Our available commitments under our senior credit facility and cash and cash equivalents at December 31, 2020 were as follows (in thousands):

	Dec	ember 31, 2020
Total capacity available for revolving loans and letters of credit	\$	2,510,000
Less:		
Borrowings of revolving loans under our senior credit facility		148,508
Letters of credit outstanding under our senior credit facility		348,300
Available commitments under senior credit facility for issuing revolving loans or new letters of credit		2,013,192
Plus:		
Cash and cash equivalents		184,620
Total available commitments under senior credit facility and cash and cash equivalents	\$	2,197,812

Our financial strategy and consistent performance has earned us an investment grade credit rating from S&P Global Ratings and Moody's Investors Service. However, our ability to access the capital markets in the future depends on a number of factors, including our financial performance and financial position, our credit rating, industry conditions, general economic conditions, our backlog, capital expenditure commitments, market conditions and market perceptions of us and our industry.

We may seek to access the capital markets from time to time to raise additional capital, increase liquidity as necessary, refinance or extend the term of our existing indebtedness or otherwise fund our capital needs. For example, on September 22, 2020, we issued \$1.00 billion aggregate principal amount of our senior notes, receiving proceeds of \$986.7 million, net of the original issue discount, underwriting discounts and debt issuance costs. We utilized those proceeds, together with cash on hand, to voluntarily prepay \$1.21 billion of outstanding term loans under our senior credit facility, which had a maturity date in October 2022. Additionally, we entered into an amendment to our senior credit facility that, among other things, increased the aggregate revolving commitments from \$2.14 billion to \$2.51 billion and extended the maturity date from October 31, 2022 to September 22, 2025.

# Sources and Uses of Cash

In summary, our cash flows for each period were as follows (in thousands):

	Year Ended December 31,			
	2020	2019		
Net cash provided by operating activities	\$ 1,115,977 \$	526,551		
Net cash used in investing activities	(499,323)	(617,596)		
Net cash provided by (used in) financing activities	(601,365)	177,687		

#### **Operating** Activities

Cash flow from operating activities is primarily influenced by demand for our services and operating margins but is also influenced by working capital needs associated with the various types of services that we provide. Our working capital needs may increase when we commence large volumes of work under circumstances where project costs, primarily labor, equipment and subcontractors, are required to be paid before the associated receivables are billed and collected. Accordingly, changes within working capital in accounts receivable, contract assets and contract liabilities are normally related and are typically affected on a collective basis by changes in revenue due to the timing and volume of work performed and variability in the timing of customer billings and payments. Additionally, working capital needs are generally higher during the summer and fall due to increased demand for our services when favorable weather conditions exist in many of our operating regions. Conversely, working capital assets are typically converted to cash during the winter. These seasonal trends can be offset by changes in project timing due to delays or accelerations and other economic factors that may affect customer spending, including the impact of the COVID-19 pandemic.

Net cash provided by operating activities during 2020 was favorably impacted by lower working capital requirements resulting from a decrease in revenues, as well as increased earnings as compared to 2019. Also favorably impacting cash provided by operating activities during 2020 was the deferral of \$108.9 million of the employer portion of payroll tax payments under the CARES Act, 50% of which are due by December 31, 2021 and the remainder of which are due by December 31, 2022. The CARES Act permitted deferral of the employer portion of payroll taxes through December 31, 2020. Net cash provided by operating activities during the year ended December 31, 2020 also included the receipt of \$82.0 million of insurance proceeds associated with the settlement of two pipeline project claims in the fourth quarter of 2019.

Net cash provided by operating activities during 2019 was lower due to the payment of \$112 million as a result of the exercise of on-demand advance payment and performance bonds in connection with the termination of the large telecommunications project in Peru, which is described in further detail in *Legal Proceedings* in Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*. Net cash used in operating activities for the year ended December 31, 2019 was also impacted by higher working capital requirements, including mobilization and tooling costs, to support business growth and extended billing and collection cycles for certain utility customers.

Days sales outstanding (DSO) represents the average number of days it takes revenues to be converted into cash, which management believes is an important metric for assessing liquidity. A decrease in DSO has a favorable impact on cash flow from operating activities, while an increase in DSO has a negative impact on cash flow from operating activities. DSO is calculated by using the sum of current accounts receivable, net of allowance (which includes retainage and unbilled balances), plus contract assets less contract liabilities, divided by average revenues per day during the quarter. DSO for the quarter ended December 31, 2020 was 83 days, which compares to our historical average over the last five years of 80 days and our DSO for the quarter ended December 31, 2019. which was 81 days.

#### Investing Activities

Net cash used in investing activities during 2020 included \$292.6 million used for acquisitions, \$260.1 million of capital expenditures and \$14.9 million of cash paid for investments in unconsolidated affiliates and other entities, partially offset by \$35.4 million of proceeds from the sale of property and equipment, \$18.8 million of proceeds from the disposition of businesses and \$14.0 million of cash received from investments in unconsolidated affiliates.

Net cash used in investing activities during 2019 included \$388.0 million used for acquisitions, \$261.8 million of capital expenditures and \$47.1 million of cash paid for investments in unconsolidated affiliates and other entities, which were partially offset by \$46.6 million of cash received from investments in unconsolidated affiliates and other entities related to the sale of our equity interest in the limited partnership that built, owned and operated the large electric transmission project in Canada and \$31.1 million of proceeds from the sale of property and equipment.



Our industry is capital intensive, and we expect substantial capital expenditures and commitments under equipment lease and rental arrangements to be needed into the foreseeable future. We also have various other capital commitments that are detailed in *Contractual Obligations* below. In addition, we expect to continue to pursue strategic acquisitions and investments, although we cannot predict the timing or amount of the cash needed for these initiatives.

#### Financing Activities

On September 22, 2020, we received proceeds from the issuance of the senior notes of \$990.1 million, which is net of the original issue discount and underwriting discounts, as described further in *Debt Instruments – 2.900% Senior Notes due October 2030*. These proceeds, together with cash on hand, were used to voluntarily prepay the then-outstanding term loans under the credit agreement, which is reflected in the \$1.20 billion of net repayments under our senior credit facility. Net cash used in financing activities in 2020 also included \$247.2 million of cash payments for common stock repurchases, \$61.5 million of payments to settle certain contingent consideration liabilities, \$28.9 million of cash dividends and dividend equivalents, \$25.4 million of cash payments to satisfy tax withholding obligations associated with stock-based compensation, and \$11.1 million of debt issuance and amendment costs related to the senior notes issuance and the September 2020 amendment to our credit agreement.

Net cash provided by financing activities in 2019 included \$272.5 million of net borrowings under our senior credit facility, partially offset by \$28.3 million of net shortterm repayments, \$23.2 million of cash payments for dividends and cash dividend equivalents, \$20.1 million of cash payments for common stock repurchases and \$16.1 million of payments to satisfy tax withholding obligations associated with stock-based compensation.

#### Stock Repurchases

We repurchased the following shares of common stock in the open market under our stock repurchase programs (in thousands):

Year ended:	Shares	Amount
December 31, 2020	6,680 \$	249,949
December 31, 2019	376 \$	11,954
December 31, 2018	13,917 \$	451,290

Our policy is to record a stock repurchase as of the trade date; however, the payment of cash related to a repurchase is made on the settlement date of the trade. During the years ended December 31, 2020, 2019 and 2018, cash payments related to stock repurchases were \$247.2 million, \$20.1 million and \$443.2 million.

As of December 31, 2020, \$36.8 million remained authorized under our stock repurchase program approved during the third quarter of 2018, which permits us to repurchase outstanding common stock from time to time through June 30, 2021. In August 2020, our Board of Directors authorized us to repurchase, from time to time through June 30, 2023, up to an additional \$500.0 million in shares of our outstanding common stock under a new stock repurchase program, for an aggregate of \$536.8 million remaining under the stock repurchase programs as of December 31, 2020. We are not obligated to acquire any specific amount of common stock and the repurchase programs may be modified or terminated by our Board of Directors at any time at its sole discretion and without notice.

For additional detail regarding the terms of stock repurchase programs, refer to Note 11 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data.

# Dividends

We declared and paid the following cash dividends and cash dividend equivalents during 2020, 2019 and 2018 (in thousands, except per share amounts):

Declaration Date	Record Date	Payment Date	ividend er Share	Dividends Declared
December 11, 2020	January 4, 2021	January 15, 2021	\$ 0.06	\$ 8,933
August 26, 2020	October 1, 2020	October 15, 2020	\$ 0.05	\$ 7,244
May 28, 2020	July 1, 2020	July 15, 2020	\$ 0.05	\$ 7,182
March 26, 2020	April 6, 2020	April 15, 2020	\$ 0.05	\$ 7,184
December 11, 2019	January 2, 2020	January 16, 2020	\$ 0.05	\$ 7,371
August 28, 2019	October 1, 2019	October 15, 2019	\$ 0.04	\$ 5,564
May 24, 2019	July 1, 2019	July 15, 2019	\$ 0.04	\$ 6,233
March 21, 2019	April 5, 2019	April 19, 2019	\$ 0.04	\$ 5,896
December 6, 2018	January 2, 2019	January 16, 2019	\$ 0.04	\$ 5,838

A significant majority of dividends declared were paid on the corresponding payment dates. Holders of restricted stock units (RSUs) awarded under the Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (the 2011 Plan) generally received cash dividend equivalent payments equal to the cash dividend payable on account of the underlying Quanta common stock. Holders of RSUs awarded under the Quanta Services, Inc. 2019 Omnibus Equity Incentive Plan (the 2019 Plan) and holders of unearned and unvested performance stock units (PSUs) awarded under the 2011 Plan and the 2019 Plan receive cash dividend equivalent payments only to the extent such RSUs and PSUs become earned and/or vest. Additionally, cash dividend equivalent payments related to certain stock-based awards that have been deferred pursuant to the terms of a deferred compensation plan maintained by us are recorded as liabilities in such plans until the deferred awards are settled.

The declaration, payment and amount of future cash dividends will be at the discretion of our Board of Directors after taking into account various factors, including our financial condition, results of operations and cash flows from operations; current and anticipated capital requirements and expansion plans; the current and potential impact of the COVID-19 pandemic and other market, industry, economic and political conditions; income tax laws then in effect; and the requirements of Delaware law. In addition, as discussed below, our credit agreement restricts the payment of cash dividends unless certain conditions are met.

#### **Debt Instruments**

#### 2.900% Senior Notes due October 2030

On September 22, 2020, we issued \$1.00 billion aggregate principal amount of the senior notes and received proceeds of \$986.7 million from the offering, net of the original issue discount, underwriting discounts and debt issuance costs. We used the net proceeds, together with cash on hand, to voluntarily prepay the \$1.21 billion of term loans then-outstanding under the credit agreement.

Interest on the senior notes, in the amount of \$14.5 million, is payable semi-annually in arrears on April 1 and October 1 of each year, commencing April 1, 2021. The maturity date for the senior notes is October 1, 2030. We may redeem all or a portion of the senior notes at any time prior to July 1, 2030 at a price equal to 100% of the principal amount plus a make-whole premium and accrued and unpaid interest, and at any time on or after July 1, 2030 at a price equal to 100% of the principal amount plus a crued and unpaid interest, in each case as further specified by terms of the senior notes and the indenture and supplemental indenture governing the senior notes (together, the indenture). Additionally, upon the occurrence of a Change of Control Triggering Event (as defined in the indenture), unless we have exercised our right to redeem the senior notes in full by giving irrevocable notice to the trustee, each noteholder will have the right to require us to purchase all or a portion of such holder's senior notes at a purchase price equal to 101% of the principal amount thereof plus any accrued and unpaid interest.

The indenture also contains customary events of default and covenants that, among other things, limit our ability to incur liens securing indebtedness, to engage in certain sale and leaseback transactions with respect to certain properties and to sell all or substantially all of our assets or merge or consolidate with or into other companies.

## Senior Credit Facility

On September 22, 2020, we entered into an amendment to the credit agreement for our senior credit facility that, among other things, increased the aggregate revolving commitments from \$2.14 billion to \$2.51 billion and extended the maturity date for the revolving commitments from October 31, 2022 to September 22, 2025. Pursuant to the amendment, the pledge of capital stock of certain of our subsidiaries and the liens on the collateral that secured the obligations under the credit agreement were released and all of our subsidiaries that were guarantors of the obligations under the credit agreement were released from their guarantees of such obligations. In addition, the amendment removed the collateral reinstatement provision that would have applied in the event our corporate credit rating were to fall below an investment grade rating. As referenced above, we also used the net proceeds from the offering of our senior notes, together with cash on hand, to voluntarily prepay all the term loans then-outstanding under the credit agreement in the aggregate principal amount of \$1.21 billion.

Additionally, subject to the conditions specified in the credit agreement, we have the option to increase the capacity of the credit facility, in the form of an increase in the revolving commitments, term loans or a combination thereof, from time to time, upon receipt of additional commitments from new or existing lenders by up to an additional (i) \$400.0 million plus (ii) additional amounts so long as the Incremental Leverage Ratio Requirement (as defined in the credit agreement) is satisfied at the time of such increase. The Incremental Leverage Ratio Requirement requires, among other things, after giving pro forma effect to such increase and the use of proceeds therefrom, compliance with the credit agreement's financial covenants as of the most recent fiscal quarter end for which financial statements were required to be delivered.

Borrowings under the credit agreement are to be used to refinance existing indebtedness and for working capital, capital expenditures, acquisitions, stock repurchases and other general corporate purposes. The maturity date for the senior credit facility is September 22, 2025. During the years ended December 31, 2020 and 2019, our weighted average interest rates associated with our senior credit facility were 2.1% and 3.8%.

As of December 31, 2020, we had \$148.5 million of outstanding revolving loans under the credit agreement and \$348.3 million of letters of credit issued under our senior credit facility. As of December 31, 2020, we also had \$18.2 million of letters of credit issued by a financial institution that ceased to be a lender under the senior credit facility subsequent to the September 2020 amendment to the credit agreement, which are collateralized by a \$19.1 million letter of credit issued by a lender under our senior credit facility. As of December 31, 2020, subject to the applicable sublimits, the remaining \$2.01 billion of available commitments under the senior credit facility was available for additional revolving loans or letters of credit in U.S. dollars and certain alternative currencies.

As of December 31, 2020, we were in compliance with all of the financial covenants under the credit agreement, which are further described in Note 8 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data.

The credit agreement provides for customary events of default and generally contains cross-default provisions with other debt instruments exceeding \$150.0 million in borrowings or availability. The credit agreement also limits certain acquisitions, mergers and consolidations, indebtedness, asset sales and prepayments of indebtedness and, subject to certain exceptions, prohibits liens on our assets. The credit agreement allows cash payments for dividends and stock repurchases subject to compliance with the following requirements (including after giving effect to the dividend or stock repurchase): (i) no default or event of default under the credit agreement; (ii) continued compliance with the financial covenants in the credit agreement; and (iii) at least \$100.0 million of availability under the senior credit facility and/or cash and cash equivalents on hand.

To address the transition in financial markets away from the London Interest Bank Offered Rate (LIBOR) by the end of 2021, our senior credit facility agreement includes provisions related to the replacement of LIBOR with a LIBOR Successor Rate (as defined in the credit agreement for such facility), which may be a rate based on the secured overnight financing rate published by the Federal Reserve Bank of New York. If no LIBOR Successor Rate has been determined at the time certain circumstances are present, the lenders' obligation to make or maintain loans based on a Eurocurrency rate could be suspended, and loans in U.S. dollars would default to the Base Rate (as described in Senior Credit Facility within Note 8 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data*) rather than a rate using the Eurocurrency Rate. Changing to an alternative interest rate or to the Base Rate may lead to additional volatility in interest rates and could cause our debt service obligations to increase significantly.

#### **Contractual Obligations and Contingencies**

The following table summarizes our future contractual obligations as of December 31, 2020, excluding certain amounts discussed below (in thousands):

	Total	2021	2022	2023	2024	2025	Т	hereafter
Long-term debt - principal <sup>(1)</sup>	\$ 1,195,489	\$ 9,685	\$ 8,314	\$ 8,318	\$ 8,317	\$ 156,825	\$	1,004,030
Long-term debt - cash interest <sup>(2)</sup>	295,756	30,778	30,436	30,116	29,796	29,475		145,155
Short-term debt <sup>(3)</sup>	4,233	4,233	_	_	_	_		
Operating lease obligations <sup>(4)</sup>	288,680	94,166	68,284	47,872	29,362	18,685		30,311
Operating lease obligations that have not yet commenced <sup>(5)</sup>	3,842	679	620	612	455	470		1,006
Finance lease obligations <sup>(6)</sup>	2,367	920	690	493	264	_		
Short-term lease obligations (7)	13,577	13,577	_	_		_		
Deferral of tax payments (8)	108,870	54,435	54,435	_	—	_		_
Equipment purchase commitments (9)	69,689	69,689	_	_	_	_		
Total contractual obligations	\$ 1,982,503	\$ 278,162	\$ 162,779	\$ 87,411	\$ 68,194	\$ 205,455	\$	1,180,502

(1) Amount represents the principal amount of our long-term debt. The cash interest obligations related to the fixed-rate portion of our long-term debt are included in Long-term debt - cash interest; however, our \$148.5 million of outstanding revolving loans under our senior credit facility bear interest at variable market rates. Assuming the principal amount outstanding and interest rate in effect at December 31, 2020 remained the same, the annual cash interest expense would be approximately \$3.1 million, payable until September 22, 2025, the maturity date of the facility.

(2) Amount represents cash interest expense associated with our fixed-rate, long-term debt, which primarily includes our senior notes and financing transactions arising from the exercise of our equipment rental purchase options.

(3) Amount represents short-term borrowings recorded on our December 31, 2020 consolidated balance sheet.

(4) Amounts represent undiscounted operating lease obligations at December 31, 2020 for our real estate and equipment leases. The operating lease obligations recorded on our December 31, 2020 consolidated balance sheet represent the present value of these amounts.

(5) Amounts represent undiscounted operating lease obligations that had not commenced as of December 31, 2020. The operating lease obligations will be recorded on our consolidated balance sheet beginning on the commencement date of each lease.

(6) Amounts represent undiscounted finance lease obligations at December 31, 2020. The finance lease obligations recorded on our December 31, 2020 consolidated balance sheet represent the present value of these amounts.

(7) Amounts represent short-term lease obligations that are not recorded on our December 31, 2020 consolidated balance sheet due to our accounting policy election. Month-tomonth rental expense associated primarily with certain equipment rentals is excluded from these amounts because we are unable to accurately predict future rental amounts.

(8) Amounts represent deferral of \$108.9 million of the employer portion of payroll tax payments, 50% of which are due by December 31, 2021 and the remainder of which are due by December 31, 2022. The CARES Act permitted deferral of the employer portion of payroll taxes through December 31, 2020.

(9) Amount represents capital committed for the expansion of our vehicle fleet. Although we have committed to the purchase of these vehicles at the time of their delivery, we expect that these orders will be assigned to third-party leasing companies and made available to us under certain of our master equipment lease agreements.



We have various contingencies and commitments that may require the use of cash in future periods, including those set forth below. The Contractual Obligations table excludes the contingencies described below, as we are unable to accurately predict the timing and amount of any of the following contingent obligations.

Uncollectible accounts receivable - We grant credit under normal payment terms, generally without collateral, to our customers. While we generally have certain statutory lien rights with respect to services provided, we are subject to potential credit risk related to business, economic and financial market conditions that affect these customers and locations, which has been heightened as a result of the unfavorable and uncertain economic and financial market conditions resulting from the ongoing COVID-19 pandemic and the significant decline in commodity prices and volatility in commodity production volumes. Some of our customers have experienced significant financial difficulties (including bankruptcy), and customers may experience financial difficulties in the future. These difficulties expose us to increased risk related to collectability of billed and unbilled receivables and contract assets for services we have performed. See *Concentration of Credit Risk* in Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for further discussion related to these potential contingencies.

Lawsuits and other legal proceedings - We are from time to time party to various lawsuits, claims and other legal proceedings that arise in the ordinary course of business, which typically seek, among other things, compensation for alleged personal injury, breach of contract, negligence or gross negligence and/or property damage, environmental liabilities, wage and hour and other employment-related damages, punitive damages, consequential damages, civil penalties or other losses, or injunctive or declaratory relief. With respect to all such lawsuits, claims and proceedings, we record a reserve when it is probable that a liability has been incurred and the amount of loss can be reasonably estimated. In addition, we disclose matters for which management believes a material loss is at least reasonably possible. For additional information regarding litigation, claims and other legal proceedings see *Legal Proceedings* in Note 14 of the Notes to Consolidated Financial Statements in Item 8.*Financial Statements and Supplementary Data*. In all instances, management has assessed the matter based on current information and made a judgment concerning its potential outcome, giving due consideration to the nature of the nature of damages sought and the probability of success. Management's judgment may prove materially inaccurate, and such judgment is made subject to the known uncertainties of litigation.

*Collective bargaining agreements and multiemployer pension plan liabilities*- Certain of our operating units are parties to collective bargaining agreements with unions that represent certain of their employees, and from time to time, we are a party to grievance and arbitration actions based on claims arising out of the collective bargaining agreements, which specify that we pay certain wages, provide certain benefits to union employees and contribute certain amounts to multiemployer pension plans and employee benefit trusts. The location and number of union employees that we employ at any given time and the plans in which they may participate vary depending on our need for union resources in connection with our ongoing projects, and therefore we are unable to accurately predict our union employee payroll and the resulting contribution obligations for future periods. Furthermore, we may be required to make additional contributions to our multiemployer pension plans if they become underfunded or if we withdraw or are deemed to have withdrawn from a plan or a plan is terminated or experiences a mass withdrawal. For additional information on these obligations and potential contingencies, and *Supplementary Data*.

**Bonds and parent guarantees** - Many customers, particularly in connection with new construction, require us to post performance and payment bonds, which provide a guarantee that we will perform under the terms of a contract and pay subcontractors and vendors. In certain circumstances, the customer may demand that our surety make payments or provide services under the bond, and we must reimburse the surety for any expenses or outlays it incurs. Additionally, from time to time, we guarantee certain obligations and liabilities of our subsidiaries that may arise in connection with, among other things, contracts with customers, equipment lease obligations, joint venture arrangements and contractor licenses, and may cover all of the subsidiary's unperformed, undischarged and unreleased obligations and liabilities under or in connection with the relevant agreement. See *Bonds and Parent Guarantees* in Note 14 of the Notes to Consolidated Financial Statements in Item 8.*Financial Statements and Supplementary Data* for further discussion related to these obligations and potential contingencies;

Insurance liabilities - Due to the nature of our operations, at any given time we have a significant amount of accrued insurance claims. Additionally, we renew our insurance policies on an annual basis, and therefore deductibles and levels of insurance coverage may change in future periods. In addition, insurers may cancel our coverage or determine to exclude certain items from coverage, or we may elect not to obtain certain types or incremental levels of insurance based on the potential benefits considered relative to the cost of such insurance, or coverage may not be available at reasonable and competitive rates. See *Insurance* in Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for further discussion related to these obligations and potential contingencies.

Indemnities and assumed liabilities - In connection with our acquisition transactions, we assume certain liabilities and obtain rights to indemnification from the sellers or former owners of acquired businesses for certain risks, liabilities and

obligations arising from their prior operations, such as performance, operational, safety, workforce or tax issues. However, we may not have discovered certain liabilities during due diligence and our indemnities may not cover all of our exposure for such pre-acquisition matters or the indemnitors may be unwilling or unable to pay amounts owed to us. Accordingly, we may incur expenses that are not reimbursed, and such amounts could be material. See *Indemnities* in Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for further discussion related to these potential contingencies.

Contingent consideration liabilities prior to their resolution - We have incurred liabilities related to contingent consideration associated with certain acquisitions, payable in the event certain performance objectives are achieved by the acquired businesses during designated post-acquisition periods. The aggregate amount of these liabilities can change due to additional business acquisitions, settlement of outstanding liabilities, changes in the fair value of amounts owed based on performance in post-acquisition periods and accretion in present value. See *Fair Value Measurements - Contingent Consideration Liabilities* in Note 2 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for further discussion related to these potential contingencies.

Liabilities related to our deferred compensation plans - We maintain non-qualified deferred compensation plans pursuant to which non-employee directors and certain key employees may defer receipt of some or all of their compensation. These plans are unfunded and unsecured compensation arrangements, and the amount of the obligations can fluctuate based on the market value of participants' investment elections under the plan. See *Deferred Compensation Plans* in Note 13 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for further discussion related to these plans.

Undistributed earnings of foreign subsidiaries - We generally do not provide for taxes related to undistributed earnings of our foreign subsidiaries and we could be subject to additional foreign withholding taxes if we were to repatriate cash that is indefinitely reinvested outside the United States. See Note 10 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for further discussion related to these potential contingencies;

Unrecognized tax benefits - We remain under examination by various U.S. state, Canadian and other foreign tax authorities for multiple periods and believe it is reasonably possible that within the next 12 months unrecognized tax benefits may decrease by up to \$11.9 million as a result of settlement of these examinations or the expiration of certain statute of limitations periods. See Note 10 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for further discussion related to these potential contingencies.

*Commitment fees under our senior credit facility* - Fees associated with letters of credit under our senior credit facility and other letters of credit and commitment fees under our senior credit facility are variable because they depend on the amount of outstanding letters of credit, availability and applicable fees. Assuming that the amount of letters of credit outstanding and the fees as of December 31, 2020 remained the same, the annual cash expense for our letters of credit would be approximately \$4.7 million. See Note 8 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for further discussion related to these obligations and potential contingencies.

#### **Off-Balance Sheet Transactions**

As is common in our industry, we have entered into certain off-balance sheet arrangements in the ordinary course of business that result in risks not directly reflected in our balance sheets. Our significant off-balance sheet transactions include certain obligations relating to our investments and joint venture arrangements; short-term, non-cancelable leases and leases that have not yet commenced; letters of credit obligations; surety guarantees related to bonds; committed expenditures for the purchase of equipment; and certain multiemployer pension plan liabilities. See *Contractual Obligations* above and Note 14 of the Notes to Consolidated Financial Statements in Item 8. *Financial Statements and Supplementary Data* for a description of these arrangements.

#### **Critical Accounting Estimates**

The discussion and analysis of our financial condition and results of operations are based on our consolidated financial statements, which have been prepared in accordance with GAAP. The preparation of these consolidated financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosures of contingent assets and liabilities known to exist as of the date the consolidated financial statements are published and the reported amounts of revenues and expenses recognized during the periods presented. We review all significant estimates affecting our consolidated financial statements on a recurring basis and record the effect of any necessary adjustments prior to their publication. Judgments and estimates are based on our beliefs and assumptions derived from information available at the time such judgments and estimates are made. Uncertainties with respect to such estimates and assumptions are inherent in the preparation of financial statements. There can be no assurance that actual results will not differ from those estimates. Management has reviewed its development and selection of critical accounting estimates with the audit committee of our Board

of Directors. Our accounting policies are primarily described in Note 2 of the Notes to Consolidated Financial Statements in Item 8*Financial Statements and Supplementary Data* and should be read in conjunction with the accounting policies identified below that we believe affect our more significant judgments and estimates used in the preparation of our consolidated financial statements.

**Revenue Recognition** - The estimation of contract revenues and costs, including changes in estimates; progress on construction projects; variable consideration; and collectability of accounts receivable, long-term accounts receivable, unbilled receivables, retainage and contract assets, including amounts related to unapproved change orders in the process of being negotiated.

Property and Equipment- The valuation methods and assumptions used in assessing impairment, useful life determination and the related timing of depreciation and the determination of asset groupings.

*Goodwill* - The valuation methods and assumptions used in assessing impairment, including determination of whether to perform a qualitative assessment on some or all of the reporting units, weighting of various methods of determining the fair value of each reporting unit, number of years of cash flows utilized before applying a terminal value, the weighted average cost of capital, transaction multiples, guideline public company multiples and five-year compounded annual growth rates.

Other Intangible Assets - The valuation methods and assumptions used in assessing impairment.

Income Taxes - The identification and measurement of deferred tax assets and liabilities; the measurement of valuation allowances on deferred tax assets including estimates of future taxable income; estimates associated with tax liabilities in that tax laws and regulations are voluminous and often ambiguous; and benefits from uncertain tax positions (also refer to Note 10 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data).

Insurance - The estimation of liabilities and related recoveries.

Litigation Costs and Reserves and Loss Contingencies - The estimation of when a loss is probable or reasonably possible and whether any such loss is reasonably estimable or any range of possible loss is estimable, as well as uncertainties related to the outcome of litigation or other legal proceedings (also refer to Note 14 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data).

Acquisitions - The assumptions used to determine the fair value of consideration transferred and to allocate this consideration to assets acquired and liabilities assumed in connection with our acquisitions, including the estimated useful lives of other intangible assets subject to amortization (also refer to Note 4 of the Notes to Consolidated Financial Statements in Item 8. Financial Statements and Supplementary Data).

# ITEM 7A. Quantitative and Qualitative Disclosures about Market Risk

Our primary exposure to market risk relates to unfavorable changes in concentration of credit risk, interest rates and currency exchange rates.

*Credit Risk.* We are subject to concentrations of credit risk related to our cash and cash equivalents and net receivable position with customers, which includes amounts related to billed and unbilled accounts receivable and contract assets net of advanced billings with the same customer. Substantially all of our cash and cash equivalents are managed by what we believe to be high credit quality financial institutions. In accordance with our investment policies, these institutions are authorized to invest cash and cash equivalents in a diversified portfolio of what we believe to be high-quality investments, which primarily include interest-bearing demand deposits, money market investments and money market mutual funds. Although we do not currently believe the principal amounts of these cash and cash equivalents are subject to any material risk of loss, changes in economic conditions could impact the interest income we receive from these investments.

In addition, we grant credit under normal payment terms, generally without collateral, and therefore are subject to potential credit risk related to our customers' inability to pay for services provided. Furthermore, the risk of nonpayment may be heightened as a result of depressed economic and financial market conditions, including in connection with the ongoing COVID-19 pandemic and the significant decline in commodity prices and volatility in commodity production volumes. We believe the concentration of credit risk related to billed and unbilled receivables and contract assets is limited because of the diversity of our customers, and we perform ongoing credit risk assessments of our customers and financial institutions and in some cases obtain collateral or other security from our customers. For example a customer within our Underground Utility and Infrastructure Solutions segment encountered financial difficulties during 2020 that resulted in nonpayment of credit receivables owed, and as a result of which we decided to foreclose our liens on the pipeline asset in order to recover the outstanding amounts. See *Concentrations of Credit Risk* in Note 14 of the Notes to Consolidated Financial Statements and Supplementary Data for additional information.

Interest Rate Risk. As of December 31, 2020, we had no derivative financial instruments to manage interest rate risk. As such, we were exposed to earnings and fair value risk due to changes in interest rates with respect to our variable rate debt, which is comprised of borrowings under the credit agreement for our senior credit facility. As of December 31, 2020, the fair value of our variable rate debt of \$148.5 million approximated book value, and our weighted average interest rate on our variable rate debt for the year ended December 31, 2020 was 2.1%. The annual effect on our pretax earnings of a hypothetical 50 basis point increase or decrease in variable interest rates would be approximately \$0.7 million based on our December 31, 2020 balance of variable rate debt.

*Foreign Currency Risk.* The U.S. dollar is the functional currency for the majority of our operations, which are primarily located within the United States. The functional currency for our foreign operations, which are primarily located in Canada and Australia, is typically the currency of the country in which the foreign operating unit is located. Accordingly, our financial performance is subject to fluctuation due to changes in foreign currency exchange rates relative to the U.S. dollar. During 2020, revenues from our foreign operations accounted for 14.1% of our consolidated revenues. Fluctuations in foreign exchange rates during the year ended December 31, 2020 caused a decrease of approximately \$17 million in foreign revenues compared to the year ended December 31, 2019. Fluctuations in foreign 31, 2018.

We are also subject to foreign currency risk with respect to sales, purchases and borrowings that are denominated in a currency other than the respective functional currencies of our operating units. To minimize the risk from changes in foreign currency exchange rates, we may enter into foreign currency derivative contracts to hedge our foreign currency risk on a cash flow basis. There were no outstanding foreign currency derivative contracts at December 31, 2020.

We also have foreign exchange risk related to cash and cash equivalents in foreign banks. Based on the balance of cash and cash equivalents in foreign banks of \$28.5 million as of December 31, 2020, an assumed 5% adverse change to foreign exchange rates would result in a fair value decline of \$0.9 million.

# ITEM 8. Financial Statements and Supplementary Data

# INDEX TO QUANTA SERVICES, INC.'S CONSOLIDATED FINANCIAL STATEMENTS

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# **REPORT OF MANAGEMENT**

#### **Management's Report on Financial Information and Procedures**

The accompanying financial statements of Quanta Services, Inc. and its subsidiaries were prepared by management. These financial statements were prepared in accordance with accounting principles generally accepted in the United States, applying certain estimates and judgments as required.

Our management, including our Chief Executive Officer and Chief Financial Officer, does not expect that our disclosure controls or our internal control over financial reporting will prevent or detect all errors and all fraud. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control system's objectives will be met. The design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Further, because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud, if any, within the company have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty and that breakdowns can occur because of simple errors or mistakes. Controls can also be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls is based in part on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures.

# Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting as defined in Rule 13a-15(f) under the Securities Exchange Act of 1934. Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of our consolidated financial statements for external purposes in accordance with U.S. generally accepted accounting principles. Internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that in reasonable detail accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with U.S. generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the company's assets that could have a material effect on the financial statements.

Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we have conducted an evaluation of the effectiveness of our internal control over financial reporting based upon the criteria established in *Internal Control — Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this evaluation, our management has concluded that our internal control over financial reporting was effective as of December 31, 2020 to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external reporting purposes in accordance with U.S. generally accepted accounting principles.

Because of its inherent limitations, a system of internal control over financial reporting can provide only reasonable assurances and may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with policies and procedures may deteriorate.

The effectiveness of Quanta Services, Inc.'s internal control over financial reporting as of December 31, 2020 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in its report which appears herein.

Management's assessment of the effectiveness of our internal control over financial reporting as of December 31, 2020 excluded the seven businesses we acquired in 2020. Such exclusion was in accordance with SEC guidance that an assessment of recently acquired businesses may be omitted in management's report on internal control over financial reporting, provided the acquisition took place within twelve months of management's evaluation. These acquisitions comprised approximately 2.9% and 1.2% of our consolidated assets and revenues as of and for the year ended December 31, 2020.

#### **Report of Independent Registered Public Accounting Firm**

To the Board of Directors and Stockholders of Quanta Services, Inc.

# **Opinions on the Financial Statements and Internal Control over Financial Reporting**

We have audited the accompanying consolidated balance sheets of Quanta Services, Inc. and its subsidiaries (the "Company") as of December 31, 2020, and 2019 and the related consolidated statements of operations, of comprehensive income, of equity and of cash flows for each of the three years in the period ended December 31, 2020, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2020, based on criteria established in Internal Control - Integrated Framework (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2020 and 2019, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2020 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2020, based on criteria established in Internal Control - Integrated Framework (2013) issued by the COSO.

#### Change in Accounting Principle

As discussed in Note 3 to the consolidated financial statements, the Company changed the manner in which it accounts for leases in 2019.

#### **Basis for Opinions**

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control Over Financial Reporting. Our responsibility is to express opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

As described in Management's Report on Internal Control Over Financial Reporting, management has excluded seven acquired businesses from its assessment of internal control over financial reporting as of December 31, 2020 because they were acquired by the Company in purchase business combinations during 2020. We have also excluded these seven acquired businesses from our audit of internal control over financial reporting. These acquired businesses, each of which is wholly-owned, comprised, in the aggregate, total assets and total revenues excluded from management's assessment and our audit of internal control over financial reporting of approximately 2.9% and 1.2% of consolidated total assets and consolidated total revenues, respectively, as of and for the year ended December 31, 2020.

#### Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

## **Critical Audit Matters**

The critical audit matters communicated below are matters arising from the current period audit of the consolidated financial statements that were communicated or required to be communicated to the audit committee and that (i) relate to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matters below, providing separate opinions on the critical audit matters or on the accounts or disclosures to which they relate.

#### Revenue Recognition - Determination of Total Estimated Contract Costs for Contracts Recognized Over Time

As described in Note 2 to the consolidated financial statements, the Company generally recognizes revenue over time as it performs its obligations because there is a continuous transfer of control of the deliverable to the customer. Under unit-price contracts with more than an insignificant amount of partially completed units and fixed price contracts, revenue is recognized as performance obligation. During the year ended December 31, 2020, approximately 47.9% of the Company's revenues recognized were associated with this revenue recognition method. Contract costs include all direct materials, labor and subcontract costs and indirect costs related to contract performance, such as indirect labor, supplies, tools, repairs and depreciation costs. Actual revenues and project costs can vary, sometimes substantially, from previous estimates due to changes in a variety of factors, including unforeseen or changed circumstances not included in management's cost estimates or covered by its contracts. The estimating process is based on the professional knowledge and experience of management's project estimators, project managers and finance professionals.

The principal considerations for our determination that performing procedures relating to revenue recognition for contracts recognized over time is a critical audit matter are (i) the significant judgment by management when determining the total contract costs and (ii) the high degree of auditor judgment, subjectivity and effort in performing procedures and evaluating audit evidence relating to management's estimate of the total costs of the contracts recognized over time.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the revenue recognition process and the determination of total estimated contract cost for contracts recognized over time. These procedures also included, among others, (i) testing management's process for determining the total estimated contract cost which included evaluating the contracts and other documents that support those estimates, and testing of underlying contract costs; (ii) evaluating management's ability to reasonably estimate total contract costs by performing a comparison of the actual total estimated contract cost as compared with prior period estimates, including evaluating the timely identification of circumstances that may warrant a modification to the total estimated contract cost; and (iii) evaluating management's methodologies and the consistency of management's methodologies over the life of the contract.

#### Goodwill Impairment Assessment - Three Reporting Units within the Underground Utility and Infrastructure Solutions Division

As described in Notes 2 and 5 to the consolidated financial statements, the Company's consolidated goodwill balance was \$2.1 billion as of December 31, 2020, and the amount of the goodwill associated with the three reporting units was \$99.8 million. Goodwill is tested for impairment annually in the fourth quarter of the fiscal year, or more frequently if events or circumstances arise which indicate that goodwill may be impaired. The assessment can be performed by first completing a qualitative

assessment on none, some or all reporting units. If management believes that, as a result of its qualitative assessment, it is more likely than not that the fair value of a reporting unit is less than its carrying amount, the quantitative impairment test is required. The quantitative test involves comparing the fair value of each reporting unit with its carrying amount, including goodwill. In connection with the 2020 annual goodwill assessment, management identified certain reporting units for which a quantitative goodwill impairment assessment was deemed appropriate based on financial performance indicators. After taking into account a 10% decrease in fair value of the reporting units for which a quantitative below their carrying amounts. Management determines the fair value of its reporting units units using the income approach (discounted cash flow method). Inherent assumptions and estimates used in developing future cash flows include projected revenues and margins, and weighted average costs of capital.

The principal considerations for our determination that performing procedures relating to the goodwill impairment assessment of the three reporting units is a critical audit matter are (i) the significant judgment by management when determining the fair value estimates of the reporting units; (ii) the high degree of auditor judgment, subjectivity and effort in performing procedures and evaluating management's significant assumptions related to projected revenues and margins, and weighted average costs of capital; and (iii) the audit effort involved the use of professionals with specialized skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to management's goodwill impairment assessment, including controls over the valuation of three reporting units. These procedures included, among others (i) testing management's process for determining the fair value estimates for three reporting units; (ii) evaluating the appropriateness of the discounted cash flow method; (iii) testing the completeness and accuracy of the underlying data used in the fair value estimates; and (iv) evaluating the reasonableness of the significant assumptions used by management related to projected revenues and margins, and weighted average costs of capital. Evaluating management's assumptions related to projected revenues and margins involved evaluating whether these assumptions were reasonable considering (i) current and past performance of the reporting units; (ii) the consistency with external market and industry data; and (iii) whether these assumptions were consistent with evidence obtained in other areas of the significant assumption related to the weighted average costs of capital.

/s/ PricewaterhouseCoopers LLP

Houston, Texas February 26, 2021

We have served as the Company's auditor since 2002.

Attachment D

# CONSOLIDATED BALANCE SHEETS (In thousands, except share information)

	December 31,					
		2020		2019		
ASSETS						
Current Assets:						
Cash and cash equivalents	\$	184,620	\$	164,798		
Accounts receivable, net of allowances of \$16,546 and \$9,398		2,716,083		2,747,911		
Contract assets		453,832		601,268		
Inventories		50,472		55,719		
Prepaid expenses and other current assets		183,382		261,290		
Total current assets		3,588,389		3,830,986		
Property and equipment, net of accumulated depreciation of \$1,372,132 and \$1,250,197		1,560,656		1,386,654		
Operating lease right-of-use assets		256,845		284,369		
Other assets, net		435,713		393,264		
Other intangible assets, net of accumulated amortization of \$517,574 and \$437,886		435,655		413,734		
Goodwill		2,121,014		2,022,675		
Total assets	\$	8,398,272	\$	8,331,682		
LIABILITIES AND EQUITY	_		-			
Current Liabilities:						
Current maturities of long-term debt and short-term debt	\$	14,764	\$	74,869		
Current portion of operating lease liabilities		85,134		92,475		
Accounts payable and accrued expenses		1,509,794		1,489,559		
Contract liabilities		528,864		606,146		
Total current liabilities		2,138,556	_	2,263,049		
Long-term debt, net of current maturities		1,174,294		1,292,195		
Operating lease liabilities, net of current portion		178,822		196,521		
Deferred income taxes		166,407		214,779		
Insurance and other non-current liabilities		391,221		311,307		
Total liabilities		4,049,300		4,277,851		
Commitments and Contingencies		.,,		.,,,		
Equity:						
Common stock, \$0.00001 par value, 600,000,000 shares authorized, 162,710,792 and 159,415,540 shares issued, and 138,300,191 and 142,324,318 shares outstanding		2		2		
Exchangeable shares, no par value, 0 and 36,183 shares issued and outstanding		_				
Additional paid-in capital		2,170,026		2,024,610		
Retained earnings		3,264,967		2,854,271		
Accumulated other comprehensive loss		(232,997)		(241,818)		
Treasury stock, 24,410,601 and 17,091,222 common shares		(857,817)		(586,773)		
Total stockholders' equity		4,344,181		4,050,292		
Non-controlling interests		4,791		3,539		
Total equity		4,348,972	-	4,053,831		
Total liabilities and equity	\$	8,398,272	\$	8.331.682		

The accompanying notes are an integral part of these consolidated financial statements.

# QUANTA SERVICES, INC. AND SUBSIDIARIES

# CONSOLIDATED STATEMENTS OF OPERATIONS

(In thousands, except per share information)

		Year E	nded December 31,		
	2020		2019		2018
Revenues	\$ 11,202,672	\$	12,112,153	\$	11,171,423
Cost of services (including depreciation)	 9,541,825		10,511,901		9,691,459
Gross profit	1,660,847		1,600,252		1,479,964
Equity in earnings of integral unconsolidated affiliates	11,303		_		_
Selling, general and administrative expenses	(975,074)		(955,991)		(857,574)
Amortization of intangible assets	(76,704)		(62,091)		(43,994)
Asset impairment charges	(8,282)		(13,892)		(49,375)
Change in fair value of contingent consideration liabilities	(719)	_	(13,404)	_	11,248
Operating income	611,371		554,874		540,269
Interest expense	(45,013)		(66,890)		(36,945)
Interest income	2,449		927		1,555
Other income (expense), net	2,539	_	83,376	_	(47,213)
Income before income taxes	571,346		572,287		457,666
Provision for income taxes	119,387		165,472		161,659
Net income	451,959		406,815		296,007
Less: Net income attributable to non-controlling interests	 6,363		4,771		2,661
Net income attributable to common stock	\$ 445,596	\$	402,044	\$	293,346
Earnings per share attributable to common stock:					
Basic	\$ 3.15	\$	2.76	\$	1.92
Diluted	\$ 3.07	\$	2.73	\$	1.90
Shares used in computing earnings per share:					
Weighted average basic shares outstanding	141,380		145,710		152,963
Weighted average diluted shares outstanding	145,247		147,534		154,226

The accompanying notes are an integral part of these consolidated financial statements.

# QUANTA SERVICES, INC. AND SUBSIDIARIES

# CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (In thousands)

	Year Ended December 31,						
	2020		2019		2018		
Net income	\$	451,959	\$	406,815	\$	296,007	
Other comprehensive income (loss), net of taxes:							
Foreign currency translation adjustment, net of tax of \$0, \$0 and \$0		11,439		43,535		(84,484)	
Other, net of tax of \$865, \$(200) and \$(677)		(2,618)		695		1,831	
Other comprehensive income (loss), net of taxes		8,821		44,230		(82,653)	
Comprehensive income		460,780	(* <u> </u>	451,045		213,354	
Less: Comprehensive income attributable to non-controlling interests		6,363		4,771		2,661	
Total comprehensive income attributable to common stock	\$	454,417	\$	446,274	\$	210,693	

The accompanying notes are an integral part of these consolidated financial statements.

# QUANTA SERVICES, INC. AND SUBSIDIARIES

Attachment D

# CONSOLIDATED STATEMENTS OF CASH FLOWS (In thousands)

		Year Ended December 31,			
	 2020	2019		2018	
Cash Flows from Operating Activities:					
Net income	\$ 451,959	\$ 406,81	5 \$	296,007	
Adjustments to reconcile net income to net cash provided by operating activities					
Depreciation	225,256	218,10		202,519	
Amortization of intangible assets	76,704	62,09		43,994	
Asset impairment charges	8,282	13,89	2	49,375	
Impairment of cost method investment	9,311		_		
Change in fair value of contingent consideration liabilities	719	13,40	4	(11,248)	
Equity in (earnings) losses of unconsolidated affiliates	(1,309)	(76,80	l)	52,867	
Amortization of debt discount and issuance costs	5,126	1,87	)	1,270	
(Gain) loss on sale of property and equipment	(3,056)	(5,79)	7)	3,296	
Provision for credit losses	3,656	11,24	9	7,169	
Deferred income tax expense (benefit)	(60,016)	(7,919	))	61,974	
Non-cash stock-based compensation	91,641	52,01	3	52,484	
Foreign currency and other (gain) loss and other non-cash items	(5,159)	(5,568	3)	(385)	
Payments for contingent consideration liabilities	(14,506)		-		
Changes in operating assets and liabilities, net of non-cash transactions	327,369	(156,80)	5)	(400,533)	
Net cash provided by operating activities	 1,115,977	526,55	<u></u>	358,789	
Cash Flows from Investing Activities:	 -,,				
Capital expenditures	(260,052)	(261,762	2)	(293,595)	
Proceeds from sale of property and equipment	35,390	31,14	·	31,780	
Proceeds from insurance settlements related to property and equipment	542	1,96		714	
Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired	(292,573)	(387,96		(94,917)	
Proceeds from disposition of businesses	18,785	(567,56	/	()+,)11)	
Investments in unconsolidated affiliates and other entities	(14,856)	(47,05		(36,909)	
Cash received from investments in unconsolidated affiliates and other entities	13,963	46,59	/	(30,909)	
Cash paid for intangible assets	(522)	40,39		(14,448)	
1 0					
Net cash used in investing activities	 (499,323)	(617,590	<u>)</u>	(402,670)	
Cash Flows from Financing Activities:					
Borrowings under credit facility	2,983,529	6,175,55		4,491,782	
Payments under credit facility	(4,187,645)	(5,903,069	))	(4,076,460)	
Proceeds from notes offering	990,130	-	-	_	
Payments on other long-term debt	(2,970)	(2,20)	· · · · · · · · · · · · · · · · · · ·	(1,298)	
Net borrowings (repayments) of short-term debt	(4,846)	(28,29)		33,790	
Debt issuance and amendment costs	(11,089)	(2,309	))	(1,976)	
Payments for contingent consideration liabilities	(61,483)		-	_	
Distributions to non-controlling interests, net of contributions received	(5,404)	(2,520	5)	(4,038)	
Payments related to tax withholding for share-based compensation	(25,447)	(16,14	4)	(15,218)	
Payments of dividends	(28,891)	(23,23)	5)		
Repurchase of common stock	(247,249)	(20,092	2)	(443,152)	
Net cash provided by (used in) financing activities	(601,365)	177,68	7	(16,570)	
Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash	 1,774	(15)	s)	(68)	
Net increase (decrease) in cash, cash equivalents and restricted cash	17,063	86,48	/	(60,519)	
Cash, cash equivalents and restricted cash, beginning of year	169,745	83,25		143,775	
Cash, cash equivalents and restricted cash, end of year	\$ 186,808	\$ 169,74		83,256	

The accompanying notes are an integral part of these consolidated financial statements.

# QUANTA SERVICES, INC. AND SUBSIDIARIES

# CONSOLIDATED STATEMENTS OF EQUITY (In thousands, except share information)

	Common	Stock	Exchang Shar			ies G ed Stock	Additional Paid-In	Retained	Accumulated Other Comprehensive	Treasury	Total Stockholders'	Non-controlling	Total
	Shares	Amount	Shares	Amount	Shares	Amount	Capital	Earnings	Loss	Stock	Equity	Interests	Equity
Balance at December 31, 2017	153,342,326	\$ 2	486,112	s —	1	\$ —	\$ 1,889,356	\$ 2,191,059	\$ (203,395)	\$ (85,451)	\$ 3,791,571	\$ 4,058	\$ 3,795,629
Revenue recognition cumulative effect adjustment	_	_	_	_	_	_	_	(1,276)	_	_	(1,276)	_	(1,276)
Other comprehensive loss	_	_	_	_	_	_	_	_	(82,653)	_	(82,653)	_	(82,653)
Acquisitions	679,668	_	_	_	_	_	22,882	_	_	_	22,882	_	22,882
Stock-based compensation activity	998,631	_	_	_	_	_	55,116	_	_	(17,699)	37,417	_	37,417
Common stock repurchases	(13,916,725)	_	_	_	_	_	_		_	(451,290)	(451,290)	_	(451,290)
Dividends declared (\$0.04 per share)	_		_	_	_	_	_	(5,838)	_	_	(5,838)	_	(5,838)
Distributions to non-controlling interests	-	_	_	_	_	_	_	_	_		_	(4,038)	(4,038)
Buyout of non-controlling interest	_	_	_	_	_	_	_	_	_	_	_	(1,387)	(1,387)
Net income	_	_	_	_	_	_	_	293,346	_	_	293,346	2,661	296,007
Balance at December 31, 2018	141,103,900	2	486,112		1		1,967,354	2,477,291	(286,048)	(554,440)	3,604,159	1,294	3,605,453
Other comprehensive income	_			_	_	_			44,230	_	44,230		44,230
Acquisitions	60,860			_	_	_	1,791	_	_	_	1,791	_	1,791
Stock-based compensation activity	1,085,165			_	_	_	55,465			(20,379)	35,086		35,086
Exchange of exchangeable shares	449,929	_	(449,929)	_	_	_	_	_	_	_	_	_	_
Retirement of preferred stock	_		_	_	(1)	_							
Common stock repurchases	(375,536)	_		_	_	_	_	_	_	(11,954)	(11,954)	_	(11,954)
Dividends declared (\$0.17 per share)	_			_	_	_	_	(25,064)	_	_	(25,064)		(25,064)
Distributions to non-controlling interests	_	_		_	_	_	_	_	_	_	_	(2,526)	(2,526)
Net income	_	_	_	_	_	_	_	402,044	_		402,044	4,771	406,815
Balance at December 31, 2019	142,324,318	2	36,183				2,024,610	2,854,271	(241,818)	(586,773)	4,050,292	3,539	4,053,831
Credit loss cumulative effect adjustment		_		_	_	_		(3,841)		_	(3,841)	_	(3,841)
Other comprehensive income	_			_	_	_		_	8,821		8,821	_	8,821
Acquisitions	1,338,746			_	_	_	57,289	_		_	57,289	_	57,289
Stock-based compensation activity	1,280,489			_	_	_	88,127	_	_	(21,095)	67,032	_	67,032
Exchange of exchangeable shares	36,183	_	(36,183)	_	_	_		_	_		_	_	
Common stock repurchases	(6,679,545)	_		_	_	_	_	_	_	(249,949)	(249,949)	_	(249,949)
Dividends declared (\$0.21 per share)	_	_		_	_	_	_	(30,543)	_	_	(30,543)		(30,543)
Distributions to non-controlling interests	_	_		_	_	_		_	_	_	_	(5,404)	(5,404)
Other	_	_		_	_	_	_	(516)		_	(516)	293	(223)
Net income	_	_	_	_	_	_	_	445,596	_	_	445,596	6,363	451,959
Balance at December 31, 2020	138,300,191	\$ 2		\$		\$ _	\$ 2,170,026	\$ 3,264,967	\$ (232,997)	\$ (857,817)	\$ 4,344,181	\$ 4,791	\$ 4,348,972

The accompanying notes are an integral part of these consolidated financial statements.

# QUANTA SERVICES, INC. AND SUBSIDIARIES

#### NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

# 1. BUSINESS AND ORGANIZATION:

Quanta Services, Inc., (together with its subsidiaries, Quanta), is a leading provider of specialty contracting services, delivering comprehensive infrastructure solutions for the electric and gas utility, communications, pipeline and energy industries in the United States, Canada, Australia and select other international markets. Quanta reports its results under two reportable segments: (1) Electric Power Infrastructure Solutions and (2) Underground Utility and Infrastructure Solutions.

#### **Electric Power Infrastructure Solutions Segment**

The Electric Power Infrastructure Solutions segment provides comprehensive network solutions to customers in the electric power and other industries. Services performed by the Electric Power Infrastructure Solutions segment generally include the design, new construction, upgrade and repair and maintenance of electric power transmission and distribution infrastructure and substation facilities along with other engineering and technical services. This includes solutions for utilities to implement system upgrades to modernize and harden the electric power grid in order to ensure its safety and enhance reliability. This segment also provides emergency restoration services, including the repair of infrastructure damaged by fire and inclement weather; the energized installation, maintenance and upgrade of electric power networks. In addition, this segment provides the engineering and construction services for the switchyards and transmission infrastructure needed to interconnect renewable energy generation, including solar, wind, hydro power and backup natural gas generation facilities. Engineering and construction solutions of writeles and other things, micro-grids and battery storage are also performed in this segment. This segment also provides somerhensive design and construction solutions to wireline and wireless communications industry (including services in connection with 5G wireless deployment); and the design, installation, maintenance and repair of commercial and industrial wiring. This segment also provides aviation services in support of the above services and includes the majority of the financial results of Quanta's postsecondary educational institution, which specializes in pre-apprenticeship training, apprenticeship training and specialized utility task training for electric workers, as well as training for the gas distribution and communications industries.

#### Underground Utility and Infrastructure Solutions Segment

The Underground Utility and Infrastructure Solutions segment provides comprehensive infrastructure solutions, including design, engineering, new construction, upgrade and repair and maintenance services, to customers involved in the transportation, distribution, storage and processing of natural gas, oil and other products. Services include the upgrade, new construction and repair and maintenance of natural gas systems for gas utility customers, as well as pipeline protection, integrity testing, rehabilitation and replacement. Quanta also provides catalyst replacement services, high-pressure and critical-path turnaround services, instrumentation and electrical services, piping, fabrication and storage tank services to the midstream and downstream industrial energy markets. This segment also provides engineering and construction services for pipeline systems, storage systems and compressor and pump stations and the fabrication of pipeline support systems and related structures and facilities, as well as trenching, directional boring and mechanized welding services related to the above services and in connection with electric power infrastructure solutions. To a lesser extent, this segment includes construction services for the offshore energy market and designs, installs and maintains fueling systems and water and sewer infrastructure.

## Acquisitions

During the year ended December 31, 2020, Quanta acquired a contractor located in the United States that provides electric power distribution, transmission and substation maintenance and construction, directional boring and emergency restoration services; a professional engineering business located in the United States that provides infrastructure engineering and design services to electric utilities, gas utilities and communications services companies, as well as permitting and utility locating services; a business located in the United States that provides aviation services primarily for the utility industry; an electric power infrastructure business located in the United States that primarily provides underground conduit services; a business located in the United States that protectes in the United States that provides and in the United States that provides underground conduit services; a business located in the United States that provides underground conduit services; a business located in the United States that provides underground conduit services; a business located in the United States that provides underground conduit services; a business located in the United States that provides underground conduit services; a business located in the United States that provides underground conduit services; a business located in the United States that provides underground conduit services and and the performs catalyst handling services, including changeover and shutdown maintenance, for customers in the refining and chemical industries; and a business located in the United States that provides heavy, civil, industrial and energy related services and specializes in the construction and maintenance of pipelines and metering stations.

During the year ended December 31, 2019, Quanta acquired an underground utility and infrastructure solutions business located in the United States that specializes in gas distribution and transmission services, and to a lesser extent, underground electric distribution and transmission services. During the year ended December 31, 2019, Quanta also acquired two speciality



utility foundation and pole-setting contractors serving the southeast United States; an electric power specialty contracting business located in the United States that provides aerial power line and construction support services; a business located in the United States that provides technical training materials to electric utility workers; an electric power company specializing in project management and, to a lesser extent, water and wastewater projects located in the United States; and an electrical infrastructure solutions business located in Canada.

During the year ended December 31, 2018, Quanta acquired an electrical infrastructure solutions business specializing in substation construction and relay services, a postsecondary educational institution that provides training and programs for workers in the industries Quanta serves, and two communications infrastructure solutions businesses, all of which are located in the United States.

# 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

#### Principles of Consolidation

The consolidated financial statements of Quanta include the accounts of Quanta Services, Inc. and its wholly-owned subsidiaries, which are also referred to as its operating units. The consolidated financial statements also include the accounts of certain of Quanta's investments in joint ventures, which are either consolidated or proportionately consolidated, as discussed in the following summary of significant accounting policies. Investments in affiliated entities in which Quanta does not have a controlling financial interest, but over which Quanta has significant influence, usually because Quanta holds a voting interest of between 20% and 50%, are accounted for using the equity method. All significant intercompany accounts and transactions have been eliminated in consolidation. Unless the context requires otherwise, references to Quanta include Quanta Services, Inc. and its consolidated subsidiaries.

#### Use of Estimates and Assumptions

The preparation of financial statements in conformity with GAAP requires the use of estimates and assumptions by management in determining the reported amounts of assets and liabilities, disclosures of contingent assets and liabilities known to exist as of the date the financial statements are published, and the reported amounts of revenues and expenses recognized during the periods presented. Quanta reviews all significant estimates affecting its consolidated financial statements on a recurring basis and records the effect of any necessary adjustments prior to their publication. Judgments and estimates are based on Quanta's beliefs and assumptions derived from information available at the time such judgments and estimates are made. Uncertainties with respect to such estimates and assumptions are inherent in the preparation of financial statements. Estimates are primarily used in Quanta's assessment of the allowance for credit losses, valuation of inventory, useful lives of assets, fair value assumptions in analyzing goodwill, other intangibles and long-lived asset impairments, equity and other investments, purchase price allocations, acquisition-related contingent consideration liabilities, multiemployer pension plan withdrawal liabilities, contingent liabilities associated with, among other things, legal proceedings and claims, parent guarantees and indemnity obligations, revenue recognition for construction contracts inclusive of contractual change orders and claims, estimated insurance claim recoveries, stock-based compensation, operating results of reportable segments, provision for income taxes, and uncertain tax positions.

#### **Revenue Recognition**

#### Contracts

Quanta's services include the design, new construction, upgrade and repair and maintenance of infrastructure in the electric power, communications and energy industries. These services may be provided pursuant to master service agreements (MSAs), repair and maintenance contracts and fixed price and non-fixed price construction contracts. These contracts are classified into three categories based on how transaction prices are determined and revenue is recognized: unit-price contracts, cost-plus contracts and fixed price contracts. Transaction prices for unit-price contracts are determined on a per unit basis, transaction prices for cost-plus contracts are determined by applying a profit margin to costs incurred on the contracts and transaction prices for fixed price contracts are determined on a lump-sum basis. All of Quanta's revenues are recognized from contracts has commercial substance and the contract has been approved. Additionally, the contract must contain payment terms, as well as the rights and commitments of both parties.

#### Performance Obligations

A performance obligation is a promise in a contract with a customer to transfer a distinct good or service. Most of Quanta's contracts are considered to have a single performance obligation whereby Quanta is required to integrate complex activities and equipment into a deliverable for a customer. For contracts with multiple performance obligations, Quanta allocates a portion of the total transaction price to each performance obligation using its best estimate of the standalone selling price of the distinct good or service associated with each performance obligation. Standalone selling price is estimated using the expected costs plus a margin.

At December 31, 2020 and 2019, the aggregate transaction price allocated to unsatisfied or partially satisfied performance obligations was approximately \$9.99 billion and \$5.30 billion, of which 71.2% and 59.5% were expected to be recognized in the subsequenttwelve months. These amounts represent management's estimate of the consolidated revenues that are expected to be realized from the remaining portion of firm orders under fixed price contracts not yet completed or for which work had not yet begun. For purposes of calculating remaining performance obligations, Quanta includes all estimated revenues attributable to consolidated joint ventures and variable interest entities, revenues from funded and unfunded portions of government contracts to the extent they are reasonably expected to be realized and revenues from change orders and claims to the extent management believes additional contract revenues will be earned and are deemed probable of collection. Excluded from remaining performance obligations are potential orders under MSAs and non-fixed price contracts expected to be completed within one year.

#### Recognition of Revenue Upon Satisfaction of Performance Obligations

A transaction price is determined for each contract, and that amount is allocated to each performance obligation within the contract and recognized as revenue when, or as, the performance obligation is satisfied. Quanta generally recognizes revenue over time as it performs its obligations because there is a continuous transfer of control of the deliverable to the customer. Under unit-price contracts with an insignificant amount of partially completed units, Quanta recognizes revenue as units are completed based on contractual pricing amounts. Under unit-price contracts with more than an insignificant amount of partially completed units and fixed price contracts, Quanta recognizes revenues as performance obligations are satisfied over time, with the percentage completion generally measured as the percentage of costs incurred to total estimated costs for such performance obligation. Under cost-plus contracts, Quanta recognizes revenue on an input basis, as labor hours are incurred, materials are utilized and services are performed.

Under contracts where Quanta has a right to consideration in an amount that directly corresponds to the value of completed performance, Quanta recognizes revenue in such amount and does not include such performance as a remaining performance obligation. Also, contract consideration is not adjusted for a significant financing component if payment is expected to be collected less than one year from when the services are performed.

Contract costs include all direct materials, labor and subcontract costs and indirect costs related to contract performance, such as indirect labor, supplies, tools, repairs and depreciation costs. The majority of the materials associated with Quanta's work are owner-furnished, and therefore not included in contract revenues and costs. Additionally, Quanta may incur incremental costs to obtain certain contracts, such as selling and marketing costs, bid and proposal costs, sales commissions, and legal fees or initial set-up or mobilization costs, certain of which can be capitalized. Such costs were not material during the years ended December 31, 2020, 2019 and 2018.

#### Contract Estimates

Actual revenues and project costs can vary, sometimes substantially, from previous estimates due to changes in a variety of factors, including unforeseen or changed circumstances not included in Quanta's cost estimates or covered by its contracts. The estimating process is based on the professional knowledge and experience of Quanta's project estimators, project managers and finance professionals. Some of the factors that can lead to positive changes in estimates on projects include successful execution through project risks, reduction of estimated project costs or increases of estimated revenues. Some of the factors that may lead to negative changes in estimates include concealed or unknown site conditions; changes to or disputes with customers regarding the scope of services; changes in estimates related to the length of time to complete a performance obligation; changes or delays with respect to permitting and regulatory requirements; changes in the cost of equipment, commodities, materials or labor; unanticipated costs or claims due to delays or failure to perform by customers or third parties; customer failure to provide required materials or equipment; errors in engineering, specifications or designs; project modifications; adverse weather conditions, natural disasters, and other emergencies (including the ongoing pandemic as a result of the novel coronavirus disease (COVID-19) that began in 2019); and performance and quality issues causing delay (including payment of liquidated damages) or requiring rework or replacement. These factors, along with other risks inherent in performing services under fixed price contracts, are routinely evaluated by management. Any changes in estimates could result in changes to profitability or losses associated with the related performance obligations. For example, estimated costs for a performance obligation may increase from an original estimate, and contractual provisions may not allow for adequate compensation or

reimbursement for such additional costs. Changes in estimated revenues, costs and profit are recorded in the period they are determined to be probable and can be reasonably estimated. Contract losses are recognized in full when they are determined to be probable and can be reasonably estimated.

Changes in cost estimates on certain contracts may result in the issuance of change orders, which can be approved or unapproved by the customer, or the assertion of contract claims. Quanta determines the probability that costs associated with change orders and claims will be recovered based on, among other things, contractual entitlement, past practices with the customer, specific discussions or preliminary negotiations with the customer and verbal approvals by the customer. Quanta recognizes amounts associated with change orders and claims as revenue if it is probable that the contract price will be adjusted and the amount of any such adjustment can be reliably estimated. Most of Quanta's change orders are for services that are not distinct from an existing contract and are accounted for as part of an existing contract on a cumulative catch-up basis. Quanta accounts for a change order as a separate contract if the additional goods or services are distinct from and increase the scope of the contract, and the price of the contract increases by an amount commensurate to Quanta's standalone selling price for the additional goods or services.

As of December 31, 2020 and 2019, Quanta had recognized revenues of \$141.2 million and \$170.0 million related to change orders and claims included as contract price adjustments and that were in the process of being negotiated in the normal course of business. These aggregate amounts, which are included in "Contract assets" in the accompanying consolidated balance sheets, represent management's estimates of additional contract revenues that have been earned and are probable of collection. However, Quanta's estimates could change, and the amount ultimately realized could be significantly higher or lower than the estimated amount.

Variable consideration amounts, including performance incentives, early pay discounts and penalties, may also cause changes in contract estimates. The amount of variable consideration is estimated based on the most likely amount that is deemed probable of realization. Contract consideration is adjusted for variable consideration when it is probable that a significant reversal in the amount of cumulative revenue recognized will not occur once the uncertainty related to the variable consideration is resolved.

Changes in contract estimates are recognized on a cumulative catch-up basis in the period in which the revisions to the estimates are made. Such changes in estimates can result in the recognition of revenue in a current period for performance obligations that were satisfied or partially satisfied in prior periods or the reversal of previously recognized revenue if the current estimate differs from the previous estimate. The impact of a change in contract estimate is measured as the difference between the revenue or gross profit recognized in the prior period as compared to the revenue or gross profit which would have been recognized had the revised estimate been used as the basis of recognition in the prior period.

Operating results for the years ended December 31, 2020, 2019 and 2018 were impacted by less than 5% as a result of aggregate changes in contract estimates related to projects that were in progress at December 31, 2019, 2018 and 2017.

Certain projects were materially impacted by changes to estimated contract revenues and/or project costs during the year ended December 31, 2020. During the year ended December 31, 2020, revenues and gross profit were favorably impacted by \$20.8 million as a result of successful execution through project risks and close-out activities on a larger electric transmission project in the United States. Revenues and gross profit were also favorably impacted as a result of successful execution through project risks and close-out activities on certain larger pipeline projects in the United States. The favorable impact related to these larger pipeline projects was offset by increased costs on two larger pipeline projects in Canada that experienced severe weather conditions during the year ended December 31, 2020, both of which were substantially complete as of December 31, 2020. With respect to all of these larger pipeline projects, the aggregate net negative impact on gross profit related to work performed in prior periods was \$10.0 million during the year ended December 31, 2020.

Additionally, during the year ended December 31, 2020, Quanta was pursuing the exit of its Latin American operations. These operations have been adversely impacted by the COVID-19 pandemic due to shelter-in-place restrictions and other work disruptions, and as a result Quanta accelerated various contract terminations and other activities in order to expedite cessation of operations in the region. The decision to accelerate the exit activities in 2020 materially changed certain contract estimates as of December 31, 2019 due to significant reductions in the volume of work to be performed, as well as lower productivity than expected. The majority of the impacts of these developments were not recoverable from the customers. These factors, as well as political and regulatory uncertainties and other customer challenges, resulted in changes in estimates on several projects and negatively impacted gross profit related to work performed in prior periods by \$35.5 million in aggregate during year ended December 31, 2020. As of December 31, 2020, substantially all of the projects in Latin America that were active at the beginning of 2020 had been completed, and none of the remaining projects are individually expected to have a material negative impact on Quanta's gross profit. However, the primary risk that gross profit on the remaining projects could be negatively impacted further is the continuing uncertainty related to the potential duration and severity of the COVID-19 pandemic in the region.

Certain projects were materially impacted by changes to estimated contract revenues and/or project costs during the year ended December 31, 2019. The following amounts were recorded during the year ended December 31, 2019 but were related to prior periods. Quanta successfully completed an electric transmission project in Canada ahead of schedule during the three months ended March 31, 2019, which resulted in a reduction in estimated project costs and positively impacted gross profit related to work performed in prior periods by \$30.1 million. Quanta also successfully executed through project risks on a larger pipeline transmission project, which resulted in a reduction of estimated project costs and positively impacted gross profit in 2019 related to work performed in prior periods by \$22.9 million. Quanta also settled claims related to a larger natural gas transmission project that experienced losses in 2018, which increased revenues and gross profit in 2019 related to work performed in prior periods by \$29.4 million. Additional estimated project costs and start-up delays on a processing facility construction project, which resulted in additional estimated project costs and liquidated damages payable to the customer and negatively impacted gross profit related to work performed in prior periods by \$29.4 million. As of December 31, 2020, this project was complete. Quanta also experienced unfavorable weather and labor-related impacts, as well as a project scope reduction, on an electric transmission project in southern California, which resulted in an increase in estimated project costs and a reduction of \$9.6 million of prior period sty \$407 million and was approximately 95% complete. Additionally, the changes in contract estimates include the negative impact of the correction of \$9.6 million of prior period errors related to the determination of total estimated project costs and the resulting revenue recognized on a large telecommunications project in Peru that was terminated during 2019.

Certain projects were materially impacted by changes to estimated contract revenues and/or project costs during the year ended December 31, 2018. The following amounts were recorded during the year ended December 31, 2018 but were related to prior periods. Quanta experienced engineering and production delays on the processing facility construction project discussed above, which resulted in additional estimated construction costs. These changes in estimates negatively impacted gross profit related to work performed in prior periods by \$34.2 million. Quanta also experienced unexpected site conditions, adverse weather conditions and material delivery delays on a renewable energy power project in Australia that negatively impacted gross profit related to work performed in prior periods by \$22.3 million. Additionally, a natural gas pipeline construction project in the northeast United States experienced weather delays and project performance issues resulting in additional estimated construction costs that negatively impacted gross profit related to work performed in prior periods by \$17.3 million. Quanta also successfully executed through project procurement, winter schedule challenges and productivity risks on the electrical transmission project in Canada mentioned above, resulting in reductions to the estimated total costs necessary to complete the project. These changes positively impacted gross profit related to work performed in prior periods by \$52.2 million.

# Revenues by Category.

The following tables present Quanta's revenue disaggregated by geographic location, as determined by the job location, and contract type (in thousands):

			Year Ended Decem	ber 31,		
	 2020		2019		2018	
By primary geographic location:						
United States	\$ 9,618,951	85.8 % \$	10,190,684	84.0 % \$	8,575,341	78.6 %
Canada	1,252,365	11.2 %	1,436,720	11.9 %	1,984,214	16.4 %
Australia	200,664	1.8 %	187,915	1.6 %	377,453	3.1 %
Latin America and Other	130,692	1.2 %	296,834	2.5 %	234,415	1.9 %
Total revenues	\$ 11,202,672	100.0 % \$	12,112,153	100.0 %	11,171,423	100.0 %

	 Year Ended December 31,									
	 2020		2019		2018					
By contract type:										
Unit-price contracts	\$ 4,172,363	37.2 %	\$ 4,193,295	34.6 %	\$ 3,828,997	39.4 %				
Cost-plus contracts	2,649,770	23.7 %	3,304,161	27.3 %	2,507,025	20.7 %				
Fixed price contracts	4,380,539	39.1 %	4,614,697	38.1 %	4,835,401	39.9 %				
Total revenues	\$ 11,202,672	100.0 %	\$ 12,112,153	100.0 %	\$ 11,171,423	100.0 %				

As described above, under unit-price contracts with more than an insignificant amount of partially completed units and fixed price contracts, revenue is recognized as performance obligations are satisfied over time, with the percentage completion generally measured as the percentage of costs incurred to total estimated costs for such performance obligation. Approximately 47.9%, 50.0% and 57.7% of Quanta's revenues recognized during the years ended December 31, 2020, 2019 and 2018 were associated with this revenue recognition method.

#### Contract Assets and Liabilities

With respect to Quanta's contracts, interim payments are typically received as work progresses in accordance with agreed-upon contractual terms, either at periodic intervals or upon achievement of contractual milestones. As a result, under fixed price contracts, the timing of revenue recognition and contract billings results in contract assets and contract liabilities. Contract assets represent revenues recognized in excess of amounts billed for fixed price contracts and are current assets that are transferred to accounts receivable when billed or the billing rights become unconditional. Contract assets are not considered a significant financing component as they are intended to protect the customer in the event Quanta does not perform on its obligations under the contract.

Conversely, contract liabilities represent billings in excess of revenues recognized for fixed price contracts. These arise under certain contracts that allow for upfront payments from the customer or contain contractual billing milestones, which result in billings that exceed the amount of revenues recognized for certain periods. Contract liabilities are current liabilities and are not considered to have a significant financing component, as they are used to meet working capital requirements that are generally higher in the early stages of a contract and are intended to protect Quanta from the other party failing to meet its obligations under the contract. Contract assets and liabilities are recorded on a performance obligation basis at the end of each reporting period.

Contract assets and liabilities consisted of the following (in thousands):

	Decembe	r 31, 2020	_	December 31, 2019	December 31, 2018
Contract assets	\$	453,832	\$	601,268	\$ 576,891
Contract liabilities	\$	528,864	\$	606,146	\$ 425,961

As referenced previously, contract assets and liabilities fluctuate period to period based on various factors, including, among others, changes in the number and size of projects in progress at period end and variability in billing and payment terms, such as up-front or advance billings, interim or milestone billings, or deferred billings. The decrease in contract assets from December 31, 2019 to December 31, 2020 was partially due to a decline in revenues related to contracts for which revenues are

recognized over time. Additionally, Quanta's exit from and the close out of projects in Latin America also contributed to the reduction.

Revenues were positively impacted by \$27.0 million during the year ended December 31, 2020 as a result of changes in estimates associated with performance obligations on fixed price contracts partially satisfied prior to December 31, 2019. During the year ended December 31, 2020, Quanta recognized revenue of approximately \$491.5 million related to contract liabilities outstanding at December 31, 2019.

## Current and Long-Term Accounts Receivable, Notes Receivable and Allowance for Credit Losses

As described in Note 3, Quanta adopted the new accounting standard for measuring credit losses effective January 1, 2020 utilizing the transition method that allows recognition of a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. Quanta's financial results for reporting periods beginning on or after January 1, 2020 are presented under the new standard, while financial results for prior periods continue to be reported in accordance with the prior standard and Quanta's historical accounting policy. The net cumulative effect due to the adoption of the new standard was a \$3.8 million reduction to retained earnings as of January 1, 2020, which represented a \$5.1 million increase to allowance for credit losses, net of \$1.2 million in deferred income taxes. The adjustment was based on an estimate of expected lifetime credit losses for financial statements at the date of adoption, expected credit losses could change as a result of changes in credit loss experience, changes to specific risk characteristics of Quanta's portfolio of financial assets or changes to management's expectations of future economic conditions that affect the collectability of Quanta's financial assets. At the end of each quarter, management reassesses these factors, including any potential effects from the ongoing COVID-19 pandemic.

The assessment of the allowance for credit losses involves certain judgments and estimates. Management estimates the allowance balance using relevant available information from internal and external sources relating to past events, current conditions and reasonable and supportable forecasts. Expected credit losses are estimated by evaluating trends in historical write-off experience and applying historical loss ratios to pools of financial assets with similar risk characteristics. Quanta has determined that it has one pool for the purpose of calculating its historical credit loss experience.

Quanta's historical loss ratio and its determination of risk pools may be adjusted for changes in customer credit concentrations within its portfolio of financial assets, its customers' ability to pay, and other considerations such as changes to the market, regulatory or technological environments affecting its customers and the consistency of the current and forecasted economic conditions relative to the historical period used to derive historical loss ratios.

Additional allowance for credit losses is established for financial asset balances with specific customers where collectability has been determined to be improbable based on customer specific facts and circumstances. Quanta considers accounts receivable delinquent after 30 days but does not generally consider such amounts delinquent in its credit loss analysis unless the accounts receivable have been outstanding for at least 90 days. In addition to monitoring delinquent accounts, management monitors the credit quality of its receivables by, among other things, obtaining credit ratings of significant customers, assessing economic and market conditions and evaluating material changes to a customer's business, cash flows and financial condition. Should anticipated recoveries relating to receivables fail to materialize, including anticipated recoveries relating to bankruptcies or other workout situations, Quanta could experience reduced cash flows and losses in excess of current allowances provided.

Activity in Quanta's allowance for credit losses consisted of the following (in thousands):

	Year Ended December 31,						
		2020		2019	L	2018	
Balance at beginning of year	\$	9,398	\$	5,839	\$	4,465	
Adoption of new credit loss standard		5,067		_		_	
Charges to bad debt expense		3,656		11,249		7,169	
Direct write-offs charged against the allowance		(1,575)		(7,690)		(5,795)	
Balance at end of year	\$	16,546	\$	9,398	\$	5,839	

Long-term accounts receivable are included within "Other assets, net" in the accompanying consolidated balance sheets. As of December 31, 2020 and 2019, long-term accounts receivable were \$13.4 million and \$12.4 million.

Certain contracts allow customers to withhold a small percentage of billings pursuant to retainage provisions, and such amounts are generally due upon completion of the contract and acceptance of the project by the customer. Based on Quanta's experience in recent years, the majority of these retainage balances are expected to be collected within approximately twelve

months. Retainage balances with expected settlement dates within the next twelve months as of December 31, 2020 and 2019 were \$06.3 million and \$299.6 million, which are included in "Accounts receivable." Retainage balances with expected settlement dates beyond the next twelve months are included in "Other assets, net," and as of December 31, 2020 and 2019 were \$88.2 million and \$54.2 million.

Quanta recognizes unbilled receivables for non-fixed price contracts within "Accounts receivable" in certain circumstances, such as when revenues have been earned and recorded but the amount cannot be billed under the terms of the contract until a later date or amounts arise from routine lags in billing (for example, work completed one month but not billed until the next month). These balances do not include revenues recognized for work performed under fixed-price contracts, as these amounts are recorded as "Contract assets." At December 31, 2020, 2019 and 2018, unbilled receivables included in "Accounts receivable" were \$472.3 million, \$524.3 million and \$434.9 million. Quanta also recognizes unearned revenues for non-fixed price contracts when cash is received prior to recognizing revenues for the related performance obligation. Unearned revenues, which are included in "Accounts payable and accrued expenses," were \$53.6 million, \$33.2 million and \$40.1 million at December 31, 2020, 2019 and 2018.

#### Cash and Cash Equivalents

Amounts related to Quanta's cash and cash equivalents based on geographic location of the bank accounts were as follows (in thousands):

	December 31,			
	2020		2019	
Cash and cash equivalents held in domestic bank accounts	\$ 156,122	\$	130,771	
Cash and cash equivalents held in foreign bank accounts	28,498		34,027	
Total cash and cash equivalents	\$ 184,620	\$	164,798	

Cash consisting of interest-bearing demand deposits is carried at cost, which approximates fair value. Quanta considers all highly liquid investments with an original maturity of three months or less at the time of purchase to be cash equivalents, which are carried at fair value. At December 31, 2020 and 2019, cash equivalents were \$98.0 million and \$37.8 million and consisted primarily of money market investments and money market mutual funds and are discussed further in Fair Value Measurements below.

Cash and cash equivalents held by joint ventures, which are either consolidated or proportionately consolidated, are available to support joint venture operations, but Quanta cannot utilize those assets to support its other operations. Quanta generally has no right to cash and cash equivalents held by a joint venture other than participating in distributions and in the event of dissolution. Amounts related to cash and cash equivalents held by joint ventures, which are included in Quanta's total cash and cash equivalents balances, were as follows (in thousands):

	December 31,				
	202	20	2019		
Cash and cash equivalents held by domestic joint ventures	\$	7,714 \$	6,518		
Cash and cash equivalents held by foreign joint ventures		3,973	16		
Total cash and cash equivalents held by joint ventures		11,687	6,534		
Cash and cash equivalents not held by joint ventures		172,933	158,264		
Total cash and cash equivalents	\$	184,620 \$	164,798		

#### Inventories

Inventories consist primarily of parts and supplies held for use in the ordinary course of business, which are valued by Quanta at the lower of cost or net realizable value. Cost is determined by using either the first-in, first-out (FIFO) method or the average costing method. Inventories also include certain job specific materials not yet installed, which are valued using the specific identification method.

## **Property and Equipment**

Property and equipment are stated at cost, and depreciation is computed using the straight-line method, net of estimated salvage values, over the estimated useful lives of the assets. Leasehold improvements are capitalized and amortized over the lesser of the life of the lease or the estimated useful life of the asset. Depreciation expense related to property and equipment is



recognized on a straight-line basis over the estimated useful lives of the assets and was \$25.3 million, \$218.1 million and \$202.5 million for the years ended December 31, 2020, 2019 and 2018.

Accrued capital expenditures were \$11.3 million and \$10.0 million as of December 31, 2020 and 2019. The impact of these items has been excluded from Quanta's capital expenditures in the accompanying consolidated statements of cash flows due to their non-cash nature.

Expenditures for repairs and maintenance are charged to expense when incurred. Expenditures for major renewals and betterments, which extend the useful lives of existing equipment, are capitalized and depreciated over the adjusted remaining useful lives of the assets. Upon retirement or disposition of property and equipment, the cost and related accumulated depreciation are removed from the accounts and any resulting gain or loss is reflected in selling, general and administrative expenses.

Management reviews long-lived assets for impairment whenever events or changes in circumstances indicate that the carrying amount may not be realizable. When an evaluation is required, the estimated future undiscounted cash flows associated with the asset group are compared to the asset group's carrying amount to determine if an impairment is necessary. The effect of any impairment involves expensing the difference between the fair value of the asset group and its carrying amount in the period incurred.

Quanta recorded asset impairment charges of \$8.3 million during the year ended December 31, 2020 related to the exit of its Latin American operations and due to the planned sale of certain equipment. Quanta also recorded asset impairment charges of \$13.9 million during the year ended December 31, 2019 related to the winding down and exit of certain oil-influenced operations and assets, the replacement of an internally-developed software application and the planned sale and exit of certain foreign operations and assets. Quanta also recorded asset impairments of \$49.4 million during the year ended December 31, 2018 primarily related to the winding down of certain oil-influenced operations and assets. The long-lived assets related to the December 31, 2018 impairment were written down to their estimated fair value of \$14.0 million and were classified as assets held for sale and recorded in "Prepaid expenses and other current assets" as of December 31, 2018, \$5.0 million of which remained in the accompanying December 31, 2020 consolidated balance sheet.

#### Debt Issuance and Amendment Costs Related to Senior Credit Facility

Capitalized debt issuance and amendment costs related to Quanta's senior credit facility are included in "Other assets, net" in the accompanying consolidated balance sheets and are amortized to interest expense on a straight-line basis over the terms of the respective agreements giving rise to the costs, which Quanta believes approximates the effective interest rate method. During 2020, 2019 and 2018, Quanta incurred \$11.1 million, \$2.3 million and \$2.0 million of debt issuance and amendment costs related to amendments of the credit agreement for its senior credit facility. As of December 31, 2020 and 2019, capitalized debt issuance and amendment costs related to Quanta's senior credit facility were \$10.3 million and \$17.2 million, with accumulated amortization of \$0.6 million and \$10.5 million. For the years ended December 31, 2020, 2019 and 2018, amortization expense related to capitalized debt issuance and amendment costs related to Quanta's senior credit facility was \$5.1 million, \$1.9 million.

#### Goodwill

Goodwill, net of accumulated impairment losses, represents the excess of cost over the fair market value of net tangible and identifiable intangible assets of acquired businesses and is stated at cost. Quanta has recorded goodwill in connection with its historical acquisitions of businesses. Upon acquisition, these businesses were either combined into one of Quanta's existing operating units or managed on a stand-alone basis as an individual operating unit. Quanta's operating units are organized into two divisions: the Electric Power Infrastructure Solutions Division and the Underground Utility and Infrastructure Solutions Division. As most of the companies acquired by Quanta provide multiple types of services for multiple types of customers, these divisional designations are based on the predominant type of work performed by an operating unit at the point in time the divisional designation is made. Goodwill is required to be measured for impairment at the reporting unit level, which represents the operating segment level or one level below the operating segment level for which discrete financial information is available. Quanta has determined that its individual operating units reporting units reporting units for the purpose of assessing goodwill impairment.

Goodwill is not amortized but is tested for impairment annually in the fourth quarter of the fiscal year, or more frequently if events or circumstances arise which indicate that goodwill may be impaired. The assessment can be performed by first completing a qualitative assessment on none, some or all of Quanta's reporting units. Quanta can also bypass the qualitative assessment for any reporting unit in any period and proceed directly to a quantitative impairment test, and then resume the qualitative assessment in any subsequent period. Qualitative indicators that may trigger the need for annual or interim quantitative impairment testing include, among other things, deterioration in macroeconomic conditions, declining financial performance, deterioration in the operational environment, or an expectation of selling or disposing of a portion of a reporting

unit. Additionally, an interim impairment test of a reporting unit may be triggered by a significant change in market, management, business strategy or business climate; a loss of a significant customer; increased competition; a sustained decrease in share price; or a decrease in Quanta's market capitalization below book value.

If Quanta believes that, as a result of its qualitative assessment, it is more likely than not that the fair value of a reporting unit is less than its carrying amount, the quantitative impairment test is required. The quantitative test involves comparing the fair value of each of Quanta's reporting units with its carrying amount, including goodwill. If the carrying amount of a reporting unit exceeds its fair value, an impairment loss is recorded as a reduction to goodwill with a corresponding charge to "Asset impairment charges" in the consolidated statements of operations. The income tax effect associated with an impairment of tax-deductible goodwill is also considered in the measurement of the goodwill impairment. A goodwill impairment for any reporting unit is limited to the total amount of goodwill allocated to such reporting unit.

Quanta generally determines the fair value of its reporting units using a weighted combination of the income approach (discounted cash flow method) and market multiple valuation techniques (market guideline transaction method and market guideline public company method), with greater weight placed on the discounted cash flow method because management believes this method results in the most appropriate calculation of fair value and reflects an expectation of market value as determined by a "held and used" model. However, Quanta determined the fair value of its reporting units as of December 31, 2020 using only the income approach due to the impact of the challenged energy market and the exacerbating effect of the COVID-19 pandemic during 2020, which has continued into 2021. Quanta determined that the use of market multiple valuations applied to 2020 and 2021 financial results would not yield valuations reflective of fair market value.

Under the discounted cash flow method, Quanta determines fair value based on the estimated future cash flows for each reporting unit, discounted to present value using a risk-adjusted industry weighted average cost of capital, which reflects the overall level of inherent risk for each reporting unit and the rate of return an outside investor would expect to earn. Cash flow projections are derived from budgeted amounts (typically a one-year model) and subsequent period cash flows are developed for each reporting unit using growth rates that management believes are reasonably likely to occur. A terminal value is derived from a multiple of the reporting unit's earnings before interest, taxes, depreciation and amortization (EBITDA). The EBITDA multiples for each reporting unit are based on observed purchase transactions for similar businesses adjusted for size, volatility and risk.

Under the market guideline transaction and market guideline public company methods, Quanta determines the estimated fair value for each of its reporting units by applying transaction multiples and public company multiples, respectively, to each reporting unit's projected and historical EBITDA average. The transaction multiples are based on observed purchase transactions for similar businesses adjusted for size, volatility and risk. The public company multiples are based on peer group multiples adjusted for size, volatility and risk. For the market guideline public company method, Quanta adds a reasonable control premium, which is estimated as the premium that would be appropriate to convert the reporting unit value to a controlling interest basis.

As of December 31, 2020, the inherent assumptions and estimates used in developing future cash flows and market valuations include projected revenues and margins and weighted average costs of capital. As of December 31, 2019 and 2018, the inherent assumptions and estimates used in developing future cash flows and market valuations include projected revenues and margins, weighted average cost of capital and market multiples. The following table presents the significant estimates used by management in determining the fair values of Quanta's reporting units for which a quantitative assessment was performed at December 31, 2020, 2019 and 2018:

	2020	2019	2018
Years of cash flows before terminal value	5 years	5 years	5 years
Weighted average cost of capital	12.5% to 13.5%	12.5%	12.0% to 15.0%
Transaction multiple(s) applied to EBITDA	6.0 to 9.0	6	6.5 to 9.0
Guideline public company multiple(s) applied to EBITDA	N/A	6.5	6.5 to 9.5
Five-year revenue compounded annual growth rate(s)	-8% to 26%	-9%	-14% to 8%
Weighting of three methods:			
Discounted cash flows	100%	70%	70%
Market multiple	%	15%	15%
Market capitalization	%	15%	15%

The currently challenged energy market and recent oil price volatility, as well as the exacerbating effect of the COVID-19 pandemic resulted in significantly lower revenues during the year ended December 31, 2020 as compared to the previous year for the reporting units for which a quantitative assessment was performed. The range of compounded annual growth rates in 2020 reflects Quanta's expectation of a recovery over the five-year period used in the goodwill model.

In connection with the annual goodwill assessment performed during the fourth quarter of 2020, Quanta assessed qualitative factors to determine whether it was necessary to perform a quantitative fair value impairment analysis and identified certain reporting units for which a quantitative goodwill impairment assessment was deemed appropriate based on financial performance indicators. The subsequent quantitative analysis indicated that the fair value of each reporting unit was in excess of its carrying amount. Accordingly, Quanta did not record any impairment charges related to goodwill during the fourth quarter of 2020. In connection with the 2019 and 2018 annual goodwill assessments, Quanta assessed qualitative factors to determine whether it was necessary to perform a quantitative fair value impairment analysis and also identified certain reporting units for which quantitative goodwill impairment assessments were deemed appropriate based on financial performance indicators. The subsequent quantitative analyses indicated that the fair value of each reporting units for which quantitative goodwill impairment assessments were deemed appropriate based on financial performance indicators. The subsequent quantitative analyses indicated that the fair values of the reporting units were in excess of their carrying amounts. Accordingly, Quanta did not record any impairment charges related to goodwill during the fourth quarters of 2019 or 2018.

Although no goodwill impairment charges were recorded during the year ended December 31, 2020, the determination of a reporting unit's fair value requires judgment and the use of significant estimates and assumptions. Quanta believes the estimates and assumptions used in its impairment assessments are reasonable and based on available market information obtained from relevant industry sources; however, variations in any of the assumptions could result in materially different calculations of fair value and impairment determinations. Accordingly, management considered the sensitivity of its fair value estimates to changes in certain valuation assumptions. After taking into account a 10% decrease in fair value of the reporting units for which a quantitative impairment test was performed, three reporting units within Quanta's Underground Utility and Infrastructure Solutions Division would have fair values below their carrying amounts.

With respect to reporting units within Quanta's Underground Utility and Infrastructure Solutions Division, the potential impact of the energy market challenges and the COVID-19 pandemic is uncertain and depends on numerous factors, and therefore the negative impact could continue or increase in future periods. In particular, due to the recent significant decline in commodity prices and volatility in commodity production volumes, the effect of which has been exacerbated by the COVID-19 pandemic, two Canadian pipeline-related businesses and a United States material handling services business with aggregate goodwill and intangible asset balances totaling \$99.8 million and \$19.5 million have an increased risk of goodwill impairment in the near and medium term. Management considered the sensitivity of its fair value estimates to changes in certain valuation assumptions for these reporting units. After taking into account a 10% decrease in fair value, these reporting units would have fair values below their carrying amounts. In addition, a specialized industrial services during the year ended December 31, 2020, as customers have reduced and deferred regularly scheduled maintenance due to lack of demand for certain services during the year ended December 31, 2020, as customers have reduced and deferred regularly scheduled maintenance due to lack of demand for this reporting unit. After taking into account a 10% decrease in fair value, the reporting unit would have a fair value estimates to changes in certain valuation assumptions for this reporting unit. After taking into account a 10% decrease in fair value, the reporting unit would have a fair value estimates to changes in certain valuation assumptions for this reporting unit. After taking into account a 10% decrease in fair value, the reporting unit would have a fair value estimates to changes in certain valuation assumptions for this reporting unit. After taking into account a 10% decrease in fair value, the reporting unit would have a fair value in excess of its

# Other Intangible Assets

Quanta's intangible assets include customer relationships, backlog, trade names, non-compete agreements, patented rights and developed technology and curriculum, all of which are subject to amortization, as well as an engineering license, which is not subject to amortization. The fair value of customer relationships is estimated as of the date a business is acquired based on the value-in-use concept utilizing the income approach, specifically the multi-period excess earnings method. This method discounts to present value the projected cash flows attributable to the customer relationships, with consideration given to customer contract renewals and estimated customer attrition rates. The significant estimates used by management in determining the fair values of customer relationship intangible assets include future revenues, discount rates and customer attrition rates. The following table presents the range and weighted average based on acquisition date fair value for discount and attrition rates used in the valuation of customer relationship intangible assets during the years ended December 31, 2020, 2019 and 2018:

		2020	2019			2018
	Range	Weighted Average	Range	Weighted Average	Range	Weighted Average
Discount rates	19% to 25%	20%	19% to 24%	24%	20% to 27%	25%
Customer attrition rates	10% to 43%	13%	5% to 37%	6%	20% to 33%	22%

Quanta values backlog for acquired businesses as of the acquisition date based upon the contractual nature of the backlog within each service line, discounted to present value. The values of trade names and curriculum are estimated using the relief-from-royalty method of the income approach, which is based on the assumption that in lieu of ownership, a company would be willing to pay a royalty for use of the trade name or curriculum. The value of a non-compete agreement is estimated based on

the difference between the present value of the prospective cash flows with the agreement in place and the present value of the prospective cash flows without the agreement in place. The value of the engineering license is based on cash paid to acquire the asset.

Quanta amortizes the intangible assets that are subject to amortization based upon the estimated consumption of their economic benefits, or on a straight-line basis if the pattern of economic benefit cannot otherwise be reliably estimated. Intangible assets are reviewed for impairment and tested for recoverability whenever events or changes in circumstances indicate that the carrying amount may not be recoverable. For instance, a significant change in business climate or a loss of a significant customer, among other things, may trigger the need for impairment testing of intangible assets. An impairment loss is recognized if the carrying amount of an intangible asset is not recoverable and its carrying amount exceeds its fair value.

As a result of the currently challenged energy market, including the significant decline in commodity prices during 2020 and the volatility in commodity production volumes, the effect of which has been exacerbated by the COVID-19 pandemic, Quanta assessed the expected negative impacts related to its intangible assets, particularly intangible assets associated with reporting units within the Underground Utility and Infrastructure Solutions Division. Quanta concluded that such impacts are not likely to result in intangible asset impairments at this time. As a result, no intangible asset impairment was recognized during the year ended December 31, 2020. However, the potential impact of the energy market challenges and of the COVID-19 pandemic is uncertain and depends on numerous factors, and therefore the negative impact on certain of Quanta's reporting units and related intangible assets could increase in future periods. Quanta will continue to monitor the impact of these events and should any of the reporting units suffer additional declines in actual or forecasted financial results, the risk of intangible asset impairment would increase.

#### Leases

Lease liabilities are recognized as the present value of the future minimum lease payments over the lease term as of the commencement date. Lease assets are recognized as the present value of future minimum lease payments over the lease term as of the commencement date, plus any initial direct costs incurred and lease payments made, less any lease incentives received.

Quanta determines if an arrangement contains a lease at inception. If an arrangement is considered a lease, Quanta determines at the commencement date whether the lease is an operating or finance lease. Finance leases are leases that meet any of the following criteria: the lease transfers ownership of the underlying asset at the end of the lease term; the lesse is reasonably certain to exercise an option to purchase the underlying asset; the lease term is for the major part of the remaining economic life of the underlying asset (except when the commencement date falls at or near the end of such economic life); the present value of the sum of the lease payments and any additional residual value guarantee by the lesse equals or exceeds substantially all of the fair value of the underlying asset; or the underlying asset is of such a specialized nature that it is expected to have no alternative use to the lessor at the end of the lease term. A lease that does not meet any of these criteria is considered an operating lease. After the commencement date, lease cost for an operating lease is recognized over the remaining lease term on a straight-line basis, while lease cost for a finance lease is based on the depreciation of the lease asset and interest on the lease liability.

The terms of Quanta's lease arrangements vary, and certain leases include one or more of the following: renewal option(s), a cancellation option, a residual value guarantee, a purchase option or an escalation clause. An option to extend or terminate a lease is accounted for when assessing a lease term when it is reasonably certain that Quanta will exercise such option. Quanta has made a policy election to classify leases with an initial lease term of 12 months or less as short-term leases, and these leases are not recorded in the accompanying consolidated balance sheets unless the lease contains a purchase option that is reasonably certain to be exercised. Lease cost related to short-term leases is recognized on a straight-line basis over the lease term.

Determinations with respect to lease term (including any extension thereof), discount rate, variable lease cost and future minimum lease payments require the use of judgment based on the facts and circumstances related to each lease. Quanta considers various factors, including economic incentives and penalties and business need, to determine the likelihood that a renewal option will be exercised. Unless a renewal option is reasonably certain to be exercised, which is typically at Quanta's sole discretion, the initial non-cancelable lease term is used. Quanta generally uses its incremental borrowing rates to determine the present value of future minimum lease payments.

Certain real estate and equipment arrangements contain both lease and non-lease components (e.g., maintenance services). Quanta does not separate lease components from their associated non-lease components for such arrangements and accounts for both lease and non-lease components under the lease accounting guidance.

#### Investments in Affiliates and Other Entities

In the normal course of business, Quanta enters into various types of investment arrangements, each having unique terms and conditions. These investments may include equity interests held by Quanta in business entities, including general or limited

partnerships, contractual joint ventures, or other forms of equity or profit participation. These investments may also include Quanta's participation in different financing structures, such as the extension of loans to project-specific entities, the acquisition of convertible notes issued by project specific entities, or other strategic financing arrangements. Quanta also enters into strategic partnerships with customers and infrastructure investors to provide fully integrated infrastructure solutions on certain projects, including planning and feasibility analyses, engineering, design, procurement, construction and project operation and maintenance. These projects include public-private partnerships and concessions, along with private infrastructure projects such as build, own, operate (and in some cases transfer) and build-to-suit arrangements.

Quanta determines whether investments involve a variable interest entity (VIE) based on the characteristics of the subject entity. If the entity is determined to be a VIE, then management determines if Quanta is the primary beneficiary of the entity and whether or not consolidation of the VIE is required. The primary beneficiary consolidating the VIE must normally have both (i) the power to direct the activities that most significantly affect the VIE's economic performance and (ii) the obligation to absorb significant losses of, or the right to receive significant benefits from, the VIE. When Quanta is deemed to be the primary beneficiary, the VIE is consolidated and the other party's equity interest in the VIE is accounted for as a non-controlling interest. In cases where Quanta determines that it has an undivided interest in the assets, liabilities, revenues and profits of an unincorporated VIE (e.g., a general partnership interest), such amounts are consolidated on a basis proportional to Quanta's ownership interest in the unincorporated entity.

Investments in entities of which Quanta is not the primary beneficiary, but over which Quanta has the ability to exercise significant influence, are accounted for using the equity method of accounting. Equity method investments are carried at original cost adjusted for Quanta's proportionate share of the investees' income, losses and distributions and are included in "Other assets, net" in the accompanying consolidated balance sheets. Quanta's share of net income or losses of unconsolidated equity method investments is included within operating income in the accompanying consolidated statements of operations when the investee is operationally integral to the operations of Quanta and is reported as "Equity in earnings (losses) of integral unconsolidated affiliates." Quanta's share of net income or losses of unconsolidated equity method investments that are not operationally integral to the operations of Quanta are included in "Other income (expense), net" below operating income in the accompanying consolidated affiliates." Quanta's share of net income or losses of unconsolidated equity method investments that are not operationally integral to the operations of Quanta are included in "Other income (expense), net" below operating income in the accompanying consolidated statements of operations. Equity method investments are reviewed for impairment by assessing whether there has been a decline in the fair value of the investment below the carrying amount and whether any such decline is other-than-temporary. In making this determining whether a loss in value should be recognized. During the year ended December 31, 2020, Quanta recognized impairment losses of \$8.7 million related to certain non-integral equity method investments primarily due to the decline in commodity prices and production volumes during 2020. These impairment losses are included in "Other income (expense), net" in the accompanying consolidated statements of operations 12, 2020.

Investments in entities of which Quanta is not the primary beneficiary, and over which Quanta does not have the ability to exercise significant influence, are accounted for using the cost method of accounting. These investments are required to be measured at fair value, with changes in fair value recognized in net income, unless the investments do not have readily determinable fair values, in which case the investments are measured at cost minus impairment, if any, plus or minus observable price changes in orderly transactions for an identical or similar investment in the same company. Earnings on investments accounted for using the cost method of accounting are recognized as dividends are declared. These earnings and any impairments of cost method investments are reported in "Other income (expense), net" in the accompanying consolidated statements of operations.

As part of Quanta's investment strategy, Quanta formed a partnership in 2017 with select investors to invest in certain specified infrastructure projects, and wholly-owned subsidiaries of Quanta serve as the general partner of this partnership and as a separately operated registered investment adviser that manages the invested capital. As of December 31, 2020, Quanta's investment balance related to this partnership was \$21.4 million. In October 2019, due to certain management changes at the registered investment adviser, the partnership entered into a period during which the investors and Quanta evaluated the partnership, and at the end of such period in April 2020, the investment period for any future investments ended.

Quanta had a minority ownership interest in a limited partnership that was selected during 2014 to build, own and operate a new500-kilometer electric transmission line and two 500 kV substations in Alberta, Canada and accounted for this interest as an equity-method investment. The limited partnership contracted with a Quanta subsidiary to perform the engineering, procurement and construction (EPC) services for the project, and the Quanta subsidiary recognized revenue and related cost of services as performance progressed on the project. However, due to Quanta's ownership interest, a proportional amount of the EPC profit was deferred until the electric transmission line and related substations were constructed and ownership of the assets was deemed to be transferred to the third-party customer, which occurred in the three months ended March 31, 2019. The deferral of earnings and recognition of such earnings deferral were recorded as components of equity in earnings (losses) of non-integral unconsolidated affiliates, which is included in "Other income (expense), net" in the accompanying consolidated statements of operations. During the three months ended March 31, 2019, deferred earnings of \$60.3 million were recognized,

the majority of which was attributable to profit earned and deferred in the years ended December 31, 2018 and 2017. During the three months ended December 31, 2019, Quanta sold its minority ownership interest in the limited partnership and recognized a gain of \$13.0 million related to the sale. The gain was recorded in equity in earnings (losses) of unconsolidated affiliates, which is included in "Other income (expense), net" in the accompanying consolidated statements of operations.

Quanta owns a 30% interest in a water and gas pipeline infrastructure contractor located in Australia, which includes. preferential liquidation rights. This investment is accounted for using the cost method of accounting and had an investment balance of \$12.7 million as of December 31, 2020. Through October 2020, Quanta had, but did not exercise, an option to acquire the remaining 70% interest of the company at an agreed price based on a multiple of the company's earnings during a designated performance period that ended April 30, 2020. Based on this option price, Quanta determined that its investment was impaired and recorded an impairment charge of \$9.3 million during the three months ended June 30, 2020. Such impairment is included in "Other income (expense), net" in the accompanying consolidated statements of operations.

As a result of the currently challenged energy market, including the significant decline in commodity prices during 2020 and the volatility in commodity production volumes, the effect of which has been exacerbated by the COVID-19 pandemic, Quanta assessed the expected negative impacts related to certain of its investments, particularly investments dependent on the energy market. This assessment contributed in part to management's decision to record the impairments related to certain non-integral equity method investments and the water and gas pipeline infrastructure contractor in Australia described above. Additionally, the potential impact of the energy market challenges and the COVID-19 pandemic remains uncertain and may change based on numerous factors, which could further negatively impact these and other of Quanta's investments. Quanta will continue to monitor the potential impacts of these events, and should any investments suffer additional declines in actual or forecasted financial results, additional impairments may be required. See Notes 11 and 14 for additional information related to investments.

## Puerto Rico Joint Venture

During the three months ended June 30, 2020, a joint venture in which Quanta owns a50% interest, LUMA Energy, LLC (LUMA), was selected for a 15-year operation and maintenance agreement to operate, maintain and modernize the approximately 18,000-mile electric transmission and distribution system in Puerto Rico. The15-year operation and maintenance period is scheduled to begin following an approximately one-year transition period that is expected to end in mid-2021. During the transition period, LUMA will complete numerous steps necessary to transition operation and maintenance from the current operator and receives a fixed transition services fee, payable in monthly installments, and is reimbursed for costs and expenses. During the operation and maintenance period, LUMA will continue to be reimbursed for costs and expenses and will receive a fixed annual management fee, with the opportunity to receive additional annual performance-based incentive fees. LUMA will not assume ownership of any electric transmission and distribution system assets and will not be responsible for operation of the power generation assets. Quanta's ownership interest and participation in LUMA is accounted for as an equity method investment due to Quanta's equal ownership and management of LUMA with its joint venture partner. LUMA is operationally integral to the operations of Quanta, and therefore Quanta's share of LUMA's net income or losses is reported within operating income in "Equity in earnings (losses) of integral unconsolidated affiliates." As of December 31, 2020, Quanta's investment balance related to LUMA was \$10.9 million, and Quanta had receivables from LUMA and its other integral unconsolidated affiliates of \$14.8 million.

# Income Taxes

Quanta follows the liability method of accounting for income taxes. Under this method, deferred tax assets and liabilities are recorded based on future tax consequences of temporary differences between the financial reporting and tax bases of assets and liabilities and are measured using the enacted tax rates and laws that are expected to be in effect when the underlying assets or liabilities are recovered or settled.

Quanta regularly evaluates valuation allowances established for deferred tax assets for which future realization is uncertain, including in connection with changes in tax laws. The estimation of required valuation allowances includes estimates of future taxable income. The ultimate realization of deferred tax assets is dependent upon the generation of future taxable income during the periods in which those temporary differences become deductible. Quanta considers projected future taxable income and tax planning strategies in making this assessment. If actual future taxable income differs from these estimates, Quanta may not realize deferred tax assets to the extent estimated.

Quanta records reserves for income taxes related to certain tax positions when management considers it more likely than not that additional taxes may be due in excess of amounts reflected on income tax returns filed. When recording these reserves, Quanta assumes that taxing authorities have full knowledge of the position and all relevant facts. Quanta continually reviews exposure to additional tax obligations, and as further information is known or events occur, changes in tax reserves may be recorded. To the extent interest and penalties may be assessed by taxing authorities on any underpayment of income tax, such amounts have been accrued and included in the provision for income taxes.

As of December 31, 2020, the total amount of unrecognized tax benefits relating to uncertain tax positions was \$3.2 million, a decrease of \$7.7 million from December 31, 2019. This decrease resulted from changes in prior year positions and settlements of \$3.3 million primarily associated with the close of certain U.S. and non-U.S. tax audits and \$8.7 million due to the expiration of U.S. federal and state statutes of limitations, partially offset by a \$4.4 million increase in reserves for uncertain tax positions expected to be taken in 2020. Quanta and certain subsidiaries remain under examination by various U.S. state and foreign tax authorities for multiple periods. Quanta believes it is reasonably possible that within the next 12 months unrecognized tax benefits may decrease by up to \$11.9 million as a result of settlement of these examinations or as a result of the expiration of certain statute of limitations periods.

U.S. federal and state and foreign income tax laws and regulations are voluminous and often ambiguous. As such, Quanta is required to make many subjective assumptions and judgments regarding its tax positions that could materially affect amounts recognized in future consolidated balance sheets, statements of operations and statements of comprehensive income. For example, the Tax Cuts and Jobs Act of 2017 (the Tax Act) significantly revised the U.S. corporate tax regime which, among other things, resulted in a reduction of Quanta's current and estimated future effective tax rate and a remeasurement of its deferred tax assets and liabilities. For additional information on the Tax Act, refer to Note 10.

#### **Earnings** Per Share

Basic and diluted earnings per share attributable to common stock are computed using the weighted average number of shares of common stock outstanding during the applicable period. Exchangeable shares that were issued pursuant to certain of Quanta's historical acquisitions (as further discussed in Note 11), which were exchangeable on a one-for-one basis with shares of Quanta common stock, have been included in the calculation of weighted average shares outstanding for basic and diluted earnings per share attributable to common stock for the portion of the periods that they were outstanding. Additionally, unvested stock-based awards that contain non-forfeitable rights to dividends or dividend equivalents (participating securities) have been included in the calculation of basic and diluted earnings per share attributable to common stock were outstanding. Diluted earnings per share attributable to common stock is computed using the weighted average number of shares of shares of shares of shares of shares of the period adjusted for all potentially dilutive common stock equivalents, except in cases where the effect of the common stock equivalents would be antidilutive.

#### Insurance

Quanta is insured for, among other things, employer's liability, workers' compensation, auto liability, aviation and general liability claims. Deductibles for the employer's liability and workers' compensation programs are \$5.0 million per occurrence, and deductibles for the auto liability and general liability programs are \$5.0 million per occurrence. Quanta manages and maintains a portion of its casualty risk through its wholly-owned captive insurance company, which insures all claims up to the amount of the applicable deductible of its third-party insurance programs. In connection with Quanta's casualty insurance programs, Quanta is required to issue letters of credit to secure its obligations. Quanta also has employee health care benefit plans for most employees not subject to collective bargaining agreements, of which the primary plan is subject to a deductible of \$0.8 million per claimant per year.

Losses under all of these insurance programs are accrued based upon Quanta's estimate of the ultimate liability for claims reported and an estimate of claims incurred but not reported, with assistance from third-party actuaries. These insurance liabilities are difficult to assess and estimate due to unknown factors, including the severity of an injury, the extent of damage, the determination of Quanta's liability in proportion to other parties and the number of incidents not reported. The accruals are based upon known facts and historical trends, and management believes such accruals are adequate.

# Collective Bargaining Agreements and Multiemployer Pension Plans

Certain of Quanta's operating units are parties to collective bargaining agreements with unions that represent certain of their employees. The collective bargaining agreements expire at various times and have typically been renegotiated and renewed on terms similar to those in the expiring agreements. The agreements require the operating units to pay specified wages, provide certain benefits to union employees and contribute certain amounts to multiemployer pension plans and employee benefit trusts pursuant to specified rates. Quanta's multiemployer pension plan contribution rates generally are made to the plans on a "pay-as-you-go" basis based on its union employee payrolls. The location and number of union employees that Quanta employs at any given time and the plans in which they may participate vary depending on Quanta's need for union resources in connection with its ongoing projects. Therefore, Quanta is unable to accurately predict its union employee payroll and the resulting multiemployer pension plan contribution obligations for future periods.

# Stock-Based Compensation

Quanta recognizes compensation expense for restricted stock units (RSUs) and performance stock units (PSUs) to be settled in common stock based on the fair value of the awards, net of estimated forfeitures. The fair value of RSU awards is determined based on the number of units granted and the closing price of Quanta's common stock on the date of grant. The

grant date fair value of the PSUs is determined as follows: (i) for the portion of the awards based on company performance metrics, by multiplying the number of units granted by the closing price of Quanta's common stock on the date of grant and (ii) for the portion of the awards based on relative total shareholder return, by utilizing a Monte Carlo simulation valuation methodology. An estimate of future forfeitures, based on historical data, is also utilized to determine compensation expense for the period, and these forfeiture estimates are subject to change and may impact the value that will ultimately be recognized as compensation expense. The resulting compensation expense for PSU and time-based RSU awards is recognized on a straight-line basis over the requisite service period, which is generally the vesting period, and the resulting compensation expense for performance-based RSU awards is recognized using the graded vesting method over the requisite service period. The compensation expense related to outstanding PSUs can also vary from period to period based on changes in forecasted achievement of established performance goals and the total number of shares of common stock that Quanta anticipates will be issued upon vesting of such PSUs. Payments made by Quanta to satisfy employee tax withholding obligations associated with awards settled in common stock are classified as financing cash flows.

Compensation expense associated with liability-based awards, such as RSUs that are expected to or may settle in cash, is recognized based on a remeasurement of the fair value of the award at the end of each reporting period. Upon settlement, the holders receive for each RSU an amount in cash equal to the fair market value of one share of Quanta common stock on the settlement date, as specified in the applicable award agreement. For additional information on Quanta's RSU and PSU awards, see Note 12.

#### Functional Currency and Translation of Financial Statements

The U.S. dollar is the functional currency for the majority of Quanta's operations, which are primarily located within the United States. The functional currency for Quanta's foreign operations, which are primarily located in Canada and Australia, is typically the currency of the country where the foreign operating unit is located and transacts the majority of its activities, including billings, financing, payroll and other expenditures. When preparing its consolidated financial statements, Quanta translates the financial statements of its foreign operating units from their functional currency into U.S. dollars. Statements of operations, comprehensive income and cash flows are translated at average monthly rates, while balance sheets are translated at month-end exchange rates. The translation of the balance sheet results in translation gains or losses, which are included as a separate component of equity under "Accumulated other comprehensive income (loss)." Gains and losses arising from transactions not denominated in functional currencies are included within "Other income (expense), net" in the accompanying consolidated statements of operations.

#### **Comprehensive Income**

Components of comprehensive income include all changes in equity during a period, except those resulting from changes in Quanta's capital-related accounts. Quanta records other comprehensive income (loss) for foreign currency translation adjustments related to its foreign operations and for other revenues, expenses, gains and losses that are included in comprehensive income but excluded from net income.

#### Litigation Costs and Reserves

Quanta records reserves when the likelihood of incurring a loss is probable and the amount of loss can be reasonably estimated. Costs incurred for litigation are expensed as incurred. See Note 14 for additional information related to legal proceedings and other contingencies.

#### Fair Value Measurements

For disclosure purposes, qualifying assets and liabilities are categorized into three broad levels based on the priority of the inputs used to determine their fair values. The fair value hierarchy gives the highest priority to quoted prices (unadjusted) in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). Certain assumptions and other information as they relate to these qualifying assets and liabilities are described below.

#### Goodwill and Other Intangible Assets

As discussed in the *Goodwill* and *Other Intangible Assets* sections within this Note 2, Quanta has recorded goodwill and identifiable intangible assets in connection with certain of its historical business acquisitions. Quanta utilizes the fair value premise as the primary basis for its impairment valuation procedures. The *Goodwill* and *Other Intangible Assets* sections provide information regarding valuation methods, including the income approach, market approach and cost approach, and assumptions used to determine the fair value of these assets based on the appropriateness of each method in relation to the type of asset being valued. Quanta believes that these valuation methods appropriately represent the methods that would be used by other market participants in determining fair value, and periodically engages the services of an independent valuation firm when a new business is acquired to assist management with the valuation process, including assistance with the selection of appropriate valuation methodologies and the development of market-based valuation assumptions. The level of inputs used for



#### these fair value measurements is the lowest level (Level 3).

#### Investments

Quanta also uses fair value measurements in connection with the valuation of its investments in private company equity interests. These valuations require significant management judgment due to the absence of quoted market prices, the inherent lack of liquidity and their long-term nature. Typically, the initial costs of these investments are considered to represent fair market value, as such amounts are negotiated between willing market participants. On a quarterly basis, Quanta performs an evaluation of its investments to determine if an other-than-temporary decline in the value of each investment has occurred and whether the recorded amount of each investment will be recoverable. If an other-than-temporary decline in the value of an investment occurs, a fair value analysis is performed to determine the degree to which the investment is impaired and a corresponding charge to earnings is recorded during the period. These types of fair market value assessments are similar to other nonrecurring fair value measures used by Quanta, which include the use of significant judgments and available relevant market data. Such market data may include observations of the valuation of comparable companies, risk-adjusted discount rates and an evaluation of the expected performance of the underlying portfolio asset, including historical and projected levels of profitability or cash flows. In addition, a variety of additional factors may be reviewed by management, including, but not limited to, contemporaneous financing and sales transactions with third parties, changes in market outlook and the third-party financing environment. The level of inputs used for these fair value measurements is the lowest level (Level 3).

#### Financial Instruments

The carrying amounts of cash equivalents, accounts receivable, contract assets, accounts payable and accrued expenses and contract liabilities approximate fair value due to the short-term nature of these instruments. All of Quanta's cash equivalents were categorized as Level 1 assets at December 31, 2020 and 2019, as all values were based on unadjusted quoted prices for identical assets in an active market that Quanta has the ability to access.

#### Contingent Consideration Liabilities

As of December 31, 2020 and 2019, financial instruments required to be measured at fair value on a recurring basis consisted primarily of Quanta's liabilities related to contingent consideration associated with certain acquisitions, payable in the event certain performance objectives are achieved by the acquired businesses during designated post-acquisition periods. The liabilities recorded represent the estimated fair values of future amounts payable to the former owners of the acquired businesses and are estimated by management based on entity-specific assumptions that are evaluated on an ongoing basis.

Quanta settled certain contingent consideration liabilities with \$76.0 million of cash payments and the issuance of 4,277 shares of Quanta common stock during the year ended December 31, 2020. Aggregate fair values of these outstanding contingent consideration liabilities and their classification in the accompanying consolidated balance sheets were as follows (in thousands):

	Decer	nber 31, 2020	December 31, 2019	
Accounts payable and accrued expenses	\$	3,466	\$	77,618
Insurance and other non-current liabilities		7,503	2	6,542
Total contingent consideration liabilities	\$	10,969	\$	84,160

The majority of Quanta's outstanding contingent consideration liabilities are subject to a maximum payment amounts, which totaled \$13.9 million as of December 31, 2020.

The fair values of these liabilities were primarily determined using a Monte Carlo simulation valuation methodology based on probability-weighted performance projections and other inputs, including a discount rate and an expected volatility factor for each acquisition. Accordingly, the level of inputs used for these fair value measurements is the lowest level (Level 3). Significant changes in any of these assumptions could result in a significantly higher or lower potential liability.

Quanta's aggregate contingent consideration liabilities can change due to additional business acquisitions, settlement of outstanding liabilities, changes in the fair value of amounts owed based on performance in post-acquisition periods and accretion in present value. These changes are reflected in "Change in fair value of contingent consideration liabilities" in the accompanying consolidated statements of operations.

# Long-term Debt

The carrying amount of variable rate debt, which includes borrowings under Quanta's senior credit facility, approximates fair value. The fair value of Quanta's 2.900% Senior Notes due October 1, 2030 was \$1.08 billion at December 31, 2020. The fair value of the senior notes is based on the quoted market prices for the same issue and are categorized as Level 1 liabilities. See Note 7 for additional information regarding Quanta's senior credit facility and the senior notes.

# 3. NEW ACCOUNTING PRONOUNCEMENTS:

#### Adoption of New Accounting Pronouncements

In February 2016, the Financial Accounting Standards Board (FASB) issued an update that requires the recognition of operating lease right-of-use assets and corresponding lease liabilities on an entity's balance sheet. Effective January 1, 2019, Quanta adopted the new lease accounting standard utilizing the transition method that allowed the recognition of a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption, if applicable. Quanta's financial results for reporting periods beginning on or after January 1, 2019 are presented under the new standard, while financial results for prior periods continue to be reported in accordance with the prior standard and Quanta's historical accounting policy. The adoption of the new standard resulted in the recording of operating lease right-of-use assets and operating lease liabilities of \$301.1 million as of January 1, 2019. Although the adoption of the new standard has had a material impact on Quanta's consolidated balance sheet, there has not been a material impact on its consolidated statements of operations, comprehensive income, cash flows or equity. Additionally, the adoption of this standard did not have a material impact on Quanta's debt covenant compliance under its senior credit facility.

Quanta elected certain practical expedients that, among other things, permit the identification and classification of leases in accordance with the previous guidance. Additionally, certain of Quanta's real estate and equipment arrangements contain both lease and non-lease components (e.g., maintenance services). Quanta elected the practical expedient that allows an entity to not separate lease components from their associated non-lease components for such arrangements and accounted for both lease and non-lease components for such arrangements and accounted for both lease and non-lease components under the new standard. Quanta also made an accounting policy election allowed under the new standard whereby leases with terms of twelve months or less are not recorded on the balance sheet unless they contain a purchase option that is reasonably certain to be exercised. The new lease standard requires disclosures that are designed to enable users of financial statements to assess the amount, timing, and uncertainty of cash flows arising from leases, which are included in Notes 2, 9 and 16. Quanta implemented new internal controls related to the preparation of financial information necessary for adoption of the new standard.

In June 2016, the FASB issued an update for measuring credit losses on most financial assets and certain other instruments that are not measured at fair value through net income. The update amended the impairment model to utilize an expected credit loss methodology in place of the incurred loss methodology for financial instruments, including accounts receivable and contract assets, and off-balance sheet credit exposures. The amendment requires entities to consider a broader range of information to estimate expected credit losses, which often results in earlier recognition of losses. The update also requires disclosure of information regarding how a company developed its allowance, including changes in the factors that influenced management's estimate of expected credit losses and the reasons for those changes.

Quanta adopted the new accounting standard for measuring credit losses effective January 1, 2020 utilizing the transition method that allows recognition of a cumulative effect adjustment to the opening balance of retained earnings in the period of adoption. Quanta's financial results for reporting periods beginning on or after January 1, 2020 are presented under the new standard, while financial results for prior periods continue to be reported in accordance with the prior standard and Quanta's historical accounting policy. The net cumulative effect due to the adoption of the new standard was a \$3.8 million reduction to retained earnings as of January 1, 2020, which represented a \$5.1 million increase to allowance for credit losses, net of \$1.2 million in deferred income taxes. The adjustment was based on an estimate of expected lifetime credit losses for financial instruments, primarily accounts receivable and contract assets. Although the adoption of the new standard did not have a material impact on Quanta's portfolio of financial assets or management's expectations of future economic conditions that affect the collectability of Quanta's financial assets. Management continues to periodically assess these factors, including any potential effects from the COVID-19 pandemic, and incorporates any changes in its estimate of credit losses.

In August 2018, the FASB issued an update that amends the disclosure requirements related to fair value measurements. Pursuant to this update, certain disclosure requirements have been removed, such as the valuation processes for Level 3 fair value measurements, and other disclosure requirements have been modified or added, including a new requirement to disclose the range and weighted average (or a more reasonable and rational method to reflect the distribution) of significant unobservable inputs used to develop Level 3 fair value measurements. Quanta adopted this guidance effective January 1, 2020, and it did not have a material impact on its consolidated financial statements or disclosures.

# Accounting Standards Not Yet Adopted

In December 2019, the FASB issued an update that, among other things, amends the guidance related to accounting for tax law changes when an entity has a year-to-date loss in an interim period and provides guidance on how to evaluate whether a

step-up in tax basis of goodwill relates to a business combination or a separate transaction. This update is effective for interim and annual periods beginning after December 15, 2020, and certain amendments should be applied prospectively, while other amendments should be applied on a modified retrospective basis. Quanta will adopt the guidance effective January 1, 2021, and it is not expected to have a material impact on Quanta's consolidated financial statements at the date of adoption.

In January 2020, the FASB issued an update that clarified the interactions between accounting guidance to account for certain equity securities relating to increasing or decreasing ownership or degree of influence and forward contracts and purchased options. This update is effective for interim and annual periods beginning after December 15, 2020, and it will be applied prospectively. Quanta does not currently have any equity securities that would be impacted by this standard and will adopt the guidance effective January 1, 2021.

# 4. ACQUISITIONS:

The results of the acquired businesses have been included in Quanta's consolidated financial statements beginning on the respective acquisition dates. During the year ended December 31, 2020, Quanta acquired a contractor located in the United States that provides electric power distribution, transmission and substation maintenance and construction, directional boring and emergency restoration services; a professional engineering business located in the United States that provides infrastructure engineering and design services to electric utilities, gas utilities and communications services companies, as well as permitting and utility locating services; a business located in the United States that primarily provides underground conduct services; a business located in the United States that specializes in the deployment of short- and long-haul fiber optic cable and utilities; an industrial services business located in Canada that performs catalyst handling services, including changeover and shutdown maintenance, for customers in the refining and chemical industries; and a business located in the United States that provides heavy, civil, industrial and energy related services and specializes in the construction and maintenance of pipelines and metering stations. The aggregate consideration for these acquisitions was \$351.7 million paid or payable in cash (subject to certain adjustments) and1,334,469 shares of Quanta common stock, which had a fair value of \$57.1 million as of the respective acquisition dates. Additionally, one of the acquisition sincludes the potential payment of up to \$6.9 million of contingent consideration, Quanta recorded \$2.3 million of liabilities as of the acquisition date. The results of the industrial services business and the success that specializes in the construction and maintenance of pipelines and the success that specializes in the construction and maintenance of pipelines and metering stations are greated to the contingent consideration, Quanta recorded \$2.3 million of liabilities

On August 30, 2019, Quanta acquired The Hallen Construction Co., Inc. (Hallen), a underground utility and infrastructure solutions business located in the United States that specializes in gas distribution and transmission services, and to a lesser extent, underground electric distribution and transmission services. During the year ended December 31, 2019, Quanta also acquired two specialty utility foundation and pole-setting contractors serving the southeast United States; an electric power specialty contracting business located in the United States that provides aerial power line and construction support services; a business located in the United States that provides aerial power line and construction support services; a business located in the United States that provides technical training materials to electric utility workers; an electric power company specializing in project management and, to a lesser extent, water and wastewater projects located in the United States; and an electrical infrastructure solutions business located in Canada. The aggregate consideration for these acquisitions was \$395.3 million paid or payable in cash, subject to certain adjustments, and 60,860 shares of Quanta common stock, which had a fair value of \$1.8 million as of the respective acquisition date. A portion of the cash consideration in connection with the Hallen acquisition was placed in an escrow account, which, subject to certain conditions, could be utilized to reimburse Quanta for obligations associated with certain contingent liabilities. The results of Hallen have generally been included in the Underground Utility and Infrastructure Solutions segment and the results of the other acquired businesses have generally been included in the Electric Power Infrastructure Solutions segment.

During the year ended December 31, 2018, Quanta acquired an electrical infrastructure solutions business specializing in substation construction and relay services, a postsecondary educational institution that provides training and programs for workers in the industries Quanta serves and two communications infrastructure services businesses, all of which are located in the United States. The aggregate consideration for these acquisitions was \$108.3 million paid or payable in cash, subject to certain adjustments, and 679,668 shares of Quanta common stock, which had a fair value of \$22.9 million as of the respective acquisition dates. Additionally, the acquisitions of the postsecondary educational institution and one of the communications infrastructure solutions businesses include the potential payment of up to \$18.0 million of contingent consideration, payable if the acquired businesses achieve certain performance objectives over five- and three-year post-acquisition periods. Based on the estimated fair value of the contingent consideration, Quanta recorded \$16.5 million of liabilities as of the respective acquisition

dates. The results of the acquired businesses have generally been included within the Electric Power Infrastructure Solutions segment.

The following table summarizes the aggregate consideration paid or payable as of December 31, 2020 for the acquisitions completed in 2020 and 2019 and presents the allocation of these amounts to net tangible and identifiable intangible assets based on their estimated fair values as of the respective acquisition dates, inclusive of any purchase price adjustments. These allocations require significant use of estimates and are based on information that was available to management at the time these consolidated financial statements were prepared. Quanta uses a variety of information to estimate fair values, including quoted market prices, carrying amounts and valuation techniques such as discounted cash flows. When deemed appropriate, third-party appraisal firms are engaged to assist in fair value determination of fixed assets, intangible assets and certain other assets and liabilities.

Quanta is finalizing its fair value assessments for the acquired assets and assumed liabilities related to businesses acquired during 2020, and further adjustments to the purchase price allocations may occur. As of December 31, 2020, the estimated fair values of the net assets acquired were preliminary, with possible updates primarily related to tax estimates and inventory. Consideration amounts are also subject to the finalization of closing working capital adjustments and the completion of conditions precedent in order to close on agreements for the purchase real property related to certain of the businesses acquired in 2020. The following table summarizes the fair value of total consideration transferred or estimated to be transferred and the fair value of assets acquired and liabilities assumed (in thousands).

	202	)	2019
Consideration:			
Cash paid or payable	\$	351,671 \$	395,258
Value of Quanta common stock issued		57,119	1,791
Contingent consideration		2,250	_
Fair value of total consideration transferred or estimated to be transferred	\$	411,040 \$	397,049
Accounts receivable	\$	74,848 \$	112,142
Contract assets		8,919	11,869
Other current assets		51,836	14,290
Property and equipment		133,065	60,133
Other assets		14	149
Identifiable intangible assets		96,826	192,786
Contract liabilities		(10,324)	(11,856)
Other current liabilities		(27,156)	(73,698)
Deferred tax liabilities, net		(3,185)	(12,414)
Other long-term liabilities		_	(5,345)
Total identifiable net assets		324,843	288,056
Goodwill		86,197	112,132
Fair value of net assets acquired		411,040	400,188
Bargain purchase gain		_	(3,139)
Fair value of total consideration transferred or estimated to be transferred	\$	411,040 \$	397,049

Goodwill represents the amount by which the purchase price for an acquired business exceeds the net fair value of the assets acquired and liabilities assumed, and a bargain purchase gain results when the amount of the net fair value of the assets acquired and liabilities assumed exceeds the purchase price for an acquired business. The acquisition of the electrical infrastructure solutions business in Canada that occurred during the year ended December 31, 2019 included the recognition of a bargain purchase gain of \$3.1 million, which was recorded in "Other income (expense), net" in the accompanying consolidated statements of operations.

The acquisitions completed in 2020, 2019 and 2018 strategically expanded Quanta's domestic and international underground utility and infrastructure solutions and domestic and international electric power infrastructure solutions and communications service offerings, which Quanta believes contributes to the recognition of the goodwill. Approximately \$75.6 million, \$82.1 million, and \$21.6 million of goodwill is expected to be deductible for income tax purposes related to acquisitions completed in 2020, 2019 and 2018.

The following table summarizes the estimated fair values of identifiable intangible assets for the acquisitions completed in 2020 as of the acquisition dates and the related weighted average amortization periods by type (in thousands, except for weighted average amortization periods, which are in years).

	Estimated air Value	Weighted Average Amortization Period in Years
Customer relationships	\$ 81,154	6.1
Backlog	4,022	1.4
Trade names	7,654	14.4
Non-compete agreements	3,996	5.0
Total intangible assets subject to amortization	\$ 96,826	6.5

The following unaudited supplemental pro forma results of operations for Quanta, which incorporate the acquisitions completed in 2020 and 2019, have been provided for illustrative purposes only and do not purport to be indicative of the actual results that would have been achieved by the combined companies for the periods presented or that may be achieved by the combined companies in the future. Future results may vary significantly from the results reflected in the following pro forma financial information because of future events and transactions, as well as other factors (in thousands, except per share amounts).

	Year Ended December 31,					
	 2020	_	2019		2018	
Revenues	\$ 11,400,807	\$	12,844,508	\$	11,894,866	
Gross profit	\$ 1,708,844	\$	1,761,317	\$	1,635,777	
Selling, general and administrative expenses	\$ (998,283)	\$	(1,027,254)	\$	(913,392)	
Amortization of intangible assets	\$ (86,721)	\$	(95,185)	\$	(79,454)	
Net income	\$ 459,890	\$	434,593	\$	332,973	
Net income attributable to common stock	\$ 453,527	\$	429,822	\$	330,312	
Earnings per share:						
Basic	\$ 3.19	\$	2.92	\$	2.16	
Diluted	\$ 3.11	\$	2.89	\$	2.14	

The pro forma combined results of operations were prepared by adjusting the historical results of Quanta to include the historical results of the acquisitions completed in 2020 as if they occurred January 1, 2019, the historical results of the acquisitions completed in 2019 as if they occurred January 1, 2018 and the historical results of the acquisitions completed in 2019 as if they occurred January 1, 2017. These pro forma combined historical results were adjusted for the following: a reduction of interest expense as a result of the repayment of outstanding indebtedness of the acquired businesses; an increase in interest expense as a result of the cash consideration paid; an increase in amortization expense due to the incremental intangible assets recorded; changes in depreciation expense to adjust acquired property and equipment to the acquired businesses; presentation to Quanta's accounting policies; an increase in the number of outstanding shares of Quanta common stock; and reclassifications to conform the acquired businesses' presentation to Quanta's accounting policies. The pro forma combined results of operations do not include any adjustments to eliminate the impact of acquisition-related costs or any cost savings or other synergies that resulted or may result from the acquisitions. As noted above, the pro forma results of operations do not purport to be indicative of the actual results that would have been achieved by the combined company for the periods presented or that may be achieved by the combined company in the future.

Revenues of \$133.5 million and a loss before income taxes of \$1.3 million, which included \$17.5 million of acquisition-related costs, are included in Quanta's consolidated results of operations for the year ended December 31, 2020 related to the acquisitions completed in 2020. Revenues of \$223.3 million and income before income taxes of \$7.5 million, which included \$22.1 million of acquisition-related costs, are included in Quanta's consolidated results of operations for the year ended December 31, 2019 related to the acquisitions completed in 2019. Revenues of \$7.1 million and a loss before income taxes of \$8.9 million, which included \$11.0 million of acquisition-related costs, are included in Quanta's consolidated results of operations completed in 2019. Revenues of \$7.1 million and a loss before income taxes of \$8.9 million, which included \$11.0 million of acquisition-related costs, are included in Quanta's consolidated results of operations completed in 2018.

# 5. GOODWILL AND OTHER INTANGIBLE ASSETS:

As described in Note 2, Quanta's operating units are organized into one of Quanta's two internal divisions, and accordingly, the goodwill associated with the operating units has been aggregated on a divisional basis in the table below. These divisions are closely aligned with Quanta's reportable segments, and operating units are assigned to a division based on the predominant type of work performed. From time to time, an operating unit may be reorganized between divisions if warranted due to changes in its predominant business.

A summary of changes in Quanta's goodwill is as follows (in thousands):

	Electric Power Infrastructure Solutions Division	Undergrou and Infra Solut Divis	structure tions	Total
Balance at December 31, 2017:				
Goodwill	\$ 1,272,527	\$	693,905 \$	1,966,432
Accumulated impairment			(97,832)	(97,832)
	1,272,527		596,073	1,868,600
Goodwill related to acquisitions completed in 2018	56,337		_	56,337
Purchase price allocation adjustments	51		_	51
Foreign currency translation adjustments	(15,837	)	(9,272)	(25,109)
Balance at December 31, 2018:				
Goodwill	1,313,078		683,284	1,996,362
Accumulated impairment			(96,483)	(96,483)
	1,313,078		586,801	1,899,879
Goodwill related to acquisitions completed in 2019	43,183		67,200	110,383
Purchase price allocation adjustments	1,503		—	1,503
Foreign currency translation adjustments	7,399	l.	3,511	10,910
Balance at December 31, 2019:				
Goodwill	1,365,16	3	753,938	2,119,101
Accumulated impairment			(96,426)	(96,426)
	1,365,16	3	657,512	2,022,675
Goodwill related to acquisitions completed in 2020	79,889		6,308	86,197
Purchase price allocation adjustments	1,730		19	1,749
Foreign currency translation adjustments	2,992		7,401	10,393
Balance at December 31, 2020:				
Goodwill	1,449,774		768,868	2,218,642
Accumulated impairment			(97,628)	(97,628)
	\$ 1,449,774	\$	671,240 \$	2,121,014

Quanta's intangible assets and the remaining weighted average amortization periods related to its intangible assets subject to amortization were as follows (in thousands except for weighted average amortization periods, which are in years):

	As of December 31, 2020					As of December 31, 2019				
	Remaining Weighted Average Amortization Period in Years	Intangible Assets	Accumulated Amortization	Intangible Assets, Net	Intangible Assets	Accumulated Amortization	Intangible Assets, Net			
Customer relationships	5.6	\$ 616,875	\$ (277,647)	\$ 339,228	\$ 532,808	\$ (213,915)	\$ 318,893			
Backlog	1.3	149,769	(145,476)	4,293	144,704	(141,580)	3,124			
Trade names	13.8	101,533	(32,471)	69,062	93,396	(26,145)	67,251			
Non-compete agreements	3.1	47,333	(36,973)	10,360	43,281	(32,868)	10,413			
Patented rights and developed technology	3.5	22,486	(21,894)	592	22,719	(20,682)	2,037			
Curriculum	7.4	12,233	(3,113)	9,120	11,712	(2,696)	9,016			
Total intangible assets subject to amortization	6.8	950,229	(517,574)	432,655	848,620	(437,886)	410,734			
Engineering license		3,000	_	3,000	3,000	_	3,000			
Total intangible assets		\$ 953,229	\$ (517,574)	\$ 435,655	\$ 851,620	\$ (437,886)	\$ 413,734			

Amortization expense for intangible assets was \$76.7 million, \$62.1 million and \$44.0 million for the years ended December 31, 2020, 2019 and 2018.

The estimated future aggregate amortization expense of intangible assets subject to amortization as of December 31, 2020 is set forth below (in thousands):

# Year Ending December 31:

2021	\$ 84,748
2022	77,119
2023	68,319
2024	55,357
2025	43,805
Thereafter	103,307
Total	\$ 432,655

# 6. PER SHARE INFORMATION:

The amounts used to compute basic and diluted earnings per share attributable to common stock consisted of the following (in thousands):

	Year Ended December 31,					
	2020		2019		2018	
Amounts attributable to common stock:						
Net income attributable to common stock	\$ 445,596	\$	402,044	\$	293,346	
Weighted average shares:						
Weighted average shares outstanding for basic earnings per share attributable to common stock	141,380		145,710		152,963	
Effect of dilutive unvested non-participating stock-based awards	 3,867		1,824		1,263	
Weighted average shares outstanding for diluted earnings per share attributable to common stock	 145,247		147,534		154,226	

Basic and diluted earnings per share attributable to common stock are computed using the weighted average number of shares of common stock outstanding during the applicable period. Exchangeable shares that were issued pursuant to certain of Quanta's historical acquisitions (as further discussed in Note 11), which were exchangeable on a one-for-one basis with shares



of Quanta common stock, have been included in the calculation of weighted average shares outstanding for basic and diluted earnings per share attributable to common stock for the portion of the periods that they were outstanding. Additionally, unvested stock-based awards that contain non-forfeitable rights to dividends or dividend equivalents (participating securities) have been included in the calculation of basic and diluted earnings per share attributable to common stock for the portion of the periods that the awards were outstanding. Weighted average shares outstanding for basic and diluted earnings per share attributable to common stock included 1.6 million, 2.8 million and 2.6 million weighted average participating securities for the years ended December 31, 2020, 2019 and 2018.

For purposes of calculating diluted earnings per share attributable to common stock, there were no adjustments required to derive Quanta's net income attributable to common stock. Diluted earnings per share attributable to common stock is computed using the weighted average number of shares of common stock outstanding during the period adjusted for all potentially dilutive common stock equivalents, except in cases where the effect of the common stock equivalents would be antidilutive.

# 7. DETAIL OF CERTAIN BALANCE SHEET ACCOUNTS:

Property and equipment consisted of the following (in thousands):

	Estimated Useful	Decen	nber 31	,
	Lives in Years	 2020	_	2019
Land	N/A	\$ 69,389	\$	67,560
Buildings and leasehold improvements	5-30	249,106		231,920
Operating equipment and vehicles	1-25	2,297,120		2,068,644
Office equipment, furniture and fixtures and information technology systems	3-10	244,113		228,329
Construction work in progress	N/A	20,900		26,236
Finance lease assets and rental purchase options (see Note 9)	5-20	52,160		14,162
Property and equipment, gross		2,932,788		2,636,851
Less — Accumulated depreciation and amortization		(1,372,132)		(1,250,197)
Property and equipment, net of accumulated depreciation		\$ 1,560,656	\$	1,386,654

Other assets, net consisted of the following (in thousands):

	December 31,		
	 2020	2019	
Receivable related to terminated telecommunications project in Peru	\$ 119,648 \$	\$ 119,648	
Long-term retainage receivable, net	88,234	54,235	
Investments in unconsolidated affiliates	84,367	89,568	
Investments held related to deferred compensation plan	55,855	45,273	
Long-term insurance receivables	35,164	34,785	
Deferred tax assets	17,685	12,545	
Long-term accounts receivable, net	13,367	12,427	
Deferred financing costs related to senior credit facility, net	9,695	6,695	
Other non-current assets	 11,698	18,088	
Other assets, net	\$ 435,713 \$	\$ <u>393,264</u>	

Accounts payable and accrued expenses consisted of the following (in thousands):

	De	December 31,			
	2020		2019		
Accounts payable, trade	\$ 798,02	3 \$	798,718		
Accrued compensation and related expenses	378,00	)2	316,237		
Accrued insurance, current portion	80,92	.6	69,307		
Income and franchise taxes payable	32,3	5	58,353		
Unearned revenues, current portion	53,50	52	33,192		
Sales and use taxes payable	30,58	57	28,721		
Contingent consideration liabilities, current portion	3,40	i6	77,618		
Other accrued expenses	132,9	3	107,413		
Accounts payable and accrued expenses	\$ 1,509,79	4 \$	1,489,559		

# 8. DEBT OBLIGATIONS:

Quanta's long-term debt obligations consisted of the following (in thousands):

	December 31,			
		2020		2019
2.900% Senior Notes due 2030	\$	1,000,000	\$	_
Borrowings under senior credit facility		148,508		1,346,290
Other long-term debt		46,981		13,275
Finance leases		2,228		957
Unamortized discount and debt issuance costs related to senior notes		(12,892)		
Total long-term debt obligations		1,184,825		1,360,522
Less — Current maturities of long-term debt		10,531		68,327
Total long-term debt obligations, net of current maturities	\$	1,174,294	\$	1,292,195

Quanta's current maturities of long-term debt and short-term debt consisted of the following (in thousands):

	December 31,				
	20			2019	
Short-term debt	\$	4,233	\$	6,542	
Current maturities of long-term debt		10,531		68,327	
Current maturities of long-term debt and short-term debt	\$	14,764	\$	74,869	

#### 2.900% Senior Notes Due 2030

On September 22, 2020, Quanta issued \$1.00 billion aggregate principal amount of 2.900% Senior Notes due October 1, 2030 (the senior notes). Quanta received proceeds of \$986.7 million from the offering, net of the original issue discount, underwriting discounts and debt issuance costs, and used such proceeds, together with cash on hand, to voluntarily prepay the \$1.21 billion of term loans then-outstanding under Quanta's credit agreement for its senior credit facility (the credit agreement).

Interest on the senior notes of \$14.5 million is payable semi-annually in arrears on April 1 and October 1 of each year, commencing April 1, 2021. The senior notes are Quanta's senior unsecured obligations and rank equally in right of payment with Quanta's existing and future senior indebtedness and senior in right of payment to all future subordinated indebtedness of Quanta (subject to applicable law). The senior notes are effectively subordinated to all secured indebtedness of Quanta to the extent of the value of the assets securing such indebtedness and are structurally subordinated to all liabilities, including trade payables, of Quanta's subsidiaries.

Quanta may redeem all or a portion of the senior notes at any time prior to July 1, 2030 at a price equal to 100% of the principal amount plus a make-whole premium and accrued and unpaid interest, and at any time on or after July 1, 2030 at a price equal to 100% of the principal amount plus accrued and unpaid interest, in each case as further specified by terms of the senior notes and the indenture and supplemental indenture governing the senior notes (together, the indenture). Additionally, upon the occurrence of a Change of Control Triggering Event (as defined in the indenture), unless Quanta has exercised its right to redeem the senior notes in full by giving irrevocable notice to the trustee, each noteholder will have the right to require Quanta to purchase all or a portion of such holder's senior notes at a purchase price equal to 101% of the principal amount thereof plus any accrued and unpaid interest.

The indenture also contains customary events of default and covenants that, among other things, limit Quanta's ability to incur liens securing indebtedness, to engage in certain sale and leaseback transactions with respect to certain properties and to sell all or substantially all of its assets or merge or consolidate with or into other companies.

# Senior Credit Facility

On September 22, 2020, Quanta entered into an amendment to the credit agreement that, among other things, increased the aggregate revolving commitments from  $\mathfrak{D}$ .14 billion to \$2.51 billion and extended the maturity date for the revolving commitments from October 31, 2022 to September 22, 2025. Pursuant to the amendment, the pledge of capital stock of certain Quanta subsidiaries and the liens on the collateral that secured the obligations under the credit agreement were released, and all of Quanta's subsidiaries that were guarantors of the obligations under the credit agreement were released from their guarantees of such obligations. In addition, the amendment removed the collateral reinstatement provision that would have applied in the event Quanta's corporate credit rating from either Moody's Investors Service, Inc or Standard & Poor's Financial Services LLC were to fall below an investment grade rating. As referenced above, Quanta used the net proceeds from the offering of the senior notes, together with cash on hand, to voluntarily prepay all the term loans then-outstanding under the credit agreement in the aggregate principal amount of \$1.21 billion.

Subject to the conditions specified in the credit agreement, Quanta has the option to increase the capacity of the credit facility, in the form of an increase in the revolving commitments, term loans or a combination thereof, from time to time, upon receipt of additional commitments from new or existing lenders by up to an additional (i) \$400.0 million plus (ii) additional amounts so long as the Incremental Leverage Ratio Requirement (as defined in the credit agreement) is satisfied at the time of such increase. The Incremental Leverage Ratio Requirement requires, among other things, after giving pro forma effect to such increase and the use of proceeds therefrom, compliance with the credit agreement's financial covenants as of the most recent fiscal quarter end for which financial statements were required to be delivered.

Subject to compliance with the financial covenants described below, the entire amount available under the credit facility may be used by Quanta for revolving loans and letters of credit in U.S. dollars and certain alternative currencies, subject to a \$900.0 million sublimit for Financial Letters of Credit (as defined in the credit agreement). Up to \$800.0 million may be used by certain subsidiaries of Quanta for revolving loans and letters of credit, including in certain alternative currencies. Up to \$00.0 million may be used for swing line loans in U.S. dollars, up to \$50.0 million may be used for swing line loans in Canadian dollars and up to \$0.0 million may be used for swing line loans in Australian dollars. Borrowings under the credit agreement are to be used to refinance existing indebtedness and for working capital, capital expenditures, acquisitions and other general corporate purposes.

As of December 31, 2020, Quanta had \$148.5 million of outstanding revolving loans under the senior credit facility. Of the total outstanding borrowings, \$114.7 million were denominated in Canadian dollars and \$33.8 million were denominated in Australian dollars. As of December 31, 2020, Quanta also had \$348.3 million of letters of credit issued under the senior credit facility, of which \$231.0 million were denominated in U.S. dollars and \$117.3 million were denominated in currencies other than the U.S. dollar, primarily Canadian dollars. As of December 31, 2020, Quanta also had \$18.2 million of letters of credit issued by a financial institution that ceased to be a lender under the senior credit facility subsequent to the September 2020 amendment to the credit agreement, which are collateralized by a \$19.1 million letter of credit issued by a lender under the senior credit facility. As of December 31, 2020, subject to the applicable sublimits, the remaining \$2.01 billion of available commitments under the senior credit facility was available for loans or issuing new letters of credit in U.S. dollars and certain alternative currencies.

Borrowings under the senior credit facility and the applicable interest rates were as follows (dollars in thousands):

	Year Ended December 31,							
		2020		2019		2018		
Maximum amount outstanding under the senior credit facility during the period	\$	2,023,326	\$	2,051,714	\$	1,300,401		
Average daily amount outstanding under the senior credit facility	\$	1,091,091	\$	1,553,499	\$	914,012		
Weighted-average interest rate of the senior credit facility		2.1 %		ó 3.8 %		3.6 %		

Revolving loans borrowed in U.S. dollars bear interest, at Quanta's option, at a rate equal to either (i) the Eurocurrency Rate (as defined in the credit agreement) plus 1.125% to 2.000%, as determined based on Quanta's Consolidated Leverage Ratio, or (ii) the Base Rate (as described below) plus0.125% to 1.000%, as determined based on Quanta's Consolidated Leverage Ratio, or (ii) the Base Rate (as described below) plus0.125% to 1.000%, as determined based on Quanta's Consolidated Leverage Ratio. Additionally, standby or commercial letters of credit issued under the credit agreement are subject to a letter of credit fee of 1.125% to 2.000%, based on Quanta's Consolidated Leverage Ratio, and Performance Letters of Credit (as defined in the credit agreement) issued under the credit agreement in support of certain contractual obligations are subject to a letter of credit fee of 0.675% to 1.150%, based on Quanta's Consolidated Leverage Ratio. The Base Rate equals the highest of (i) the Federal Funds Rate (as defined in the credit agreement) plus 0.5%, (ii) the prime rate publicly announced by Bank of America, N.A. and (iii) the Eurocurrency Rate plus 1.00%. Quanta is also subject to a commitment fee of 0.275% to 0.425%, based on its Consolidated Leverage Ratio, on any unused availability under the senior credit facility. Prior to the amendment on September 22, 2020, Quanta was subject to a commitment fee of 0.200%.

Consolidated Leverage Ratio is the ratio of Quanta's Consolidated Funded Indebtedness to Consolidated EBITDA (as those terms are defined in the credit agreement). For purposes of calculating Quanta's Consolidated Leverage Ratio, Consolidated Funded Indebtedness is reduced by available cash and Cash Equivalents (as defined in the credit agreement) in excess of \$25.0 million. Consolidated Interest Coverage Ratio is the ratio of (i) Consolidated EBIT (as defined in the credit agreement) for the four fiscal quarters most recently ended to (ii) Consolidated Interest Expense (as defined in the credit agreement) for such period (excluding all interest expense attributable to capitalized loan costs and the amount of fees paid in connection with the issuance of letters of credit on behalf of Quanta during such period).

The credit agreement contains certain covenants, including (i) a maximum Consolidated Leverage Ratio of 3.5 to 1.0 (except that in connection with certain permitted acquisitions in excess of \$200.0 million, such ratio is 4.0 to 1.0 for the fiscal quarter in which the acquisition is completed and the four subsequent fiscal quarters) and (ii) a minimum Consolidated Interest Coverage Ratio of 3.0 to 1.0. As of December 31, 2020, Quanta was in compliance with all of the financial covenants under the credit agreement.

The credit agreement also limits certain acquisitions, mergers and consolidations, indebtedness, asset sales and prepayments of indebtedness and, subject to certain exceptions, prohibits liens on Quanta's assets. The credit agreement allows cash payments for dividends and stock repurchases subject to compliance with the following requirements (including after giving effect to the dividend or stock repurchase): (i) no default or event of default under the credit agreement; (ii) continued compliance with the financial covenants in the credit agreement; and (iii) at least \$100.0 million of availability under the senior credit facility and/or cash and cash equivalents on hand.

The credit agreement provides for customary events of default and contains cross-default provisions with other debt instruments exceeding \$50.0 million in borrowings or availability. If an Event of Default (as defined in the credit agreement) occurs and is continuing, on the terms and subject to the conditions set forth in the credit agreement, the lenders may declare all amounts outstanding and accrued and unpaid interest immediately due and payable, require that Quanta provide cash collateral for all outstanding letter of credit obligations and terminate the commitments under the credit agreement.

As referenced above, Quanta voluntarily prepaid the aggregate term loans then-outstanding on September 22, 2020. Quanta had borrowed \$600.0 million under the term loan facility in October 2018 and \$687.5 million under the term loan facility in September 2019 and used the majority of such proceeds to repay then-outstanding revolving loans under the credit agreement. Term loans bore interest at rates generally consistent with the revolving loans borrowed in U.S. dollars, except that the additional amount over the Eurocurrency Rate was 1.125% to 1.875%, as determined based on Quanta's Consolidated Leverage Ratio. Quanta made quarterly principal payments of \$7.5 million on the term loan through September 2019 and \$16.1 million on the term loans from December 2019 through June 2020.

# 9. LEASES:

Quanta primarily leases land, buildings, vehicles, construction equipment and office equipment. As of December 31, 2020, the majority of Quanta's leases had remaining lease terms not exceeding 9.8 years. Certain leases include options to extend their terms in increments of up tofive years and/or options to terminate. The components of lease costs in the accompanying consolidated statements of operations are as follows (in thousands):

		Year Ended	Decembe	r 31,
Lease cost	Classification	2020		2019
Finance lease cost:				
Amortization of lease assets	Depreciation <sup>(1)</sup>	\$ 1,234	\$	1,393
Interest on lease liabilities	Interest expense	107		64
Operating lease cost	Cost of services and Selling, general and administrative expenses	116,672		121,767
Short-term and variable lease cost (2)	Cost of services and Selling, general and administrative expenses	656,649		837,244
Total lease cost		\$ 774,662	\$	960,468

Depreciation is included within "Cost of services" and "Selling, general and administrative expenses" in the accompanying consolidated statements of operations.
 Short-term lease cost includes both leases and rentals with initial terms of one year or less. Variable lease cost is insignificant and primarily relates to real estate leases and consists of common area maintenance charges, real estate taxes, insurance and other variable costs.

For the year ended December 31, 2018, rent expense related to operating leases was \$09.7 million; however, this amount did not include rent expense related to certain equipment under month-to-month rental periods, which is included in short-term and variable lease cost for the years ended December 31, 2020 and 2019 in the table above.

Additionally, Quanta has entered into arrangements with certain related parties, typically employees of Quanta who are the former owners of acquired businesses, to lease certain real property and facilities that continue to be utilized by Quanta subsequent to an acquisition. Quanta utilizes third party market valuations to evaluate rental rates for these properties and facilities, and the lease agreements generally have remaining lease terms of up to ten years, subject to renewal options. Related party lease expense was \$14.3 million, \$16.7 million and \$14.0 million for the years ended December 31, 2020, 2019 and 2018.

The components of leases in the accompanying consolidated balance sheet were as follows (in thousands):

		Decem	ber 31,	
Lease type	Classification	 2020	2019	
Assets:				
Operating lease right-of-use assets	Operating lease right-of-use assets	\$ 256,845	\$	284,369
Finance lease assets	Property and equipment, net of accumulated depreciation	2,370		1,043
Total lease assets		\$ 259,215	\$	285,412
Liabilities:				
Current:				
Operating	Current portion of operating lease liabilities	\$ 85,134	\$	92,475
Finance	Current maturities of long-term debt and short-term debt	846		440
Non-current:				
Operating	Operating lease liabilities, net of current portion	178,822		196,521
Finance	Long-term debt, net of current maturities	1,382		517
Total lease liabilities		\$ 266,184	\$	289,953

Certain of Quanta's equipment rental agreements contain purchase options pursuant to which the purchase price is offset by a portion of the rental payments. When rental purchase options are exercised and a substantive benefit is deemed to be

transferred to a third-party lessor, the transaction is deemed to be a financing transaction for accounting purposes. This results in the recognition of an asset equal to the purchase price being recorded in "Property, plant and equipment, net of accumulated depreciation," and the recognition of a corresponding liability in "Current maturities of long-term debt and short-term debt" and "Long-term debt, net of current maturities." As of December 31, 2020 and 2019, the assets recorded, net of accumulated depreciation, totaled \$45.7 million and \$11.8 million.

Future minimum lease payments for operating and finance leases were as follows (in thousands):

		As of December 31, 2020					
	Oper	ating Leases	Finance Leases	Total			
2021	\$	94,166	\$ 920	\$ 95,086			
2022		68,284	690	68,974			
2023		47,872	493	48,365			
2024		29,362	264	29,626			
2025		18,685	_	18,685			
Thereafter		30,311		30,311			
Total future minimum operating and finance lease payments		288,680	2,367	291,047			
Less imputed interest		(24,724)	(139)	(24,863)			
Total lease liabilities	\$	263,956	\$ 2,228	\$ 266,184			

Future minimum lease payments for short-term leases, which are not recorded in the consolidated balance sheets due to Quanta's accounting policy election, were \$3.6 million as of December 31, 2020. Month-to-month rental expense associated primarily with certain equipment rentals is excluded from these amounts because Quanta is unable to accurately predict future rental amounts.

The weighted average remaining lease terms and discount rates were as follows:

	As of December 31, 2020
Weighted average remaining lease term (in years):	
Operating leases	4.28
Finance leases	3.06
Weighted average discount rate:	
Operating leases	4.2 %
Finance leases	4.1 %

Quanta has also guaranteed the residual value under certain of its equipment operating leases, agreeing to pay any difference between this residual value and the fair market value of the underlying asset at the date of lease termination. At December 31, 2020, the maximum guaranteed residual value of this equipment was \$779.1 million. While Quanta believes that no significant payments will be made as a result of these residual value guarantees, there can be no assurance that significant payments will not be required in the future.

As of December 31, 2020, Quanta had additional operating lease obligations of \$3.4 million for leases that had not yet commenced and that are expected to commence in 2021 or 2022 and have lease terms of one to seven years.

#### 10. INCOME TAXES:

U.S. federal and state and foreign income tax laws and regulations are voluminous and often ambiguous. As such, Quanta is required to make many subjective assumptions and judgments regarding its tax positions that could materially affect amounts recognized in its future consolidated balance sheets, statements of operations and statements of comprehensive income. For example, the Tax Act significantly revised the U.S. corporate tax regime, which, among other things, resulted in a reduction of Quanta's effective tax rate and a remeasurement of its deferred tax assets and liabilities. Quanta completed its analysis of the Tax Act, and the adjustments determined during the measurement period were included within "Net income" as an adjustment to "Provision for income taxes" on Quanta's consolidated statements of operations and are described in further detail below.

The Tax Act lowered the U.S. federal corporate income tax rate from 35% to 21% effective January 1, 2018, required companies to pay a one-time transition tax on earnings of certain foreign subsidiaries, limited and eliminated certain tax deductions and created new taxes on certain foreign-sourced earnings. Consequently, for the year ended December 31, 2017,

Quanta recorded one-time net tax benefits that were Quanta's provisional estimate, utilizing the information that was available at the time. During the year ended December 31, 2018, Quanta recorded \$6.3 million of additional benefit related to the remeasurement of U.S. federal deferred tax assets and liabilities, as the estimate of such amount was revised in connection with the preparation and filing of Quanta's 2017 income tax returns, and decreased the estimated benefit associated with entity restructuring and recapitalization transactions by \$1.8 million based on actual 2017 earnings and profit balances. Additionally, as a result of subsequent regulations, Quanta also recorded a valuation allowance of \$43.5 million against foreign tax credits during 2018. As of December 31, 2018, Quanta completed its accounting for the tax effects of the enactment of the Tax Act; however, additional regulations could have a material impact on Quanta's effective tax rate in future periods. Further, to the extent there are settlements of certain foreign unrecognized tax benefits in future periods, changes to the estimates associated with the transition tax may be required.

The Tax Act also imposed a tax on global intangible low-taxed income (GILTI). Quanta analyzed the impacts of GILTI and made an accounting policy election in the fourth quarter of 2018, whereby it determined that such income will be recognized in the period earned and deferred taxes for basis differences that may reverse as GILTI will not be recognized in future years.

The components of income before income taxes were as follows (in thousands):

Year Ended December 31,						
	2020	2019			2018	
\$	632,791	\$	550,676	\$	318,635	
	(61,445)		21,611		139,031	
\$	571,346	\$	572,287	\$	457,666	
	\$ \$	<b>2020</b> \$ 632,791 (61,445)	<b>2020</b> \$ 632,791 \$ (61,445)	2020         2019           \$         632,791         \$         550,676           (61,445)         21,611	2020         2019           \$         632,791         \$         550,676         \$           (61,445)         21,611         21         21	

The components of the provision for income taxes were as follows (in thousands):

	Year Ended December 31,					
	2020	2019		2018		
Current:						
Federal	\$ 134,538	\$ 121,2	14 \$	50,306		
State	45,610	35,3	29	26,170		
Foreign	(745)	16,8	48	23,209		
Total current tax provision	179,403	173,3	91	99,685		
Deferred:						
Federal	(46,251)	7,3	79	62,482		
State	(3,850)	(1,7	76)	(4,152)		
Foreign	(9,915)	(13,5	22)	3,644		
Total deferred tax provision (benefit)	(60,016)	(7,9	19)	61,974		
Total provision for income taxes	\$ 119,387	\$ 165,4	72 \$	161,659		

The actual income tax provision differed from the income tax provision computed by applying the U.S. federal statutory corporate rate to income before provision for income taxes as follows (in thousands):

	Year Ended December 31,					
	 2020		2019		2018	
Provision at the statutory rate	\$ 119,983	\$	120,180	\$	96,110	
Increases (decreases) resulting from —						
State taxes	31,791		23,399		18,504	
Employee per diems, meals and entertainment	10,680		13,817		11,949	
Valuation allowance on deferred tax assets	(31,138)		35,761		48,862	
Foreign taxes	(9,641)		(21,565)		(2,621)	
Stock-based compensation	(3,109)		(1,863)		(1,449)	
Contingency reserves, net	(2,125)		(3,173)		(2,619)	
Taxes on unincorporated joint ventures	(1,093)		(930)		(578)	
Tax Cuts and Jobs Act	_		_		(6,295)	
Entity restructuring and recapitalization efforts			—		(4,424)	
Other	4,039		(154)		4,220	
Total provision for income taxes	\$ 119,387	\$	165,472	\$	161,659	

Deferred income taxes result from temporary differences in the recognition of income and expenses for financial reporting purposes and tax purposes. The tax effects of these temporary differences, representing deferred tax assets and liabilities, result principally from the following (in thousands):

		December 31,			
	2	2020	2019		
Deferred income tax liabilities:					
Property and equipment	\$	(236,256) \$	(208,751)		
Goodwill		(85,467)	(72,244)		
Leased assets		(77,344)	(73,861)		
Customer holdbacks		(30,457)	(11,882)		
Other intangibles		(4,438)	(11,384)		
Other book/tax accounting method differences		_	(1,801)		
Total deferred income tax liabilities		(433,962)	(379,923)		
Deferred income tax assets:					
Net operating loss carryforwards		82,817	78,310		
Lease liabilities		76,826	74,044		
Accruals and reserves		70,335	36,372		
Tax credits		42,202	46,621		
Stock and incentive compensation		36,590	26,045		
Deferred tax benefits on unrecognized tax positions		10,108	16,542		
Other		9,617	3,933		
Subtotal		328,495	281,867		
Valuation allowance		(43,255)	(104,178)		
Total deferred income tax assets		285,240	177,689		
Total net deferred income tax liabilities	\$	(148,722) \$	(202,234)		

Attachment D

The net deferred income tax assets and liabilities were comprised of the following in the accompanying consolidated balance sheets (in thousands):

	December 31,				
	2020	2019			
Deferred income taxes:					
Assets	\$ 17,685	\$	12,545		
Liabilities	\$ (166,407)	(21	14,779)		
Total net deferred income tax liabilities	\$ (148,722)	\$ (20	02,234)		

The valuation allowances for deferred income tax assets at December 31, 2020, 2019 and 2018 were \$3.3 million, \$104.2 million and \$67.6 million. These valuation allowances relate to state and foreign net operating loss carryforwards and foreign tax credits. The net changes in the total valuation allowance for each of the years ended December 31, 2020, 2019 and 2018 were a decrease of \$60.9 million, an increase of \$36.6 million and an increase of \$48.3 million. The valuation allowances were established primarily as a result of uncertainty in Quanta's outlook as to the amount and character of future taxable income in particular tax jurisdictions. Quanta believes it is more likely than not that it will realize the benefit of its deferred tax assets net of existing valuation allowances.

At December 31, 2020, Quanta had state and foreign net operating loss carryforwards, the tax effect of which was \$88.1 million. These carryforwards will expire as follows: 2021, \$0.5 million; 2022, \$0.2 million; 2023, \$3.2 million; 2024, \$1.0 million; 2025, \$7.4 million; and \$75.8 million thereafter. A valuation allowance of \$42.3 million has been recorded against certain foreign and state net operating loss carryforwards.

Quanta generally does not provide for taxes related to undistributed earnings of its foreign subsidiaries because such earnings either would not be taxable when remitted or they are considered to be indefinitely reinvested. Quanta could also be subject to additional foreign withholding taxes if it were to repatriate cash that is indefinitely reinvested outside the United States, but it does not expect such amount to be material.

A reconciliation of unrecognized tax benefit balances is as follows (in thousands):

		December 31,					
	2020		2019		2018		
Balance at beginning of year	\$ 40,8	78 \$	41,110	\$	36,229		
Additions based on tax positions related to the current year	4,3	98	7,708		6,231		
Additions for tax positions of prior years		_	1,200		9,377		
Reductions for tax positions of prior years	(2,4	10)	_		(2,870)		
Reductions for audit settlements	(9	30)	(3,205)				
Reductions resulting from a lapse of the applicable statute of limitations periods	(8,7	17)	(5,935)		(7,857)		
Balance at end of year	\$ 33,2	19 \$	40,878	\$	41,110		

For the year ended December 31, 2020, the \$12.1 million of aggregate reductions were primarily due to the favorable settlement of U.S. and Canadian tax audits and the expiration of U.S. federal and state statutes of limitations. For the year ended December 31, 2019, the \$9.1 million of aggregate reductions were primarily due to the favorable settlement of certain non-U.S. income tax obligations of an acquired business and the expiration of U.S. state income tax statutes of limitations. For the year ended December 31, 2018, the \$7.9 million reduction was primarily due to the expiration of certain federal and state statutes of limitations.

The balances of unrecognized tax benefits, the amount of related interest and penalties and what Quanta believes to be the range of reasonably possible changes in the next 12 months are as follows (in thousands):

	December 31,				
	2020		2019		2018
Unrecognized tax benefits	\$ 33,219	\$	40,878	\$	41,110
Portion that, if recognized, would reduce tax expense and effective tax rate	30,868		40,695		40,977
Accrued interest on unrecognized tax benefits	5,204		6,240		5,459
Accrued penalties on unrecognized tax benefits	14		14		631
Reasonably possible reduction to the balance of unrecognized tax benefits in succeeding 12 months	\$0 to \$11,859		\$0 to \$6,268		\$0 to \$9,541
Portion that, if recognized, would reduce tax expense and effective tax rate	\$0 to \$10,217		\$0 to \$5,693		\$0 to \$8,224

Quanta classifies interest and penalties within the provision for income taxes. Quanta recognized interest income of \$0.7 million, interest expense of \$0.8 million and interest expense of \$0.1 million in the provision for income taxes for the years ended December 31, 2020, 2019 and 2018.

Quanta and certain subsidiaries remain under examination by various U.S. state and Canadian and other foreign tax authorities for multiple periods. Quanta does not consider any state in which it does business to be a major tax jurisdiction.

# 11. EQUITY:

#### **Exchangeable Shares**

In connection with certain prior acquisitions of Canadian businesses, the former owners of the acquired businesses received exchangeable shares of certain Canadian subsidiaries of Quanta, which could be exchanged at the option of the holders for Quanta common stock on a one-for-one basis. All holders of exchangeable shares had rights equivalent to Quanta common stockholders with respect to dividends and other economic rights. During 2020 and 2019, a nominal amount and 0.4 million exchangeable shares were exchanged for Quanta common stock, and as of December 31, 2020, no exchangeable shares remained outstanding.

#### **Treasury Stock**

General

Treasury stock is recorded at cost. Under Delaware law, treasury stock is not counted for quorum purposes or entitled to vote.

Shares withheld for tax withholding obligations

The tax withholding obligations of employees with respect to RSUs and PSUs that are settled in common stock are typically satisfied by Quanta making tax payments and withholding the number of common shares having a value equal to the tax withholding obligation that is due on the date of vesting or settlement (as applicable). With respect to these liabilities, Quanta withheld 0.6 million shares of Quanta common stock during the year ended December 31, 2020, which had a market value of \$5.5 million, 0.5 million shares of Quanta common stock during the year ended December 31, 2019, which had a market value of \$15.2 million. These shares and the related costs to acquire them were accounted for as adjustments to the balance of treasury stock.

#### Notional amounts recorded related to deferred compensation plans

For RSUs and PSUs that vest but the settlement of which is deferred under a deferred compensation plan, Quanta records a notional amount to "Treasury stock" and an offsetting amount to "Additional paid-in capital." At vesting, only shares withheld for tax liabilities other than income taxes are added to outstanding treasury shares, as the shares of Quanta common stock associated with deferred stock-based awards are not issued until settlement of the award. Upon settlement of the deferred stock-based awards and issuance of the associated Quanta common stock, the original accounting entry is reversed. The net amounts recorded to treasury stock related to the deferred compensation plans were a reduction to treasury stock of \$4.4 million, an increase to treasury stock of \$3.0 million and an increase to treasury stock of \$2.5 million during the years ended December 31, 2020, 2019 and 2018.

#### Stock repurchases

During the second quarter of 2017, Quanta's Board of Directors approved a stock repurchase program that authorized Quanta to purchase up to \$00.0 million of its outstanding common stock, which was completed during 2018. During the third quarter of 2018, Quanta's Board of Directors approved an additional stock repurchase program that authorizes Quanta to purchase, from time to time through June 30, 2021, up to \$500.0 million of its outstanding common stock. In August 2020, Quanta's Board of Directors authorized Quanta to repurchase, from time to time through June 30, 2023, up to an additional \$500.0 million in shares of its outstanding common stock under a new stock repurchase program. As of December 31, 2020, an aggregate \$536.8 million remained under the stock repurchase programs.

Quanta repurchased the following shares of common stock in the open market under the stock repurchase programs (in thousands):

Year ended:	Shares	 Amount
December 31, 2020	6,680	\$ 249,949
December 31, 2019	376	\$ 11,954
December 31, 2018	13,917	\$ 451,290

Repurchases under the repurchase programs may be implemented through open market repurchases or privately negotiated transactions, at management's discretion, based on market and business conditions, applicable contractual and legal requirements, including restrictions under Quanta's senior credit facility, and other factors. Quanta is not obligated to acquire any specific amount of common stock, and the repurchase programs may be modified or terminated by Quanta's Board of Directors at any time at its sole discretion and without notice.

Quanta's policy is to record a stock repurchase as of the trade date; however, the payment of cash related to the repurchase is made on the settlement date of the trade. During the years ended December 31, 2020, 2019 and 2018, cash payments related to stock repurchases were \$247.2 million, \$20.1 million and \$443.2 million.

#### Non-controlling Interests

Quanta holds interests in various entities through both joint venture entities that provide infrastructure-related services under specific customer contracts, either directly or through subcontracting relationships, and other equity investments in partially owned entities that own and operate certain infrastructure assets, including investments entered into through the partnership structure Quanta formed with certain infrastructure investors. Quanta has determined that certain of these joint ventures where Quanta provides the majority of the infrastructure services, which management believes most significantly influences the economic performance of such joint ventures, are VIEs. Management has concluded that Quanta is the primary beneficiary of these joint ventures and has accounted for each on a consolidated basis. The other partice' equity interests in these joint ventures have been accounted for as "Non-controlling interests" in Quanta's consolidated balance sheets. Net income attributable to the other participants in the amounts of \$6.4 million, \$4.8 million and \$2.7 million for the years ended December 31, 2020, 2019 and 2018 have been accounted for as a reduction of net income in deriving "Net income attributable to common stock" in Quanta's consolidated statements of operations.

The carrying amount of the investments in VIEs held by Quanta was \$13.2 million and \$12.0 million at December 31, 2020 and 2019. The carrying amount of investments held by the non-controlling interests in these VIEs at December 31, 2020 and 2019 was \$4.8 million and \$3.5 million. During the years ended December 31, 2020, 2019 and 2018, net distributions to non-controlling interests were \$5.4 million, \$2.5 million and \$4.0 million. There were no other material changes in equity as a result of transfers to/from the non-controlling interests during the years ended December 31, 2020, 2019 or 2018. See Note 14 for further disclosures related to Quanta's joint venture arrangements.

## Dividends

Quanta declared and paid the following cash dividends and cash dividend equivalents during 2020, 2019 and 2018 (in thousands, except per share amounts):

Declaration	Record	Payment	D	ividend	Dividends
Date	Date	Date	Pe	er Share	Declared
December 11, 2020	January 4, 2021	January 15, 2021	\$	0.06	\$ 8,933
August 26, 2020	October 1, 2020	October 15, 2020	\$	0.05 \$	\$ 7,244
May 28, 2020	July 1, 2020	July 15, 2020	\$	0.05 \$	\$ 7,182
March 26, 2020	April 6, 2020	April 15, 2020	\$	0.05 \$	\$ 7,184
December 11, 2019	January 2, 2020	January 16, 2020	\$	0.05 \$	\$ 7,371
August 28, 2019	October 1, 2019	October 15, 2019	\$	0.04	\$ 5,564
May 24, 2019	July 1, 2019	July 15, 2019	\$	0.04 \$	\$ 6,233
March 21, 2019	April 5, 2019	April 19, 2019	\$	0.04	\$ 5,896
December 6, 2018	January 2, 2019	January 16, 2019	\$	0.04 9	\$ 5,838

A significant majority of the dividends declared were paid on the corresponding payment dates. Holders of RSUs awarded under the Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (the 2011 Plan) generally received cash dividend equivalent payments equal to the cash dividend payable on account of the underlying Quanta common stock. Holders of RSUs awarded under the Quanta Services, Inc. 2019 Omnibus Equity Incentive Plan (the 2019 Plan) and holders of uncerned and unvested PSUs awarded under the 2011 Plan and the 2019 Plan receive cash dividend equivalent payments only to the extent such RSUs and PSUs become earned and/or vest. Additionally, cash dividend equivalent payments related to certain stock-based awards that have been deferred pursuant to the terms of a deferred compensation plan maintained by Quanta are recorded as liabilities in such plans until the deferred awards are settled. Holders of exchangeable shares of certain stockholders.

The declaration, payment and amount of future cash dividends will be at the discretion of Quanta's Board of Directors after taking into account various factors, including Quanta's financial condition, results of operations and cash flows from operations; current and anticipated capital requirements and expansion plans; the current and potential impact of the COVID-19 pandemic and other market, industry, economic and political conditions; income tax laws then in effect; and the requirements of Delaware law. In addition, as discussed in Note 8, Quanta's credit agreement restricts the payment of cash dividends unless certain conditions are met.

## 12. STOCK-BASED COMPENSATION:

#### Stock Incentive Plans

The 2019 Plan was approved by Quanta's stockholders in May 2019 and provides for the award of non-qualified stock options, incentive (qualified) stock options, stock appreciation rights, restricted stock awards, RSUs, stock bonus awards, performance compensation awards (including cash bonus awards) or any combination of the foregoing. Current and prospective employees, directors, officers, advisors or consultants of Quanta or its affiliates are eligible to participate in the 2019 Plan. Subject to certain adjustments, the maximum number of shares available for issuance under the 2019 Plan is 7,466,592 shares, plus any shares underlying share-settling awards previously awarded pursuant to the 2011 Plan that are ultimately forfeited, canceled, expired or settled in cash subsequent to stockholder approval of the 2019 Plan. All awards subsequent to the 2019 Plan proval of the 2019 Plan have been and will be made pursuant to the 2019 Plan and applicable award agreements. Awards made under the 2011 Plan prior to approval of the 2019 Plan remain subject to the terms of the 2011 Plan and applicable award agreements.

## **RSUs to be Settled in Common Stock**

During the years ended December 31, 2020, 2019 and 2018, Quanta granted2.0 million, 2.1 million and 1.6 million RSUs to be settled in common stock, with weighted average grant date fair values of \$39.91, \$35.62 and \$34.37 per share, respectively. The grant date fair value for RSUs to be settled in common stock is based on the market value of Quanta common stock on the date of grant. RSU awards to be settled in common stock are subject to forfeiture, restrictions on transfer and certain other conditions until vesting, which generally occurs in three equal annual installments following the date of grant. Holders of RSUs to be settled in common stock awarded under the 2011 Plan generally are entitled to receive a cash dividend

equivalent payment equal to any cash dividend payable on account of the underlying Quanta common stock on the payment date of any such dividend. Holders of RSUs to be settled in common stock awarded under the 2019 Plan are entitled to cash dividend equivalent payments in an amount equal to any cash dividend payable on account of the underlying Quanta common stock; however, payment of such amounts is not made until the RSUs vest, such that the dividend equivalent payments are subject to forfeiture.

During the years ended December 31, 2020, 2019 and 2018, vesting activity consisted of1.3 million, 1.3 million and 1.4 million RSUs settled in common stock with an approximate fair value at the time of vesting of \$51.6 million, \$48.7 million and \$48.6 million, respectively.

A summary of the activity for RSUs to be settled in common stock for the year ended December 31, 2020 is as follows (shares in thousands):

	Shares	Weighted Average Grant Date Fair Value (Per share)
Unvested at December 31, 2019	3,265	\$35.34
Granted	2,029	\$39.91
Vested	(1,269)	\$35.69
Forfeited	(156)	\$36.67
Unvested at December 31, 2020	3,869	\$37.57

During the years ended December 31, 2020, 2019 and 2018, Quanta recognized \$55.7 million, \$45.5 million and \$43.9 million of non-cash stock compensation expense related to RSUs to be settled in common stock. Such expense is recorded in "Selling, general and administrative expenses." As of December 31, 2020, there was \$80.9 million of total unrecognized compensation expense related to unvested RSUs to be settled in common stock granted to both employees and non-employees. This cost is expected to be recognized over a weighted average period of 2.38 years.

#### PSUs to be Settled in Common Stock

PSUs provide for the issuance of shares of common stock upon vesting, which occurs at the end of athree-year performance period based on achievement of certain company performance metrics established by the Compensation Committee of Quanta's Board of Directors, including financial and operational goals and Quanta's total shareholder return as compared to a predetermined group of peer companies. The final number of shares of common stock issuable upon vesting of PSUs can range from 0% to 200% of the number of PSUs initially granted, depending on the level of achievement, as determined by the Compensation Committee of Quanta's Board of Directors. Holders of PSUs are entitled to cash dividend equivalent payments in an amount equal to any cash dividend payable on account of the underlying Quanta common stock; however, payment of such amounts is not made until the PSUs vest, such that the dividend equivalent payments are subject to forfeiture.

During the years ended December 31, 2020, 2019 and 2018, Quanta granted 0.4 million, 0.4 million and 0.3 million PSUs to be settled in common stock, with weighted average grant date fair values of \$34.60, \$40.15 and \$38.28 per unit, respectively. The grant date fair values of the PSUs were determined as follows: (i) for the portion of the awards based on company financial and operational performance metrics, by multiplying the number of units granted by the closing price of Quanta's common stock on the date of grant and (ii) for the portion of the awards based on total shareholder return, by utilizing a Monte Carlo simulation valuation methodology. The Monte Carlo simulation valuation methodology applied the following key inputs:

	2020	2019	2018
Valuation date price based on March 26, 2020, March 8, 2019 and February 28, 2018 closing stock prices of Quanta			
common stock	\$31.49	\$35.19	\$34.44
Expected volatility	34 %	25 %	34 %
Risk-free interest rate	0.35 %	2.43 %	2.39 %
Term in years	2.76	2.81	2.84

Quanta recognizes expense, net of estimated forfeitures, for PSUs based on the forecasted achievement of the company financial and operational performance metrics and forecasted performance with respect to relative total shareholder return, multiplied by the completed portion of the three-year period and the fair value of the total number of shares of common stock that Quanta anticipates will be issued based on such achievement. During the years ended December 31, 2020, 2019 and 2018, Quanta recognized \$35.9 million, \$6.5 million and \$8.6 million in compensation expense associated with PSUs. Such expense is recorded in "Selling, general and administrative expenses." Included in compensation expense associated with PSUs during the year ended December 31, 2020 was a charge of \$14.0 million to correct the valuation of certain performance-based stock

awards during the years 2017 to 2019, \$7.2 million of which related to 2019 and \$5.7 million of which related to 2018. Quanta assessed the materiality of the prior period error and determined that the error was immaterial to both the current and prior period financial statements.

During the year ended December 31, 2020, 0.2 million PSUs vested, and 0.5 million shares of common stock were earned and either issued or deferred for future issuance in connection with PSUs. During the year ended December 31, 2019, 0.2 million PSUs vested, and 0.4 million shares of common stock were earned and either issued or deferred for future issuance in connection with PSUs. During the year ended December 31, 2019, 0.2 million PSUs vested, and 0.4 million shares of common stock were earned and either issued or deferred for future issuance in connection with PSUs. During the year ended December 31, 2018, 0.1 million PSUs vested, and 0.1 million shares of common stock were earned and either issued or deferred for future issuance in connection with PSUs.

## RSUs to be Settled in Cash

Certain RSUs granted by Quanta are settled solely in cash. These cash-settled RSUs are intended to provide plan participants with cash performance incentives that are substantially equivalent to the risks and rewards of stock ownership in Quanta, typically vest in three equal annual installments following the date of grant, and are subject to forfeiture under certain conditions, primarily termination of service. Additionally, subject to certain restrictions, Quanta's non-employee directors may elect to settle a portion of their RSU awards in cash. For RSUs settled in cash, the holders receive for each vested RSU an amount in cash equal to the fair market value of one share of Quanta common stock on the settlement date, as specified in the applicable award agreement.

Compensation expense related to RSUs to be settled in cash was \$.4 million, \$5.9 million and \$5.0 million for the years ended December 31, 2020, 2019 and 2018. Such expense is recorded in "Selling, general and administrative expenses." RSUs that are anticipated to be settled in cash are not included in the calculation of weighted average shares outstanding for earnings per share, and the estimated earned value of such RSUs is classified as a liability. Quanta paid \$4.3 million, \$5.4 million and \$5.9 million to settle liabilities related to cash-settled RSUs in the years ended December 31, 2020, 2019 and 2018. Accrued liabilities for the estimated earned value of outstanding RSUs to be settled in cash were \$8.7 million and \$4.3 million at December 31, 2020 and 2019.

#### **13. EMPLOYEE BENEFIT PLANS:**

#### Unions' Multiemployer Pension Plans

Quanta contributes to a number of multiemployer defined benefit pension plans under the terms of collective bargaining agreements with various unions that represent certain of Quanta's employees. Approximately 34% of Quanta's employees at December 31, 2020 were covered by collective bargaining agreements. Quanta's multiemployer pension plan contribution rates generally are specified in the collective bargaining agreements (usually on an annual basis), and contributions are made to the plans on a "pay-as-you-go" basis based on its union employee payrolls. Quanta may also have additional liabilities imposed by law as a result of its participation in multiemployer defined benefit pension plans. The Employee Retirement Income Security Act of 1974, as amended by the Multiemployer Pension Plan Amendments Act of 1980, imposes certain liabilities upon an employer who is a contributor to a multiemployer pension plan if the employer withdraws or is deemed to have withdrawn from the plan or the plan is terminated or experiences a mass withdrawal.

The Pension Protection Act of 2006 (PPA) also added special funding and operational rules generally applicable to plan years beginning after 2007 for multiemployer plans in the United States that are classified as "endangered," "seriously endangered" or "critical" status based on multiple factors (including, for example, the plan's funded percentage, cash flow position and whether a projected minimum funding deficiency exists). Plans in these classifications must adopt remedial measures to improve their funded status through a funding improvement or rehabilitation plan, as applicable, which may require additional contributions from employers (which may take the form of a surcharge on benefit contributions) and/or modifications to retiree benefits. Certain plans to which Quanta contributes or may contribute in the future are in "endangered," "seriously endangered" or "critical" status. The amount of additional funds, if any, that Quanta may be obligated to contribute to these plans cannot be reasonably estimated due to uncertainty regarding the amount of future work involving covered union employees, future contribution levels and possible surcharges on plan contributions.

The following table summarizes plan information relating to Quanta's participation in multiemployer defined benefit pension plans, including company contributions for the last three years, the status of the plans under the PPA and whether the plans are subject to a funding improvement or rehabilitation plan or contribution surcharges. The most recent PPA zone status available in 2020 and 2019 relates to the plans' fiscal year-ends in 2019 and 2018. Forms 5500 were not yet available for the plan years ending in 2020. The PPA zone status is based on information that Quanta received from the respective plans, as well as publicly available information on the U.S. Department of Labor website, and is certified by the plan's actuary. Although multiple factors or tests may result in red zone or yellow zone status, plans in the red zone generally are less than 65 percent funded, plans in the yellow zone generally are less than 80 percent funded, and plans in the green zone generally are at least 80

percent funded. Under the PPA, red zone plans are classified as "critical" status, yellow zone plans are classified as "endangered" status and green zone plans are classified as neither "endangered" nor "critical" status. The "Subject to Financial Improvement/ Rehabilitation Plan" column indicates plans for which a financial improvement plan or a rehabilitation plan is either pending or has been implemented. The last column lists the expiration dates of Quanta's collective-bargaining agreements to which the plans are subject. Total contributions to these plans correspond to the number of union employees employed at any given time and the plans in which they participate and vary depending upon the location and number of ongoing projects at a given time and the need for union resources in connection with such projects. Information has been presented separately for individually significant plans, based on PPA funding status classification, and in the aggregate for all other plans.

	Employee	DDA 7.	ne Status	Subject to Financial Improve- ment/		Contro		tions (in the				Expiration Date of
Fund	Identification Number/	2020	2019	- Reha- bilitation Plan		2020		2019		2018	- Sur-charge Imposed	Collective Bargaining Agreement
												Varies through August
National Electrical Benefit Fund	53-0181657	Green	Green	No	\$	40,902	\$	44,414	\$	35,399	No	2025
Excavators Union Local 731 Pension Fund	13-1809825	Green	Green	No		14,310		6,697		_	No	April 2022
Central Pension Fund of the IUOE & Participating Employers	36-6052390	Green	Green	No		8,467		11,638		9,246	No	Varies through June 2023
Eighth District Electrical Pension Fund	84-6100393	Green	Green	No		4,272		5,939		3,332	No	Varies through August 2023
Pipeline Industry Pension Fund	73-6146433	Green	Green	No		3,654		9,376		10,132	No	Varies through June 2023
Operating Engineers' Local 324 Pension Fund	38-1900637	Red	Red	Yes		2,629		4,315		2,310	Yes	Varies through June 2023
Locals 302 & 612 of the IUOE- Employers Construction Industry Retirement Plan	91-6028571	Green	Green	No		2,368		2,392		2,620	No	Varies through May 2021
Laborers Pension Trust Fund for Northern California	94-6277608	Green	Green	No		2,328		2,823		3,652	No	June 2023
Local 697 IBEW and Electrical Industry Pension Fund	51-6133048	Green	Green	No		1,840		3,717		2,656	No	May 2025
Plumbers and Pipefitters National Pension Fund	52-6152779	Yellow	Yellow	Yes		1,453		1,162		2,734	No	Varies through March 2023
Teamsters National Pipe Line Pension Plan	46-1102851	Green	Green	No		1,380		3,039		3,318	No	Varies through June 2023
Pension Trust Fund for Operating Engineers	94-6090764	Yellow	Yellow	Yes		1,177		956		1,922	Yes	June 2021
Laborers National Pension Fund	75-1280827	Red	Red	Yes		638		1,910		2,051	Yes	June 2023
West Virginia Laborers Pension Trust Fund	55-6026775	Green	Green	No		548		1,693		3,321	No	June 2023
Michigan Laborers' Pension Plan	38-6233976	Yellow	Yellow	Yes		512		1,491		1,061	Yes	March 2025
International Union of Operating Engineers Local 132 Pension Fund	55-6015364	Green	Green	No		168		1,289		3,367	No	June 2023
Laborers District Council of W PA Pension Fund	25-6135576	Yellow	Yellow	Yes		77		1,194		1,029	No	June 2023
Employer-Teamsters Local Nos 175 & 505 Pension Trust Fund	55-6021850	Red	Red	Yes		48		530		1,209	Yes	June 2023
All other plans - U.S.						28,447		23,171		28,314		
All other plans - Canada (1)						6,760		6,451	_	8,518		
Total contributions					\$ 1	121,978	\$	134,197	\$	126,191		

<sup>(1)</sup> Multiemployer defined benefit pension plans in Canada are not subject to the reporting requirements under the PPA. Accordingly, certain information was not publicly available.

Quanta's contributions to the following individually significant plans were five percent or more of the total contributions to these plans for the periods indicated based on the Forms 5500 for these plans for the years ended December 31, 2019 and 2018. Forms 5500 were not yet available for these plans for the year ended December 31, 2020.

Pension Fund	Plan Years in which Quanta Contributions Were Five Percent or More of Total Plan Contributions
National Electrical Benefit Fund	2019 and 2018
Eighth District Electrical Pension Fund	2019 and 2018
Pipeline Industry Pension Fund	2019 and 2018
Local 697 I.B.E.W. and Electrical Industry Pension Fund	2019 and 2018
Teamsters National Pipe Line Pension Plan	2019 and 2018
West Virginia Laborers Pension Trust Fund	2019 and 2018
I.B.E.W. Local 456 Pension Plan	2019 and 2018
Local Union No. 9 I.B.E.W. and Outside Contractors Pension Fund	2019 and 2018
International Union of Operating Engineers Local 132 Pension Fund	2018
Employer-Teamsters Local Nos 175 & 505 Pension Trust Fund	2018

In addition to the contributions made to multiemployer defined benefit pension plans noted above, Quanta also contributed to multiemployer defined contribution or other benefit plans on behalf of certain union employees. Contributions to union multiemployer defined contribution or other benefit plans by Quanta were \$188.6 million, \$201.3 million and \$174.7 million for the years ended December 31, 2020, 2019 and 2018. Total contributions made to all of these multiemployer plans correspond to the number of union employees employed at any given time and the plans in which they participate and vary depending upon the location and number of ongoing projects at a given time and the need for union resources in connection with such projects.

#### Quanta 401(k) Plan

Quanta maintains a 401(k) plan pursuant to which employees who are not provided retirement benefits through a collective bargaining agreement may make contributions through a payroll deduction. Quanta makes matching cash contributions of 100% of each employee's contribution up to 3% of that employee's salary and 50% of each employee's contribution between 3% and 6% of such employee's salary, up to the maximum amount permitted by law. Contributions to the 401(k) plan by Quanta were \$45.9 million, \$41.4 million and \$33.4 million for the years ended December 31, 2020, 2019 and 2018.

#### **Deferred Compensation Plans**

Quanta maintains non-qualified deferred compensation plans pursuant to which non-employee directors and certain key employees may defer receipt of some or all of their cash compensation and/or settlement of certain stock-based awards, subject to certain limitations. These plans are unfunded and unsecured compensation arrangements. Individuals participating in these plans may allocate deferred cash amounts among a group of notional accounts that mirror the gains and losses of various investment alternatives. Generally, participants receive distributions of deferred balances based on predetermined payout schedules or other events.

The plan covering key employees provides for employer matching contributions for certain officers and employees whose benefits under the 401(k) plan are limited by federal tax law. Quanta may also make discretionary employer contributions to such plan. Matching contributions vest immediately, and discretionary employer contributions may be subject to a vesting schedule determined at the time of the contribution, provided that vesting accelerates upon a change in control or the participant's death or retirement. All matching and discretionary employer contributions, whether vested or not, are forfeited upon a participant's termination of employment for cause or upon the participant engaging in competition with Quanta or any of its affiliates.

Quanta made matching contributions to the eligible participants' accounts under the deferred compensation plans of \$1.3 million, \$1.1 million and \$1.1 million during the years ended December 31, 2020, 2019 and 2018 and made no discretionary contributions during the years ended December 31, 2020, 2019 and 2018. At December 31, 2020 and 2019, obligations under these plans, including amounts contributed by Quanta, were \$58.2 million and \$47.3 million and were included in "Insurance and other non-current liabilities" in the accompanying consolidated balance sheets. Quanta maintains investments to provide for future obligations related to these deferred compensation plans. At December 31, 2020 and 2019, these investments were

primarily comprised of company-owned life insurance policies, had fair market values of \$56.5 million and \$45.8 million and were included in "Other assets, net" in the accompanying consolidated balance sheets.

## 14. COMMITMENTS AND CONTINGENCIES:

#### Investments in Affiliates and Other Entities

As described in Notes 2 and 11, Quanta holds investments in various entities, including joint venture entities that provide infrastructure-related services under specific customer contracts and partially owned entities that own, operate and/or maintain certain infrastructure assets. Losses incurred by these entities are generally shared ratably based on the percentage ownership of the participants in these structures. However, in Quanta's joint venture structures that provide infrastructure-related services, each participant is typically jointly and severally liable for all of the obligations of the joint venture entity pursuant to the contract with the customer, as a general partner or through a parent guarantee and, therefore, can be liable for full performance of the contract with the customer. In circumstances where Quanta's participation in a joint venture qualifies as a general partnership, the joint venture partners are jointly and severally liable for all obligations of the joint venture, including obligations owed to the customer or any other person or entity. Quanta is not aware of circumstances that would lead to future claims against it for material amounts in connection with the other participant is obligated to bear under the respective joint venture agreement or in accordance with the scope of work subcontracted to each participant. It is possible, however, that Quanta is not aware of circumstances of its share if another participant is unable or refuses to pay or perform obligations. Quanta is not aware of circumstances that would lead to future claims against it or refuses to pay or perform the obligations. Quanta is not aware of circumstances of its share if another participant is unable or refuses to pay or perform the share of the obligations. Quanta is not aware of circumstances that would lead to future claims against it for material amounts that would not be indemnified. However, to the extent any such claims arise, they could be material and could adversely affect Quanta's consolidated b

As described in Note 2, Quanta also formed a partnership in 2017 with select investors to invest in certain specified infrastructure projects, and wholly owned subsidiaries of Quanta serve as the general partner of this partnership and as a separately operated registered investment adviser that manages the invested capital. Quanta's investment balance related to this partnership was \$21.4 million as of December 31, 2020. In October 2019, due to certain management changes at the registered investment adviser, the partnership entered into a period during which the investors and Quanta evaluated the partnership, and at the end of such period in April 2020, the investment period for any future investments ended.

### **Committed Expenditures**

Quanta has capital commitments for the expansion of its equipment fleet in order to accommodate manufacturer lead times on certain types of vehicles. As of December 31, 2020, Quanta had \$69.7 million of production orders with expected delivery dates in 2021. Although Quanta has committed to purchase these vehicles at the time of their delivery, Quanta anticipates that the majority of these orders will be assigned to third-party leasing companies and made available under certain master equipment lease agreements, thereby releasing Quanta from its capital commitments.

#### Legal Proceedings

Quanta is from time to time party to various lawsuits, claims and other legal proceedings that arise in the ordinary course of business. These actions typically seek, among other things, compensation for alleged personal injury, breach of contract, negligence or gross negligence and/or property damage, environmental liabilities, wage and hour and other employment-related damages, punitive damages, consequential damages, civil penalties or other losses, or injunctive or declaratory relief. With respect to all such lawsuits, claims and proceedings, Quanta records a reserve when it is probable that a liability has been incurred and the amount of loss can be reasonably estimated. In addition, Quanta discloses matters for which management believes a material loss is at least reasonably possible. Except as otherwise stated below, none of these proceedings are expected to have a material adverse effect on Quanta's consolidated financial position, results of operations or cash flows. In all instances, management has assessed the matter based on current information and made a judgment concerning its potential outcome, giving due consideration to the nature of the claim, the amount and nature of damages sought and the probability of success. Management's judgment may prove materially inaccurate, and such judgment is made subject to the known uncertainties of litigation.

## Peru Project Dispute

In 2015, Redes Andinas de Comunicaciones S.R.L. (Redes), a majority-owned subsidiary of Quanta, entered into two separate contracts with an agency of the Peruvian Ministry of Transportation and Communications (MTC), currently Programa Nacional de Telecomunicaciones (PRONATEL), as successor to Fondo de Inversion en Telecomunicaciones (FITEL), pursuant to which Redes would design, construct and operate certain telecommunication networks in rural regions of Peru. The

aggregate consideration provided for in the contracts was approximately \$248 million, consisting of approximately \$151 million to be paid during the construction period and approximately \$97 million to be paid during a 10-year post-construction operation and maintenance period. At the beginning of the project, FITEL made advance payments totaling approximately \$87 million to Redes, which were secured by two on-demand advance payment bonds posted by Redes to guarantee proper use of the payments in the execution of the project. Redes also provided two on-demand performance bonds in the aggregate amount of \$25 million to secure performance of its obligations under the contracts.

During the construction phase, the project experienced numerous challenges and delays, primarily related to issues which Quanta believes were outside of the control of and not attributable to Redes, including, among others, weather-related issues, local opposition to the project, permitting delays, the inability to acquire clear title to certain required parcels of land and other delays which Quanta believes were attributable to FITEL/PRONATEL. In response to various of these challenges and delays, Redes requested and received multiple extensions to certain contractual deadlines and relief from related liquidated damages. However, in April 2019, PRONATEL provided notice to Redes claiming that Redes was in default under the contracts due to the delays and that PRONATEL would terminate the contracts if the alleged defaults were not cured. Redes responded by claiming that it was not in default, as the delays were due to events not attributable to Redes, and therefore PRONATEL was not entitled to terminate the contracts. PRONATEL subsequently terminated the contracts for alleged cause prior to completion of Redes' scope of work, exercised the on-demand performance bonds and advance payment bonds against Redes, and indicated its intention to claim damages, including a verbal allegation of approximately \$45 million of liquidated damages under the U.S. dollar equivalent of the amount asserted based on the December 31, 2020 exchange rate.

In May 2019, Redes filed for arbitration before the Court of International Arbitration of the International Chamber of Commerce (ICC) against PRONATEL and the MTC. In the arbitration, Redes claims that PRONATEL: (i) breached and wrongfully terminated the contracts; (ii) wrongfully executed the advance payment bonds and the performance bonds; and (iii) is not entitled to the alleged amount of liquidated damages. In addition, Redes is seeking compensation for all damages arising from PRONATEL's actions, including but not limited to (i) repayment of the amounts collected by PRONATEL under the advance payment bonds and the performance bonds; (ii) payment of amounts owed for work completed by Redes under the contracts; (iii) lost income in connection with Redes' future operation and maintenance of the networks; and (iv) other related costs and damages to Redes as a result of the breach and improper termination of the contracts (including construction costs caused by the delays and costs related to the place in November 2021.

As of the date of the contract terminations, Redes had incurred costs of approximately \$157 million related to the design and construction of the project and had received approximately \$100 million of payments (inclusive of the approximately \$87 million advance payments). Furthermore, upon completion of the transfer of the networks (as completed at the time of the contract terminations) to PRONATEL, which was required upon termination of the contracts and was completed in 2020, PRONATEL and the MTC are able to possess the networks, for which PRONATEL has paid approximately \$100 million while also collecting approximately \$112 million of bond proceeds. Quanta believes that PRONATEL's actions represent an abuse of power and unfair and inequitable treatment and that PRONATEL and the MTC have been unjustly enriched. Specifically, under the terms of the contracts, the advance payment bonds were to be exercised only if it is determined that Redes did not use the advance payments for their intended purpose, in which case Redes would be obligated to return the portion of the advance payments for project expenditures. Redes has incurred substantially more than the advance payment amounts in the execution of the project, and Quanta believes Redes has used the advance payment amounts for their intended purpose.

Quanta believes Redes is entitled to all amounts described in the claims above and intends to vigorously pursue those claims in this pending arbitration proceeding. However, as a result of the contract terminations and the inherent uncertainty involved in arbitration proceedings and recovery of amounts owed, there can be no assurance that Redes will prevail on those claims or in defense of liquidated damages claims or any other claims that may be asserted by PRONATEL. As a result, during the three months ended June 30, 2019, Quanta recorded a charge to earnings of \$79.2 million, which included a reduction of previously recognized earnings on the project, a reserve against a portion of the project costs incurred through the project termination date, an accrual for a portion of the alleged liquidated damages, and the estimated costs to complete the project turnover and close out the project. The reduction of previously recognized earnings on the project errors and determined that the errors were immaterial individually and in the aggregate to its previously issued financial statements.

As of December 31, 2020, after taking into account the above charge, Quanta had a contract receivable of approximately \$20 million related to the project, which includes the approximately \$87 million PRONATEL collected through exercise of the

advance payment bonds. The contract receivable from PRONATEL is included in "Other assets, net" in the accompanying consolidated balance sheet as of December 31, 2020.

Quanta also reserves the right to seek full compensation for the loss of its investment under other applicable legal regimes, including investment treaties and customary international law, as well as to seek resolution through direct discussions with PRONATEL or the MTC. In connection with these rights, in May 2020 Quanta's Dutch subsidiary delivered to the Peruvian government an official notice of dispute arising from the termination of the contracts and related acts by PRONATEL (which are attributable to Peru) under the Agreement on the Encouragement and Reciprocal Protection of Investments between the Kingdom of the Netherlands and the Republic of Peru (Investment Treaty). The Investment Treaty protects Quanta's subsidiary's indirect ownership stake in Redes and the project, and provides for rights and remedies distinct from the ICC arbitration. In December 2020, Quanta's Dutch subsidiary filed a request for the institution of an arbitration proceeding against Peru with the International Centre for Settlement of Investment Disputes (ICSID) related to Peru's breach of the Investment Treaty, which was registered by ICSID in January 2021. In the ICSID arbitration, Quanta's Dutch subsidiary's investment in Redes and the project unfairly and inequitably; and (ii) effectively expropriated the subsidiary's investment in Redes and the project unfairly and inequitably; and (ii) effectively expropriated the subsidiary's investment and/or lost profits; (ii) attorneys' fees and arbitration costs; (iii) other related costs and damages and (iv) pre- and post-award interest.

If Quanta is not successful in these pending arbitration proceedings, this matter could result in an additional significant loss that could have a material adverse effect on Quanta's consolidated results of operations and cash flows. However, based on the information currently available and the status of the pending arbitration proceedings, Quanta is not able to determine a range of reasonably possible additional loss, if any, with respect to this matter.

#### Maurepas Project Dispute

During the third quarter of 2017, Maurepas Pipeline, LLC (Maurepas) notified QPS Engineering, LLC (QPS), a subsidiary of Quanta, of its claim for liquidated damages allegedly arising from delay in mechanical completion of a project in Louisiana. Quanta disputes the claim and believes that QPS is not responsible for liquidated damages under the contract terms, and in June 2019 QPS filed suit against SemGroup Corporation, (now Energy Transfer LP), the parent company of Maurepas, under the parent guarantee issued to secure payment from Maurepas on the project. QPS is seeking to recover \$22 million that it believes has been wrongfully withheld, which represents the maximum liability for liquidated damages pursuant to the contract terms. In July and August 2018, QPS also received notice from Maurepas claiming certain warranty defects on the project. In July 2019, Maurepas filed suit against QPS and Quanta, pursuant to a parent guarantee, for damages related to the warranty defects and for a declaratory judgment related to the liquidated damages claim, subsequently claiming approximately \$59 million in damages related to a portion of the alleged warranty defects. The lawsuits relating to these claims have been consolidated and are pending in the Tulsa County District Court in Oklahoma. Quanta is continuing to evaluate the claimed warranty defects or has not been able to substantiate them.

As of December 31, 2020, Quanta had recorded an accrual with respect to this matter based on the current estimated amount of probable loss. However, based on the information currently available, Quanta cannot estimate the range of additional reasonably possible loss in connection with this matter. If, upon final resolution of this matter, Quanta is unsuccessful, any liquidated damages or warranty defect damages in excess of Quanta's current loss accrual would be recorded as additional costs on the project.

#### Lorenzo Benton v. Telecom Network Specialists, Inc., et al.

In June 2006, plaintiff Lorenzo Benton filed a class action complaint in the Superior Court of California, County of Los Angeles, alleging various wage and hour violations against Telecom Network Specialists (TNS), a former subsidiary of Quanta. Quanta retained liability associated with this matter pursuant to the terms of Quanta's sale of TNS in December 2012. Benton represents a class of workers that includes all persons who worked on certain TNS projects, including individuals that TNS retained through numerous staffing agencies. The plaintiff class in this matter is seeking damages for unpaid wages, penalties associated with the failure to provide meal and rest periods and overtime wages, interest and attorneys' fees. In January 2017, the trial court granted a summary judgment motion filed by the plaintiff class and found that TNS was a joint employer of the class members and that it failed to provide adequate meal and rest breaks and failed to pay overtime wages. During 2019 and 2020, the parties filed additional summary judgment and other motions and a bench trial on liability and damages was held. Liability and damages for significantly all claims have been determined by the trial court, subject to issuance of a final order, with the amount of liability for TNS, including interest through the date of the trial court's orders, expected to be approximately \$9.5 million. This amount includes damages and interest, but does not include attorneys' fees or costs, which are yet to be determined. Quanta believes the court's decisions on liability and damages are not supported by controlling law and continues to contest its liability and the damage calculation asserted by the plaintiff class in this matter.

Additionally, in November 2007, TNS filed cross complaints for indemnity and breach of contract against the staffing agencies, which employed many of the individuals in question. In December 2012, the trial court heard cross-motions for summary judgment filed by TNS and the staffing agencies pertaining to TNS's demand for indemnity. The court denied TNS's motion and granted the motions filed by the staffing agencies; however, the California Appellate Court reversed the trial court's decision in part and instructed the trial court to reconsider its ruling. In February 2017, the court denied a new motion for summary judgment filed by the staffing companies and has since stated that the staffing companies would be liable to TNS for any damages owed to the class members that the staffing companies employed.

The final amount of liability, if any, payable in connection with this matter remains the subject of pending litigation and will ultimately depend on various factors, including the outcome of Quanta's appeal of the trial court's rulings on liability and damages, the final determination with respect to any additional damages owed by Quanta, and the solvency of the staffing agencies. Based on review and analysis of the trial court's rulings on liability, Quanta does not believe, at this time, that it is probable this matter will result in a material loss. However, if Quanta is unsuccessful in this litigation and the staffing agencies are unable to fund damages owed to class members, Quanta believes the range of reasonably possible loss to Quanta upon final resolution of this matter could be up to approximately \$9.5 million, plus attorneys' fees and expenses of the plaintiff class.

#### Hallen Acquisition Assumed Liability

In August 2019, in connection with the acquisition of Hallen, Quanta assumed certain contingent liabilities associated with a March 2014 natural gas-fed explosion and fire in the Manhattan borough of New York City, New York. The incident resulted in, among other things, loss of life, personal injury and the destruction of two buildings and other property damage. After investigation, the National Transportation Safety Board determined that the probable cause of the incident was the failure of certain natural gas infrastructure installed by Consolidated Edison, Inc. (Con Ed) and the failure of certain sewer infrastructure maintained by the City of New York. Pursuant to a contract with Con Ed, Hallen had performed certain work related to such natural gas infrastructure and agreed to indemnify Con Ed for certain claims, liabilities and costs associated with its work. Numerous lawsuits are pending in New York state courts related to the incident, which generally name Con Ed, the City of New York and Hallen as defendants. These lawsuits are at various preliminary stages and generally seek unspecified damages and, in some cases, punitive damages, for wrongful death, personal injury, property damage and business interruption.

Hallen's liabilities associated with this matter are expected to be covered under applicable insurance policies or contractual remedies negotiated by Quanta with the former owners of Hallen. As of December 31, 2020, Quanta had not recorded an accrual for any probable and estimable loss related to this matter. However, the ultimate amount of liability in connection with this matter remains subject to uncertainties associated with pending litigation, including, among other things, the apportionment of liability among the defendants and other responsible parties and the likelihood and amount of potential damages claims. As a result, this matter could result in a loss that is in excess of, or not covered by, such insurance or contractual remedies, which could have a material adverse effect on Quanta's consolidated financial condition, results of operations and cash flows.

## Concentrations of Credit Risk

Quanta is subject to concentrations of credit risk related primarily to its cash and cash equivalents and its net receivable position with customers, which includes amounts related to billed and unbilled accounts receivable and contract assets net of advanced billings with the same customer. Substantially all of Quanta's cash and cash equivalents are managed by what it believes to be high credit quality financial institutions. In accordance with Quanta's investment policies, these institutions are authorized to invest cash and cash equivalents in a diversified portfolio of what Quanta believes to be high quality cash and cash equivalent investments, which consist primarily of interest-bearing demand deposits, money market investments and money market mutual funds. Although Quanta does not currently believe the principal amount of these cash and cash equivalents is subject to any material risk of loss, changes in economic conditions could impact the interest income Quanta receives from these investments. In addition, Quanta grants credit under normal payment terms, generally without collateral, to its customers, which include electric power and energy companies, governmental entities, general contractors, and builders, owners and managers of commercial and industrial properties located primarily in the United States, Canada and Australia. While Quanta generally has certain statutory lien rights with respect to services provided, Quanta is subject to potential credit risk related to business, economic and financial market conditions that affect these customers and locations, which has been heightened as a result of the unfavorable and uncertain economic and financial market conditions that affect these customers have experienced significant decline in commodity prices and volatility in commodity production volumes. Some of Quanta's customers have experienced significant financial difficulties (including bankruptcy), and customers may experience financial difficulties in the future. These difficulties expose Quant

For example, on January 29, 2019, PG&E Corporation and its primary operating subsidiary, Pacific Gas and Electric Company (together, PG&E), one of Quanta's largest customers, filed for bankruptcy protection under Chapter 11 of the U.S. Bankruptcy Code, as amended, which resulted in the delay in collection of approximately \$165 million of billed and unbilled

Attachment D

receivables. During the bankruptcy case, the bankruptcy court approved the early assumption by PG&E of certain contracts with subsidiaries of Quanta, and PG&E subsequently assumed its remaining contracts with Quanta's subsidiaries as part of its Chapter 11 plan of reorganization, which was confirmed by the bankruptcy court in June 2020. As of December 31, 2020, substantially all of Quanta's pre-petition receivables had been paid. Additionally, a customer within Quanta's Underground Utility and Infrastructure Solutions segment encountered financial difficulties during 2020 that resulted in nonpayment of certain receivables owed, and as a result of which Quanta decided to foreclose the liens on the pipeline asset in order to recover the outstanding amounts.

No customer represented 10% or more of Quanta's consolidated revenues for the years ended December 31, 2020, 2019 or 2018, and no customer represented 10% or more of Quanta's consolidated net receivable position at December 31, 2020 or 2019.

#### Insurance

As discussed in Note 2, Quanta carries various insurance policies. As of December 31, 2020 and 2019, the gross amount accrued for employer's liability, workers' compensation, auto liability, general liability and group health claims totaled \$319.5 million and \$287.6 million, with \$238.0 million and \$212.9 million considered to be long term and included in "Insurance and other non-current liabilities." Related insurance recoveries/receivables as of December 31, 2020 and 2019 were \$35.6 million and \$35.1 million, of which \$0.4 million and \$0.3 million are included in "Prepaid expenses and other current assets" and \$35.2 million and \$34.8 million are included in "Other assets, net."

Quanta renews its insurance policies on an annual basis, and therefore deductibles and levels of insurance coverage may change in future periods. In addition, insurers may cancel Quanta's coverage or determine to exclude certain items from coverage, or Quanta may elect not to obtain certain types or incremental levels of insurance based on the potential benefits considered relative to the cost of such insurance, or coverage may not be available at reasonable and competitive rates. In any such event, Quanta's overall risk exposure would increase, which could negatively affect its results of operations, financial condition and cash flows. For example, due to the increased occurrence and future risk of wildfires in California and other areas in the western United States, Australia and other locations, insurers have reduced coverage availability and increased the cost of insurance coverage for such events in recent years. As a result, Quanta's level of insurance coverage for wildfire events decreased, including in connection with annual insurance renewals in the spring of 2020 and 2019, and the levels of coverage may not be sufficient to cover potential losses. Quanta's third-party insurers could also decide to further reduce or exclude coverage for wildfires or other events in connection with its insurance renewal in the spring of 2021 and/or in the future. In any such event, Quanta's overall risk exposure would increase, which could negatively affect its financial condition, results of operations and cash flows.

#### Letters of Credit

Certain of Quanta's vendors require letters of credit to ensure reimbursement for amounts they are disbursing on Quanta's behalf, such as to beneficiaries under its insurance programs. In addition, from time to time, certain customers require Quanta to post letters of credit to ensure payment of subcontractors and vendors and guarantee performance under contracts. Such letters of credit are generally issued by a bank or similar financial institution, typically pursuant to Quanta's senior credit facility. Each letter of credit commits the issuer to pay specified amounts to the holder of the letter of credit if the holder claims that Quanta has failed to perform specified actions. If this were to occur, Quanta would be required to reimburse the issuer of the letter of credit. Depending on the circumstances of such a reimbursement, Quanta may also be required to record a charge to earnings for the reimbursement.

As of December 31, 2020, Quanta had \$348.3 million in outstanding letters of credit under its senior credit facility securing its casualty insurance program and various contractual commitments. These are irrevocable stand-by letters of credit with maturities generally expiring at various times throughout 2021. Quanta expects to renew the majority of the letters of credit related to the casualty insurance program for subsequent one-year periods upon maturity. As of December 31, 2020, Quanta also had \$18.2 million of letters of credit issued by a financial institution that ceased to be a lender under the senior credit facility subsequent to the September 2020 amendment to the credit agreement, and such letters of credit are collateralized by a \$19.1 million letter of credit issued by a lender in the senior credit facility. Quanta is not aware of any claims currently asserted or threatened under any of these letters of credit that are material, individually or in the aggregate. However, to the extent payment is required for any such claims, the amount paid could be material and could adversely affect Quanta's consolidated business, financial condition, results of operations or cash flows.

## **Bonds and Parent Guarantees**

Many customers, particularly in connection with new construction, require Quanta to post performance and payment bonds. These bonds provide a guarantee that Quanta will perform under the terms of a contract and pay its subcontractors and vendors. In certain circumstances, the customer may demand that the surety make payments or provide services under the bond,

and Quanta must reimburse the surety for any expenses or outlays it incurs. Quanta may also be required to post letters of credit in favor of the sureties, which would reduce the borrowing availability under its senior credit facility. Under Quanta's underwriting, continuing indemnity and security agreement with its sureties, Quanta had also granted security interests in certain of its assets as collateral for its obligations to the sureties. However, in connection with the September 2020 amendment to the credit agreement, these security interests were automatically released. On September 22, 2020, Quanta also entered into an amendment to the underwriting, continuing indemnity and security agreement that further documented this release and removed the collateral reinstatement provision in the agreement that would have applied in the event Quanta's corporate credit rating from either of Moody's Investors Service, Inc. or Standard & Poor's Financial Services LLC were to fall below an investment grade rating.

Quanta has not been required to make any material reimbursements to its sureties for bond-related costs except related to the exercise of approximately \$12 million advance payment and performance bonds in 2019 in connection with the terminated telecommunications project in Peru, as set forth in *Legal Proceedings – Peru Project Dispute* above. However, to the extent further reimbursements are required, the amounts could be material and could adversely affect Quanta's consolidated business, financial condition, results of operations or cash flows. As of December 31, 2020, Quanta is not aware of any outstanding material obligations for payments related to bond obligations.

Performance bonds expire at various times ranging from mechanical completion of a project to a period extending beyond contract completion in certain circumstances, and as such a determination of maximum potential amounts outstanding requires the use of certain estimates and assumptions. Such amounts can also fluctuate from period to period based upon the mix and level of Quanta's bonded operating activity. As of December 31, 2020, the total amount of the outstanding performance bonds was estimated to be approximately \$3.7 billion. Quanta's estimated maximum exposure as it relates to the value of the performance bonds outstanding is lowered on each bonded project as the cost to complete is reduced, and each commitment under a performance bond generally extinguishes concurrently with the expiration of its related contractual obligation. The estimated cost to complete these bonded projects was approximately \$1.4 billion as of December 31, 2020.

Additionally, from time to time, Quanta guarantees certain obligations and liabilities of its subsidiaries that may arise in connection with, among other things, contracts with customers, equipment lease obligations, joint venture arrangements and contractor licenses. These guarantees may cover all of the subsidiary's unperformed, undischarged and unreleased obligations and liabilities under or in connection with the relevant agreement. For example, with respect to customer contracts, a guarantee may cover a variety of obligations and liabilities arising during the ordinary course of the subsidiary's business or operations, including, among other things, warranty and breach of contract claims, third party and environmental liabilities arising from the subsidiary's work and for which it is responsible, liquidated damages, or indemnity claims. Quanta is not aware of any claims under any of these guarantees that are material, except as set forth in *Legal Proceedings – Maurepas Project Dispute* above. To the extent a subsidiary incurs a material obligation or liability and Quanta has guaranteed the performance or payment of such liability, the recovery by a customer or other counterparty or a third party will not be limited to the assets of the subsidiary. As a result, responsibility under the guarantee could exceed the amount recoverable from the subsidiary alone and could materially and adversely affect Quanta's consolidated business, financial condition, results of operations and cash flows.

#### **Employment** Agreements

Quanta has various employment agreements with certain executives and other employees, which provide for compensation, other benefits and, under certain circumstances, severance payments and post-termination stock-based compensation benefits. Certain employment agreements also contain clauses that require the potential payment of specified amounts to such employees upon the occurrence of a defined change in control event.

## Collective Bargaining Agreements and Multiemployer Pension Plans

Certain of Quanta's operating units are parties to collective bargaining agreements with unions that represent certain of their employees. The collective bargaining agreements expire at various times and have typically been renegotiated and renewed on terms similar to those in the expiring agreements. From time to time, Quanta is a party to grievance and arbitration actions based on claims arising out of the collective bargaining agreements. The agreements require the operating units to pay specified wages, provide certain benefits to union employees and contribute certain amounts to multiemployer pension plans and employee benefit trusts. Quanta's multiemployer pension plan contribution rates generally are made to the plans on a "pay-as-you-go" basis based on its union employee payrolls. The location and number of union employees that Quanta employs at any given time and the plans in which they may participate vary depending on Quanta's need for union resources in connection with its ongoing projects. Therefore, Quanta is unable to accurately predict its union employee payroll and the resulting multiemployer pension plan contribution obligations for future periods.

The Pension Protection Act of 2006 may require Quanta to make additional contributions to its multiemployer pension plans if they become underfunded, and these additional contributions will be determined based on Quanta's union employee payrolls. Special funding and operational rules are generally applicable to plan years beginning after 2007 for multiemployer

plans that are classified as "endangered," "seriously endangered" or "critical" status based on multiple factors (including, for example, the plan's funded percentage, the plan's cash flow position and whether the plan is projected to experience a minimum funding deficiency). Plans in these classifications must adopt measures to improve their funded status through a funding improvement or rehabilitation plan, as applicable, which may require additional contributions from employers (e.g., a surcharge on benefit contributions) and/or modifications to retiree benefits. Certain plans to which Quanta contributes or may contribute in the future are in "endangered," "seriously endangered" or "critical" status. The amount, if any, that Quanta may be obligated to contribute to these plans cannot be reasonably estimated due to uncertainty regarding the amount of future work involving covered union employees, future contribution levels and possible surcharges on plan contributions.

Quanta may be subject to additional liabilities imposed by law as a result of its participation in multiemployer defined benefit pension plans. For example, the Employee Retirement Income Security Act of 1974, as amended by the Multiemployer Pension Plan Amendments Act of 1980, imposes certain liabilities upon an employer who is a contributor to a multiemployer pension plan if the employer withdraws or is deemed to have withdrawn from the plan or the plan is terminated or experiences a mass withdrawal. These liabilities include an allocable share of the unfunded vested benefits in the plan for all plan participants, not merely the benefits payable to a contributing employer's own retirees. As a result, participating employers may bear a higher proportion of liability for unfunded vested benefits if other participating employers cease to contribute or withdraw, with the reallocation of liability being more acute in cases when a withdrawn employer is insolvent or otherwise fails to pay its withdrawal liability. Quanta is not aware of any material withdrawal liabilities that have been incurred or asserted and that remain outstanding as a result of a withdrawal by Quanta from a multiemployer defined benefit pension plan. However, Quanta's future contribution obligations and potential withdrawal liability exposure could vary based on the investment and actuarial performance of the multiemployer pension plans to which it contributes and other factors, which could be negatively impacted as a result of the unfavorable and uncertain economic and financial market conditions resulting from the ongoing COVID-19 pandemic and related issues. Quanta has been subject to significant withdrawal liabilities in the gat, including in connection with its withdrawal from the Central States, Southeast and Southwest Areas Pension Plan. To the extent Quanta is subject to material withdrawal liability could adversely affect its business, financial condition, results of operations or cash flows.

#### **Deferred** Compensation Plans

Quanta maintains certain non-qualified deferred compensation plans as further described in Note 13.

#### Indemnities

Quanta generally indemnifies its customers for the services it provides under its contracts and other specified liabilities, which may subject Quanta to indemnity claims and liabilities and related litigation. Additionally, in connection with certain acquisitions and dispositions, Quanta has indemnified various parties against specified liabilities that those parties might incur in the future. The indemnities under acquisition or disposition agreements are usually contingent upon the other party incurring liabilities that reach specified thresholds. Quanta is not aware of any indemnity claims in connection with its indemnity obligations that are material. However, to the extent indemnification is required, the amount could adversely affect Quanta's consolidated business, financial condition, results of operations or cash flows.

In the normal course of Quanta's acquisition transactions, Quanta obtains rights to indemnification from the sellers or former owners of acquired businesses for certain risks, liabilities and obligations arising from their prior operations, such as performance, operational, safety, workforce or tax issues, some of which Quanta may not have discovered during due diligence. However, the indemnities may not cover all of Quanta's exposure for such pre-acquisition matters, or the indemnitors may be unwilling or unable to pay amounts owed to Quanta. Accordingly, Quanta may incur expenses for which it is not reimbursed, and such amounts could be material and could have a material adverse effect on Quanta's business or consolidated financial condition, results of operations and cash flows. For example, Quanta has obtained certain indemnification rights from the former owners of Hallen with respect to contingent liabilities that were assumed in connection with the acquisition, as set forth in *Legal Proceedings — Hallen Acquisition Assumed Liability* above.

## 15. SEGMENT INFORMATION:

Quanta presents its operations under two reportable segments: (1) Electric Power Infrastructure Solutions and (2) Underground Utility and Infrastructure Solutions. This structure is generally based on the broad end-user markets for Quanta's services. See Note 1 for additional information regarding Quanta's reportable segments.

Quanta's segment results are derived from the types of services provided across its operating units in each of its end user markets. Quanta's entrepreneurial business model allows multiple operating units to serve the same or similar customers and to provide a range of services across end user markets. Quanta's operating units are organized into one of two internal divisions: the Electric Power Infrastructure Solutions Division and the Underground Utility and Infrastructure Solutions Division. These

internal divisions are closely aligned with the reportable segments, and operating units are assigned to divisions based on the predominant type of work performed.

Reportable segment information, including revenues and operating income by type of work, is gathered from each operating unit for the purpose of evaluating segment performance in support of Quanta's market strategies. Classification of operating unit revenues by type of work for segment reporting purposes can require judgment on the part of management. Quanta's operating units may perform joint projects for customers in multiple industries, deliver multiple types of services under a single customer contract or provide service offerings to various industries. For example, Quanta performs joint trenching projects to install distribution lines for electric power and natural gas customers.

In addition, Quanta's integrated operations and common administrative support for its operating units require that certain allocations be made to determine segment profitability, including allocations of shared and indirect costs (e.g., facility costs), indirect operating expenses (e.g., depreciation), and general and administrative costs. Certain corporate costs are not allocated and include payroll and benefits, employee travel expenses, facility costs, professional fees, acquisition costs and amortization related to intangible assets.

Summarized financial information for Quanta's reportable segments is presented in the following table (in thousands):

	Year Ended December 31,				
	 2020	2019			2018
Revenues:					
Electric Power Infrastructure Solutions	\$ 7,773,343	\$	7,121,837	\$	6,415,562
Underground Utility and Infrastructure Solutions	3,429,329		4,990,316		4,755,861
Consolidated revenues	\$ 11,202,672	\$	12,112,153	\$	11,171,423
Operating income (loss):				-	
Electric Power Infrastructure Solutions	\$ 826,325	\$	591,177	\$	628,286
Underground Utility and Infrastructure Solutions	170,074		332,011		204,178
Corporate and non-allocated costs	(385,028)		(368,314)		(292,195)
Consolidated operating income	\$ 611,371	\$	554,874	\$	540,269
Depreciation:					
Electric Power Infrastructure Solutions	\$ 121,848	\$	108,295	\$	96,300
Underground Utility and Infrastructure Solutions	85,981		90,953		89,046
Corporate and non-allocated costs	17,427		18,859		17,173
Consolidated depreciation	\$ 225,256	\$	218,107	\$	202,519

Quanta decided to pursue an exit of its operations in Latin America. Electric Power Infrastructure Solutions revenues included 6.6 million, \$63.2 million and \$96.1 million related to Latin American operations for the years ended December 31, 2020, 2019 and 2018. Latin American revenues for the year ended December 31, 2019 reflect the reversal of \$48.8 million of revenues in connection with the terminated telecommunications project in Peru, a portion of which related to prior periods. Electric Power Infrastructure Solutions operating income included \$74.0 million, \$85.7 million and \$8.1 million of operating losses related to Latin American operations for the years ended December 31, 2020, 2019 and 2018. Included in the Latin American operating loss for the year ended December 31, 2019 was a \$79.2 million charge associated with the termination of the large telecommunications project in Peru, which included the \$48.8 million decrease in revenues described above and a \$30.4 million increase in cost of services. See *Legal Proceedings — Peru Project Dispute* in Note 14 for additional information on this matter.

Separate measures of Quanta's assets and cash flows by reportable segment, including capital expenditures, are not produced or utilized by management to evaluate segment performance. Quanta's fixed assets, which are held at the operating unit level, include operating machinery, equipment and vehicles, office equipment, buildings and leasehold improvements, and are used on an interchangeable basis across its reportable segments. As such, for reporting purposes, total depreciation expense is allocated each quarter among Quanta's reportable segments based on the ratio of each reportable segment's revenue contribution to consolidated revenues.

#### Foreign Operations

During 2020, 2019, and 2018, Quanta derived \$1.58 billion, \$1.92 billion and \$2.60 billion of its revenues from foreign operations. Of Quanta's foreign revenues, 79%, 75% and 76% were earned in Canada during the years ended December 31,



2020, 2019 and 2018. In addition, Quanta held property and equipment of \$336.4 million and \$314.1 million in foreign countries, primarily Canada, as of December 31, 2020 and 2019.

## 16. SUPPLEMENTAL CASH FLOW INFORMATION:

The net effects of changes in operating assets and liabilities, net of non-cash transactions, on cash flows from operating activities are as follows (in thousands):

	Year Ended December 31,					
		2020		2019		2018
Accounts and notes receivable	\$	71,058	\$	(214,580)	\$	(475,919)
Contract assets		153,832		(12,317)		(92,838)
Inventories		9,860		52,168		(28,131)
Prepaid expenses and other current assets		83,518		(60,475)		(40,187)
Accounts payable and accrued expenses and other non-current liabilities		115,569		39,419		247,897
Contract liabilities		(84,370)		174,230		(23)
Other, net <sup>(1)</sup>		(22,098)		(135,250)		(11,332)
Net change in operating assets and liabilities, net of non-cash transactions	\$	327,369	\$	(156,805)	\$	(400,533)

<sup>(1)</sup> The amount for the year ended December 31, 2019 includes the payment of \$7 million of on-demand advance payment bonds and \$25 million of on-demand performance bonds exercised in connection with the terminated telecommunications project in Peru. See *Legal Proceedings — Peru Project Dispute* in Note 14 for additional information on this matter.

Reconciliations of cash, cash equivalents, and restricted cash reported within the consolidated balance sheets that sum to the total of such amounts shown in the statements of cash flows are as follows (in thousands):

			Decem	ber 31	ι,	
	 2020	_	2019		2018	2017
Cash and cash equivalents	\$ 184,620	\$	164,798	\$	78,687	\$ 138,285
Restricted cash included in "Prepaid expenses and other current assets"	1,275		4,026		3,286	5,106
Restricted cash included in "Other assets, net"	913		921		1,283	384
Total cash, cash equivalents, and restricted cash reported in the statements of cash flows	\$ 186,808	\$	169,745	\$	83,256	\$ 143,775

Restricted cash includes any cash that is legally restricted as to withdrawal or usage.

Supplemental cash flow information related to leases is as follows (in thousands):

	Year Ended December 31,		
	 2020		2019
Cash paid for amounts included in the measurement of lease liabilities:			
Operating cash flows from operating leases	\$ (115,597)	\$	(119,357)
Operating cash flows from finance leases	\$ (108)	\$	(64)
Financing cash flows from finance leases	\$ (1,198)	\$	(1,835)
Lease assets obtained in exchange for lease liabilities:			
Operating leases	\$ 69,721	\$	96,550
Finance leases	\$ 1,384	\$	691

Additional supplemental cash flow information is as follows (in thousands):

	Year Ended December 31,						
	-	2020		2019		2018	
Cash (paid) received during the period for -							
Interest paid	\$	(32,142)	\$	(64,805)	\$	(34,935)	
Income taxes paid	\$	(231,186)	\$	(116,467)	\$	(112,895)	
Income tax refunds	\$	18,119	\$	7,474	\$	5,209	

During the year ended December 31, 2020, Quanta contributed certain assets that had a fair value of \$.1 million as partial consideration for the purchase of an investment and recorded a note receivable of \$4.7 million as partial consideration for the sale of another investment. During the year ended December 31, 2018, Quanta entered into a non-cash transaction whereby Quanta accepted title to a marine industrial property appraised at \$6.4 million in exchange for a construction barge.

## ITEM 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure

There have been no changes in or disagreements with accountants on accounting and financial disclosure within the parameters of Item 304(b) of Regulation S-K.

## ITEM 9A. Controls and Procedures

Attached as exhibits to this Annual Report on Form 10-K are certifications of Quanta's Chief Executive Officer and Chief Financial Officer that are required in accordance with Rule 13a-14 of the Securities Exchange Act of 1934, as amended (the Exchange Act). This Item 9A. section includes information concerning the controls and controls evaluation referred to in the certifications, and it should be read in conjunction with the certifications for a more complete understanding of the topics presented.

#### **Evaluation of Disclosure Controls and Procedures**

Our management has established and maintains a system of disclosure controls and procedures that are designed to provide reasonable assurance that information required to be disclosed by us in the reports that we file or submit under the Exchange Act, such as this Annual Report on Form 10-K, is recorded, processed, summarized and reported within the time periods specified in the SEC rules and forms. The disclosure controls and procedures are also designed to provide reasonable assurance that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

As of the end of the period covered by this Annual Report, we evaluated the effectiveness of the design and operation of our disclosure controls and procedures pursuant to Rule 13a-15(b) of the Exchange Act. This evaluation was carried out under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer. Based on this evaluation, these officers have concluded that, as of December 31, 2020, our disclosure controls and procedures were effective to provide reasonable assurance of achieving their objectives.

## **Evaluation of Internal Control over Financial Reporting**

Management's report on internal control over financial reporting can be found in Item 8. *Financial Statements and Supplementary Data* of this Annual Report under the heading *Report of Management* and is incorporated herein by reference. The report of PricewaterhouseCoopers LLP, an independent registered public accounting firm, on the financial statements, and its opinion on the effectiveness of internal control over financial reporting, can also be found in Item 8. *Financial Statements and Supplementary Data* of this Annual Report of the heading *Report of Independent Registered Public Accounting Firm* and is incorporated herein by reference.

There has been no change in our internal control over financial reporting that occurred during the quarter ended December 31, 2020 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

## **Design and Operation of Control Systems**

Our management, including the Chief Executive Officer and Chief Financial Officer, does not expect that our disclosure controls and procedures or our internal control over financial reporting will prevent or detect all errors and all fraud. A control system, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control

system's objectives will be met. The design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Further, because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that misstatements due to error or fraud will not occur or that all control issues and instances of fraud, if any, within the company have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty and breakdowns can occur because of simple errors or mistakes. Controls can be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls is based in part on certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures.

ITEM 9B. Other Information

None.

#### PART III

#### ITEM 10. Directors, Executive Officers and Corporate Governance

The information required by this Item 10 is incorporated by reference to the definitive proxy statement related to our 2021 Annual Meeting of Stockholders, which is to be filed with the SEC pursuant to the Exchange Act within 120 days following the end of our 2020 fiscal year.

## ITEM 11. Executive Compensation

The information required by this Item 11 is incorporated by reference to the definitive proxy statement related to our 2021 Annual Meeting of Stockholders, which is to be filed with the SEC pursuant to the Exchange Act within 120 days following the end of our 2020 fiscal year.

## ITEM 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters

The information required by this Item 12 is incorporated by reference to the definitive proxy statement related to our 2021 Annual Meeting of Stockholders, which is to be filed with the SEC pursuant to the Exchange Act within 120 days following the end of our 2020 fiscal year.

## ITEM 13. Certain Relationships and Related Transactions, and Director Independence

The information required by this Item 13 is incorporated by reference to the definitive proxy statement related to our 2021 Annual Meeting of Stockholders, which is to be filed with the SEC pursuant to the Exchange Act within 120 days following the end of our 2020 fiscal year.

## ITEM 14. Principal Accounting Fees and Services

The information required by this Item 14 is incorporated by reference to the definitive proxy statement related to our 2021 Annual Meeting of Stockholders, which is to be filed with the SEC pursuant to the Exchange Act within 120 days following the end of our 2020 fiscal year.

### PART IV

## ITEM 15. Exhibits and Financial Statement Schedules

The following financial statements, schedules and exhibits are filed as part of this Annual Report on Form 10-K:

(1) Consolidated financial statements. The consolidated financial statements are included in Item 8. Financial Statements and Supplementary Data of this Annual Report on Form 10-K.

(2) Financial statement schedules. All financial statement schedules are omitted because they are not applicable or the required information is shown in the consolidated financial statements or the notes to the consolidated financial statements in Item 8. Financial Statements and Supplementary Data of this Annual Report on Form 10-K.

(3) Exhibits.

## EXHIBIT INDEX

Description

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No

3.1	_	Restated Certificate of Incorporation of Quanta Services, Inc. (previously filed as Exhibit 3.1 to the
		Company's Form 8-K filed March 26, 2019 and incorporated herein by reference)
3.2		Bylaws of Ouanta Services, Inc., as amended and restated December 6, 2018 (previously filed as Exhibit 3.1 to the Company's
		Form 8-K filed December 11, 2018 and incorporated herein by reference)
4.1^	—	Description of Quanta Services, Inc.'s Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934
4.2	_	Form of Common Stock Certificate (previously filed as Exhibit 4.1 to the Company's Registration Statement on Form S-
		1/Amendment No. 2 filed February 9, 1998 and incorporated herein by reference)
4.3		Indenture, dated as of September 22, 2020, between Quanta Services, Inc. and U.S. Bank National Association, as trustee
		(previously filed as Exhibit 4.1 to the Company's Form 8-K filed September 25, 2020 and incorporated herein by reference)

- First Supplemental Indenture, dated as of September 22, 2020, between Quanta Services, Inc. and U.S. Bank National Association, as trustee (previously filed as Exhibit 4.2 to the Company's Form 8-K filed September 25, 2020 and incorporated herein by 44 reference)
- Form of 2.900% Senior Notes due 2030 (previously filed as Exhibit 4.3 to the Company's Form 8-K filed September 25, 2020 and 4.5 incorporated herein by reference)
- Quanta Services, Inc. 2019 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.1 to the Company's Form 8-K filed May 10.1\* 24, 2019 and incorporated herein by reference)
- Form of RSU Award Agreement for awards to employees/consultants pursuant to the 2019 Omnibus Equity Incentive Plan 10.2\*(previously filed as Exhibit 10.2 to the Company's Form 8-K filed May 24, 2019 and incorporated herein by reference)
- Form of RSU Award Agreement for awards to non-employee directors pursuant to the 2019 Omnibus Equity Incentive Plan 10.3\* (previously filed as Exhibit 10.3 to the Company's Form 8-K filed May 24, 2019 and incorporated herein by reference)
- Form of PSU Award Agreement for awards to employees/consultants pursuant to the 2019 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.4 to the Company's Form 8-K filed May 24, 2019 and incorporated herein by reference) 10.4\*
- Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 4.5 to the Company's Form S-8 filed  $10.5^{*}$ May 20, 2011 and incorporated herein by reference)
- Amendment No. 1 to the Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.4 to the Company's Form 10-Q for the quarter ended June 30, 2013 filed August 9, 2013 and incorporated herein by reference) 10.6\*
- Amendment No. 2 to the Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.1 to the Company's Form 10-Q for the quarter ended June 30, 2016 filed August 8, 2016 and incorporated herein by reference) 10.7\*
- 10.8\*Amendment No. 3 to the Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.4 to the Company's Form 8-K filed May 30, 2018 and incorporated herein by reference)
- Amendment No. 4 to the Quanta Services, Inc. 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.6 to the Company's Form 8-K filed March 14, 2019 and incorporated herein by reference) 10.9\*
- 10.10\* Form of Restricted Stock Unit Award Agreement for awards to employees/consultants pursuant to the 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.2 to the Company's Form 8-K filed March 8, 2013 and incorporated herein by reference)
- 10.11\* Form of Restricted Stock Unit Award Agreement for awards to non-employee directors pursuant to the 2011 Omnibus Equity Incentive Plan (Settled in Stock Unless Cash Settlement Elected) (previously filed as Exhibit 10.1 to the Company's Form 10-O for the quarter ended June 30, 2015 filed August 10, 2015 and incorporated herein by reference)
- 10.12\* Form of Performance Unit Award Agreement for awards to employees/consultants pursuant to the 2011 Omnibus Equity Incentive Plan (previously filed as Exhibit 10.2 to the Company's Form 8-K filed March 7, 2014 and incorporated herein by reference)
- Employment Agreement dated September 1, 2016, effective as of March 14, 2016, by and between Quanta Services, Inc. and Earl C. Austin, Jr. (previously filed as Exhibit 10.1 to the Company's Form 8-K filed September 8, 2016 and incorporated herein by 10 13\* reference)

<ul> <li>A. Jensen (previously filed as Exhibit 10.2 to the Company's Form 8-K filed April 2, 2012 and incorporated herein by reference.</li> <li>Employment Agreement dated September 12, 2017, effective as of January 1, 2017, by and between Quanta Services. Inc. Donald C. Gregory (previously filed as Exhibit 10.1 to the Company's Form 10-O for the quarter ended September 30, 2017 November 9, 2017 and incorporated herein by reference.</li> <li>Employment Agreement dated September 12, 2017, effective as of May 15, 2017, by and between Quanta Services. Inc. Donald C. Wavne (previously filed as Exhibit 10.2 to the Company's Form 10-O for the quarter ended September 30, 2017 November 9, 2017 and incorporated herein by reference.</li> <li>Finployment Agreement dated March 31, 2020, effective as of April 1, 2020, by and between Quanta Services. Inc. and Ja Redaie Probat (previously filed as Exhibit 10.1 to the Company's Form 10-O filed May 8, 2020 and incorporated herein reference).</li> <li>Senior Leadership Long-Term Incentive Plan and Quanta Services. Inc. Term Sheet for 2018 Discretionary Plan - Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 2, 2018 and incorporated herein by reference).</li> <li>Ouanta Services. Inc. Term Sheet for 2019 Annual Incentive Plan - Corporate Employees. Quanta Services. Inc. Term Sheet 2019 Senior Leadership Long-Term Incentive Plan and Quanta Services. Inc. Term Sheet 2019 Senior Leadership Long-Term Incentive Plan and Quanta Services. Inc. Term Sheet 2019 Senior Leadership Long-Term Incentive Plan and Quanta Services. Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services. Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services. Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services. Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services. Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta</li></ul>	Exhibit	
<ul> <li>A. Jensen (previously filed as Exhibit 10.2 to the Company's Form 8-K filed April 2, 2012 and incorporated herein by reference.</li> <li>10.15* — Employment Agreement dated September 12, 2017, effective as of January 1, 2017, by and between Quanta Services. Inc. Donald C. Wavne (previously filed as Exhibit 10, 1 to the Company's Form 10-0 for the quarter ended September 30, 2017 November 9, 2017 and incorporated herein by reference)</li> <li>10.16* — Employment Agreement dated September 12, 2017, effective as of May 15, 2017, by and between Quanta Services. Inc. Donald C. Wavne (previously filed as Exhibit 10, 2 to the Company's Form 10-0 for the quarter ended September 30, 2017 November 9, 2017 and incorporated herein by reference)</li> <li>10.17* — Employment Agreement dated March 31, 2020, effective as of April 1, 2020, by and between Quanta Services. Inc. Term Sheet for 2018 Annual Incentive Plan - Corporate Employees, Quanta Services, Inc. Term Sheet for 2018 Senior Leadership Long-Term Incentive Plan and Quanta Services. Inc. Term Sheet for 2018 Senior Leadership Long-Term Incentive Plan and Quanta Services. Inc. Term Sheet for 2019 Discretionary Plan - Employees (previously filed as Exhibit 10, 1 to the Company's Form 8-K filed April 4, 2019 and incorporated herein treference)</li> <li>10.19* — Quanta Services, Inc. Term Sheet for 2019 Annual Incentive Plan and Quanta Services, Inc. Term Sheet for 2019 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet 2019 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet 5019 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term</li></ul>	No.	Description
<ul> <li>Paul C. Gregory (previously filed as Exhibit 10.1 to the Company's Form 10-Q for the quarter ended September 30, 2017. November 9. 2017 and incorporated herein by reference?</li> <li>10.16* — Employment Agreement dated September 12, 2017, effective as of May 15, 2017, by and between Quanta Services. Inc. Donald C. Wavne (previously filed as Exhibit 10.2 to the Company's Form 10-Q filed May 8, 2020 and incorporated herein by reference?</li> <li>10.17* — Employment Agreement dated March 31, 2020, effective as of April 1, 2020, by and between Quanta Services. Inc. and J Redgie Probst (previously filed as Exhibit 10.1 to the Company's Form 10-Q filed May 8, 2020 and incorporated herei reference?</li> <li>10.18* — Quanta Services, Inc. Term Sheet for 2018 Annual Incentive Plan - Corporate Employees. Quanta Services, Inc. Term Sheet 502 (1998) Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for 2019 Discretionary Plan - Employees (previously filed as Exhibit 10.1 to the Company's Form 3-K filed March 14, 2018 and incorporated herein - Employees (previously filed as Exhibit 10.1 to the Company's Form 3-K filed March 14, 2019 and incorporated herein - Employees (previously filed as Exhibit 10.1 to the Company's Form 3-K filed March 14, 2019 and incorporated herein - Employees (previously filed as Exhibit 10.1 to the Company's Form 3-K filed March 14, 2019 and incorporated herein - Employees (previously filed as Exhibit 10.1 to the Company's Form 3-K filed March 14, 2019 and incorporated herein - Employees (previously filed as Exhibit 10.1 to the Company's Form 3-K filed March 14, 2019 and incorporated herein - Employees (previously filed as Exhibit 10.1 to the Company's Form 3-K filed March 14, 2019 and incorporated herein - Employees (previously filed as Exhibit 10.1 to the Company's Form 3-K filed March 14, 2019 and incorporated herein - Employees (previously filed as Exhibit 10.2 to the Company's Form 3-K filed March 14, 2017 and incorporated herein - Employee</li></ul>	10.14*	<ul> <li>Employment Agreement dated March 29, 2012, effective as of May 17, 2012, by and between Quanta Services, Inc. and Derrick</li> <li>A. Jensen (previously filed as Exhibit 10.2 to the Company's Form 8-K filed April 2, 2012 and incorporated herein by reference)</li> </ul>
<ul> <li>Donald C. Wavite (previously filed as Exhibit 10.2 to the Company's Form 10-0 for the quarter ended September 30.2017. November 9, 2017 and incorporated herein by reference)</li> <li>10.17* — Employment Agreement dated March 31, 2020, effective as of April 1, 2020, by and between Quanta Services. Inc. and Ja Redgie Probst (previously filed as Exhibit 10.1 to the Company's Form 10-0 filed May 8, 2020 and incorporated herein reference).</li> <li>10.18* — Quanta Services. Inc. Term Sheet for 2018 Annual Incentive Plan - Corporate Employees, Quanta Services, Inc. Term Sheet for 2019 Nanual Incentive Plan - Corporate Employees, Quanta Services, Inc. Term Sheet for 2019 Annual Incentive Plan - Corporate Employees, Quanta Services, Inc. Term Sheet for 2019 Annual Incentive Plan - Corporate Employees, Quanta Services, Inc. Term Sheet for 2019 Discretionary Plan - Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 14, 2019 and incorporated herein reference)</li> <li>10.20* — Quanta Services, Inc. Term Sheet for 2020 Annual Incentive Plan - Corporate Employees, Quanta Services, Inc. Term Sheet 50:200 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for 2019 Discretionary Plan - Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed Anril 1, 2020 and incorporated herein by reference)</li> <li>10.20* — Quanta Services, Inc. Term Sheet for 2020 Annual Incentive Plan - Corporate Employees, Quanta Services, Inc. Term Shee 2020 Senior Leadership Long-Term Incentive Plan - Corporate Senton Setting 10, 11, 11, 12, 11, 12, 12, 12, 12, 12, 12</li></ul>	10.15*	— Employment Agreement dated September 12, 2017, effective as of January 1, 2017, by and between Quanta Services, Inc. and Paul C. Gregory (previously filed as Exhibit 10.1 to the Company's Form 10-Q for the quarter ended September 30, 2017 filed November 9, 2017 and incorporated herein by reference)
<ul> <li>Redgic Probst (previously filed as Exhibit 10.1 to the Company's Form 10-O filed May 8, 2020 and incorporated herei reference)</li> <li>10.18* — Quanta Services, Inc. Term Sheet for 2018 Annual Incentive Plan - Corporate Employees, Quanta Services, Inc. Terms Shee 2018 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for 2018 Discretionary Plan - Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 12, 2018 and incorporated herein by refer 2019 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for 2019 Annual Incentive Plan – Corporate Employees, Quanta Services, Inc. Term Sheet Sortes (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 14, 2019 and incorporated herein reference)</li> <li>10.20* — Quanta Services, Inc. Term Sheet for 2020 Annual Incentive Plan – Corporate Employees, Quanta Services, Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet 10.21*</li> <li>10.21* — Director Compensation Summary, revised as of May 27, 2020 and effective as Or May 28, 2020 (previously filed as Exhibit 10.1 to the Company's Form 8-K filed April 1.2020 and incorporated herein by reference)</li> <li>10.22* — Quanta Services, Inc. Non-Employee Director Defered Compensation Plan dated effective January 1.2017 (previously filed Exhibit 10.25 to the Company's Form 8-K filed April 1.2017 and incorporated herein by reference)</li> <li>10.24* — Guanta Services, Inc., Nonqualified Deferred Compensation Plan, as restated effective January 1.2017, including the Nonqual Deferred Compensation Plan, Acted Senibit 10.1 to the Company's Form 8-K filed April 1.2017 and incorporated herein by referenc</li></ul>	10.16*	<ul> <li>Employment Agreement dated September 12, 2017, effective as of May 15, 2017, by and between Quanta Services, Inc. and Donald C. Wayne (previously filed as Exhibit 10.2 to the Company's Form 10-Q for the quarter ended September 30, 2017 filed November 9, 2017 and incorporated herein by reference)</li> </ul>
<ul> <li>2018 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for 2018 Discretionary Plan - Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 2, 2018 and incorporated herein by refer 2019 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for 2019 Discretionary Plan - Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 14, 2019 and incorporated herein reference)</li> <li>10.20* — Quanta Services, Inc. Term Sheet for 2020 Annual Incentive Plan - Corporate Employees, Quanta Services, Inc. Term Sheet 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for Discretionary Plan -All Emplo (previously filed as Exhibit 10.1 to the Company's Form 8-K filed April 1, 2020 and incorporated herein by reference)</li> <li>10.20* — Quanta Services, Inc. Term Sheet for 2020 Annual Incentive Plan - Corporate Employees, Quanta Services, Inc. Term Sheet 500 (Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for Discretionary Plan -All Emplo (previously filed as Exhibit 10.1 to the Company's Form 8-K filed April 1, 2020 and incorporated herein by reference)</li> <li>10.21* — Director Compensation Summary, revised as of May 27, 2020 and effective as of May 28, 2020(previously filed as Exhibit 10.21* (previously filed as Exhibit 10.25* (previously filed Deferred Compensation Plan, as restated effective January 1, 2017 (previously filed as Exhibit 10.25* (previously filed Deferred Compensation Plan, Agreement (previously filed as Exhibit 10.27 to the Company's Form 8-K filed March 1, 2017 and incorporated herein by reference)</li> <li>10.24* — Form of Amended and Restated Indemnity Agreement (previously filed as Exhibit 10.1 to the Company's Form 8-K for the eard berein by reference)</li> <li>10.25 — Fourth Amended and Restated Credit Agreement, dated as of Juenta Services, Inc., identified therein as Quaran Bank of America, N.A.</li></ul>	10.17*	<ul> <li>Employment Agreement dated March 31, 2020, effective as of April 1, 2020, by and between Ouanta Services, Inc. and James Redgie Probst (previously filed as Exhibit 10.1 to the Company's Form 10-Q filed May 8, 2020 and incorporated herein by reference)</li> </ul>
<ul> <li>2019 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for 2019 Discretionary Plan – Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 14, 2019 and incorporated herein reference)</li> <li>10.20* — Quanta Services, Inc. Term Sheet for 2020 Annual Incentive Plan – Corporate Employees, Quanta Services, Inc. Term Sheet for 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for Discretionary Plan – All Employee (as Exhibit 10.1 to the Company's Form 8-K filed April 1, 2020 and incorporated herein by reference)</li> <li>10.21* — Director Compensation Summary, revised as of May 27, 2020 and effective as of May 28, 2020(previously filed as Exhibit 10 to the Company's Form 8-K filed April 1, 2020 and incorporated herein by reference)</li> <li>10.22* — Quanta Services, Inc. Non-Employee Director Deferred Compensation Plan dated effective January 1, 2017 (previously filed Exhibit 10.25 to the Company's Form 10-K for the vear ended December 31, 2016 filed March 1, 2017 and incorporated herein trefference)</li> <li>10.23* — Quanta Services, Inc. Nongualified Deferred Compensation Plan, as restated effective January 1, 2017, including the Nongual Deferred Compensation Plan, as restated effective January 1, 2017, including the Nongual Deferred Compensation Plan, as restated effective January 1, 2017, including the Nongual Deferred Compensation Plan, as restated effective January 1, 2017, including the Nongual Deferred Compensation Plan, as of December 31, 2016 filed March 1, 2017 and incorporated herein by reference)</li> <li>10.24* — Form of Amended and Restated Indemnity Agreement (previously filed as Exhibit 10.1 to the Company's Form 8-K filed December 11, 2018 and incorporated herein by reference)</li> <li>10.25 — Fourth Amended and Restated Credit Agreement, dated as of Ducember 23, 2015, and incorporated herein by reference)</li> <li>10.26 — First Amendment to Fourth Amended and Resta</li></ul>	10.18*	— Quanta Services, Inc. Term Sheet for 2018 Annual Incentive Plan - Corporate Employees, Quanta Services, Inc. Terms Sheet for 2018 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for 2018 Discretionary Plan - All Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 2, 2018 and incorporated herein by reference)
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<ul> <li>the Company's Form 8-K filed June 2, 2020 and incorporated herein by reference)</li> <li>10.22* — Quanta Services, Inc. Non-Employee Director Deferred Compensation Plan dated effective January 1, 2017 (previously file Exhibit 10.25 to the Company's Form 10-K for the year ended December 31, 2016 filed March 1, 2017 and incorporated herei reference)</li> <li>10.23* — Quanta Services, Inc. Nonqualified Deferred Compensation Plan, as restated effective January 1, 2017, including the Nonqual Deferred Compensation Plan Adoption Agreement (previously filed as Exhibit 10.27 to the Company's Form 10-K for the ended December 31, 2016 filed March 1, 2017 and incorporated herei reference)</li> <li>10.24* — Form of Amended and Restated Indemnity Agreement (previously filed as Exhibit 10.1 to the Company's Form 8-K in December 11, 2018 and incorporated herein by reference)</li> <li>10.25 — Fourth Amended and Restated Credit Agreement, dated as of December 18, 2015, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the other Lenders p thereto (previously filed as Exhibit 99.1 to the Company's Form 8-K filed December 23, 2015 and incorporated herein reference)</li> <li>10.26 — First Amendment to Fourth Amended and Restated Credit Agreement dated as of June 27, 2016, among Quanta Services, Inc. certain subsidiaries of Quanta Services, Inc. identified therein Guarantors, Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the other Guarantors, Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the other Guarantors, Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the other forence)</li> <li>10.27 — Second Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 31, 2017, among Quanta Services, Inc. and Borrovers, certain subsidiaries of Quanta Services, Inc</li></ul>	10.20*	<ul> <li>— Quarta Services, Inc. Term Sheet for 2020 Annual Incentive Plan – Corporate Employees, Quanta Services, Inc. Term Sheet for 2020 Senior Leadership Long-Term Incentive Plan and Quanta Services, Inc. Term Sheet for Discretionary Plan –All Employees (previously filed as Exhibit 10.1 to the Company's Form 8-K filed April 1, 2020 and incorporated herein by reference)</li> </ul>
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<ul> <li>December 11, 2018 and incorporated herein by reference)</li> <li>10.25 — Fourth Amended and Restated Credit Agreement, dated as of December 18, 2015, among Quanta Services, Inc. and cers subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guaran Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the other Lenders p thereto (previously filed as Exhibit 99.1 to the Company's Form 8-K filed December 23, 2015 and incorporated hereir reference)</li> <li>10.26 — First Amendment to Fourth Amended and Restated Credit Agreement dated as of June 27, 2016, among Quanta Services, Inc. certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein Guarantors, Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the o Lenders party thereto (previously filed as Exhibit 10.2 to the Company's Form 10-Q filed August 8, 2016 and incorporated herein by reference)</li> <li>10.27 — Second Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 31, 2017, among Quanta Services, Inc. as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein by reference)</li> <li>10.27 — Second Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 31, 2017, among Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified the serving function and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified the by reference)</li> <li>10.27 — Second Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 31, 2017, among Quanta Services, Inc. as Borrowers, certain subsidiaries of Quanta Services, Inc. identified the as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line</li></ul>	10.23*	<ul> <li><u>Quanta Services, Inc. Nonqualified Deferred Compensation Plan, as restated effective January 1, 2017, including the Nonqualified Deferred Compensation Plan Adoption Agreement (previously filed as Exhibit 10.27 to the Company's Form 10-K for the year ended December 31, 2016 filed March 1, 2017 and incorporated herein by reference)</u></li> </ul>
<ul> <li>subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guaran Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the other Lenders p thereto (previously filed as Exhibit 99.1 to the Company's Form 8-K filed December 23, 2015 and incorporated herein reference)</li> <li>10.26 — First Amendment to Fourth Amended and Restated Credit Agreement dated as of June 27, 2016, among Quanta Services, Inc., certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc., identified therein Guarantors, Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the o Lenders party thereto (previously filed as Exhibit 10.2 to the Company's Form 10-Q filed August 8, 2016 and incorporated herein by reference)</li> <li>10.27 — Second Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 31, 2017, among Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified the by reference)</li> <li>10.27 — Second Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 31, 2017, among Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified the as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and Issuers party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed November 6, 2017 and incorporated by Services party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed November 6, 2017 and incorporated by Services party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed November 6, 2017 and incorporated by Services party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed November 6, 2017 and incorporated by Services party thereto (previously filed as Exhibit 10</li></ul>	10.24*	- Form of Amended and Restated Indemnity Agreement (previously filed as Exhibit 10.1 to the Company's Form 8-K filed December 11, 2018 and incorporated herein by reference)
<ul> <li>certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therei Guarantors, Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the o Lenders party thereto (previously filed as Exhibit 10.2 to the Company's Form 10-Q filed August 8, 2016 and incorporated he by reference)</li> <li>10.27 — Second Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 31, 2017, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified the as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and Issuers party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed November 6, 2017 and incorporated here.)</li> </ul>	10.25	Fourth Amended and Restated Credit Agreement, dated as of December 18, 2015, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the other Lenders party thereto (previously filed as Exhibit 99.1 to the Company's Form 8-K filed December 23, 2015 and incorporated herein by reference)
Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified the as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and Issuers party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed November 6, 2017 and incorporated here.	10.26	— First Amendment to Fourth Amended and Restated Credit Agreement dated as of June 27, 2016, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, Bank of America, N.A., as Administrative Agent, Domestic Swing Line Lender and an L/C Issuer, and the other Lenders party thereto (previously filed as Exhibit 10.2 to the Company's Form 10-Q filed August 8, 2016 and incorporated herein by reference)
	10.27	— Second Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 31, 2017, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and L/C Issuers party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed November 6, 2017 and incorporated herein by reference)

10.28 — Third Amendment to Fourth Amended and Restated Credit Agreement, dated as of August 24, 2018, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and L/C Issuers party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed October 15, 2018 and incorporated herein by reference)

Exhibit	
No.	Description
10.29	— Fourth Amendment to Fourth Amended and Restated Credit Agreement, dated as of October 10, 2018, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and L/C Issuers party thereto (previously filed as Exhibit 10.2 to the Company's Form 8-K filed October 15, 2018 and incorporated herein by reference)
10.30	— Incremental Term Loan Amendment and Fifth Amendment to Fourth Amended and Restated Credit Agreement and Omnibus Amendment to Loan Documents, dated as of September 6, 2019, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the L/C Issuers party thereto (previously filed as Exhibit 10.6 to the Company's Form 8-K filed September 9, 2019 and incorporated herein by reference)
10.31	— Incremental Revolving Credit Increase Agreement and Lender Joinder Agreement, dated as of September 12, 2019, among Quanta Services, Inc., and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc., identified therein as Guarantors, BNP Paribas, the Swing Line Lenders and L/C Issuers party thereto and Bank of America, N.A., as Administrative Agent (previously filed as Exhibit 10.4 to the Company's Form 10-Q filed November 1, 2019 and incorporated herein by reference)
10.32	— Sixth Amendment to Fourth Amended and Restated Credit Agreement, dated as of September 22, 2020, among Quanta Services, Inc. and certain subsidiaries of Quanta Services, Inc., as Borrowers, certain subsidiaries of Quanta Services, Inc. identified therein as Guarantors, the lenders party thereto, Bank of America, N.A., as Administrative Agent, and the Swing Line Lenders and L/C Issuers party thereto (previously filed as Exhibit 10.1 to the Company's Form 8-K filed September 25, 2020 and incorporated herein by reference)
10.33	— Underwriting, Continuing Indemnity and Security Agreement dated as of March 14, 2005 by Quanta Services, Inc. and the subsidiaries and affiliates of Quanta Services, Inc. identified therein, in favor of Federal Insurance Company (previously filed as Exhibit 10.1 to the Company's Form 8-K filed March 16, 2005 and incorporated herein by reference).
10.34	— Joinder Agreement and Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of November 28, 2006, among American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., The Insurance Company of the State of Pennsylvania, Federal Insurance Company, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 99.1 to the Company's Form 8-K filed December 4, 2006 and incorporated herein by reference)
10.35	— Second Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of January 9, 2008, among American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., The Insurance Company of the State of Pennsylvania, Federal Insurance Company, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 10.34 to the Company's Form 10-K for the year ended December 31, 2007 filed February 29, 2008 and incorporated herein by reference).
10.36	— Joinder Agreement and Third Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of December 19, 2008, among American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., The Insurance Company of the State of Pennsylvania, Federal Insurance Company, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 10.30 to the Company's Form 10-K for the year ended December 31, 2011 filed February 29, 2012 and incorporated herein by reference)
10.37	— Joinder Agreement and Fourth Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of March 31, 2009, among American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., The Insurance Company of the State of Pennsylvania, Liberty Mutual Insurance Company, Liberty Mutual Fire Insurance Company, Safeco Insurance Company of America, Federal Insurance Company, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 99.1 to the Company's Form 8-K filed April 1, 2009 and incorporated herein by reference)
10.38	— Joinder Agreement and Fifth Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of May 17, 2012, among Federal Insurance Company, Liberty Mutual Insurance Company, Liberty Mutual Fire Insurance Company, Safeco Insurance Company of America, American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, PA, The Insurance Company of the State of Pennsylvania, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 10.2 to the Company's Form 10-Q for the quarter ended June 30, 2012 filed August 8, 2012 and incorporated herein by reference)

Exhibit	
No.	Description
10.39	— Sixth Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of December 3, 2012, among Federal Insurance Company, American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, PA, The Insurance Company of the State of Pennsylvania, Liberty Mutual Insurance Company, Liberty Mutual Fire Insurance Company, Safeco Insurance Company of America, Quanta Services, Inc., and the other Indemnitors identified therein (previously filed as Exhibit 10.32 to the Company's Form 10-K for the year ended December 31, 2012 filed March 1, 2013 and incorporated herein by reference)
10.40	— Seventh Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of August 4, 2015, among Federal Insurance Company; American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, PA and The Insurance Company of the State of Pennsylvania; Liberty Mutual Insurance Company, Liberty Mutual Fire Insurance Company and Safeco Insurance Company of America; Quanta Services, Inc., the other Indemnitors identified therein; and the Stallone Companies (previously filed as Exhibit 10.2 to the Company's Form 10-Q for the quarter ended June 30, 2018 filed August 7, 2018 and incorporated herein by reference)
10.41	— Eighth Amendment to Underwriting, Continuing Indemnity and Security Agreement, dated as of September 22, 2020, among Federal Insurance Company, American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., The Insurance Company of the State of Pennsylvania, Liberty Mutual Insurance Company, Liberty Mutual Fire Insurance Company, Safeco Insurance Company of America, Quanta Services, Inc. and the other Indemnitors identified therein (previously filed as Exhibit 10.2 to the Company's Form 8-K filed September 25, 2020 and incorporated herein by reference)
21.1	- <u>Subsidiaries</u>
23.1	- <u>Consent of PricewaterhouseCoopers LLP</u>
31.1	<ul> <li>Certification of Chief Executive Officer pursuant to Rule 13a-14(a) of the Exchange Act, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</li> </ul>
31.2	<ul> <li>Certification of Chief Financial Officer pursuant to Rule 13a-14(a) of the Exchange Act, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</li> </ul>
32.1†	<ul> <li>Certification of Chief Executive Officer and Chief Financial Officer pursuant to Rule 13a-14(b) of the Exchange Act and 18 U.S.C.</li> <li>Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002</li> </ul>
101.INS^	— The following financial statements from the Company's Annual Report on Form 10-K for the year ended December 31, 2020, formatted in Inline XBRL: (i) Consolidated Balance Sheets, (ii) Consolidated Statements of Operations, (iii) Consolidated Statements of Comprehensive Income, (iv) Consolidated Statements of Cash Flows, (v) Consolidated Statements of Equity and (vi) Notes to Consolidated Financial Statements, tagged as blocks of text and with detailed tags
104*	— The cover page from the Company's Appual Report on Form 10-K for the year ended December 31, 2020, formatted in Inline

Annual Report on Form 10-K for the year ended December 31, 2020, formatted in Inline 104 XBRL (included as Exhibit 101)

Management contracts or compensatory plans or arrangements Filed with this Annual Report on Form 10-K \*

Furnished with this Annual Report on Form 10-K t

# ITEM 16. Form 10-K Summary.

Not applicable.

## SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, Quanta Services, Inc. has duly caused this Report to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Houston, State of Texas, on February 26, 2021.

## QUANTA SERVICES, INC.

By:

/s/ EARL C. AUSTIN, JR.

Earl C. Austin, Jr. President, Chief Executive Officer and Chief Operating Officer

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Earl C. Austin, Jr. and Derrick A. Jensen, each of whom may act without joinder of the other, as their true and lawful attorneys-in-fact and agents, each with full power of substitution and resubstitution, for such person and in his or her name, place and stead, in any and all capacities, to sign any and all amendments to this Annual Report on Form 10-K, and to file the same, with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or their substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Exchange Act of 1934, this Report has been signed by the following persons in the capacities indicated on February 26, 2021.

Signature	Title
/s/ EARL C. AUSTIN, JR. Earl C. Austin, Jr.	President, Chief Executive Officer, Chief Operating Officer and Director (Principal Executive Officer)
/s/ DERRICK A. JENSEN Derrick A. Jensen	Chief Financial Officer (Principal Financial Officer)
/s/ JERRY K. LEMON Jerry K. Lemon	Chief Accounting Officer (Principal Accounting Officer)
/s/ DOYLE N. BENEBY Doyle N. Beneby	Director
/s/ J. MICHAL CONAWAY J. Michal Conaway	Director
/s/ VINCENT D. FOSTER Vincent D. Foster	Director
/s/ BERNARD FRIED Bernard Fried	Director
/s/ WORTHING F. JACKMAN Worthing F. Jackman	Director
/s/ DAVID M. McCLANAHAN David M. McClanahan	Chairman of the Board of Directors
/s/ MARGARET B. SHANNON Margaret B. Shannon	Director
/s/ PAT WOOD, III Pat Wood, III	Director
/s/ MARTHA B. WYRSCH Martha B. Wyrsch	Director

## Exhibit 4.1

## Description of Securities Registered Pursuant to Section 12 of the Securities Exchange Act of 1934

As of the end of the fiscal year covered by the Annual Report on Form 10-K of which this exhibit is part, Quanta Services, Inc., a Delaware corporation ("Quanta," "we," "our" and "us"), had one class of securities registered under Section 12 of the Securities Exchange Act of 1934, as amended (the "Exchange Act"): common stock, par value \$0.00001 per share ("common stock"). The following contains a description of our common stock, as well as certain related additional information. This description is a summary only and does not purport to be complete. We encourage you to read the complete text of Quanta's restated certificate of incorporation (the "certificate of incorporation") and amended and restated bylaws (the "bylaws"), which we have filed or incorporated by reference as exhibits to Quanta's Annual Report on Form 10-K. References to "stockholders" refer to holders of our common stock, unless the context otherwise requires.

## General

Under our certificate of incorporation, we have the authority to issue 610,000,000 shares of capital stock, consisting of 600,000,000 shares of our common stock and 10,000,000 shares of preferred stock, par value \$0.00001 per share ("preferred stock"). All of the outstanding shares of common stock are fully paid and nonassessable.

#### Voting Rights

Our stockholders are entitled to one vote for each share of common stock held on all matters voted upon by stockholders, including the election of directors.

Under our bylaws, when a quorum is present at any meeting of our stockholders, the affirmative vote of a majority of the votes cast affirmatively or negatively on a matter will be the act of the stockholders, unless the question is one upon which by express provision of law, our certificate of incorporation, or our bylaws, a different vote is required or unless under the rules and regulations of any stock exchange applicable to us or pursuant to any regulation applicable to us or our securities, a different vote is provided, in which case such express provision will govern and control the decision of such question.

Under our bylaws, in connection with an election of directors, each nominee for election in an uncontested election is elected by the vote of the majority of votes cast with respect to such director at any meeting of our stockholders at which a quorum is present, meaning that the number of shares voted for such director must exceed the number of shares voted against such director; provided, however, that in all elections other than uncontested elections, directors will be elected by a plurality of the votes cast at any meeting of the stockholders. If directors are to be elected by a plurality of the votes cast, stockholders will not be permitted to vote against a nominee. Holders of our common stock have no right to cumulate their votes in an election of directors.

## Dividend Rights

Subject to the preferred rights of the holders of shares of any class or series of our preferred stock, holders of our common stock are entitled to receive out of our funds legally available therefor, such dividends (payable in cash, stock or otherwise) as Quanta's board of directors (the "board of directors") may from time to time determine, payable to stockholders

of record on such dates. The declaration and amount of future dividends is at the discretion of our board of directors and will depend on, among other factors, our financial condition, results of operations, cash flows, current and anticipated expansion plans, requirements under Delaware law and other factors that our board of directors may deem relevant.

## Liquidation Rights

Our stockholders are entitled to share equally and ratably in our net assets upon a liquidation or dissolution after the payment or provision for all liabilities, subject to any preferential liquidation rights of any preferred stock that at the time may be outstanding.

#### No Preemptive, Conversion or Redemption Rights

Our stockholders have no preemptive, subscription, conversion or redemption rights, and are not subject to further calls or assessments by us. There are no sinking fund provisions applicable to our common stock.

## Listing

Our common stock is traded on the New York Stock Exchange under the symbol "PWR."

#### Effects of Certain Provisions of Our Certificate of Incorporation and Bylaws and Delaware Law

Our certificate of incorporation, our bylaws and Delaware law contain provisions that may deter or render more difficult proposals to acquire control of Quanta, including proposals a stockholder might consider to be in his or her best interest, impede or delay a change in membership of the board of directors and make removal of our management more difficult.

## Action by Stockholders Without a Meeting

Our certificate of incorporation provides that any action to be taken by our stockholders must be effected at an annual or special meeting and may not be effected by any consent in writing of such stockholders.

### Special Meetings of Stockholders

Our certificate of incorporation and bylaws provide that special meetings of stockholders may be called at any time only by the chairman of the board of directors and shall be called within ten days after receipt of the written request of the board of directors, pursuant to a resolution of a majority of the board of directors to call a special meeting. Holders of our common stock do not have the right to call a special meeting of stockholders. The business transacted at a special meeting of stockholders is confined to the purpose stated in the notice of the meeting.

#### Advance Notice Provisions

Our bylaws provide that proposals and director nominations made by a stockholder to be voted upon at any annual meeting or special meeting of the stockholders may be considered only if such proposal or director nomination is properly brought before such meeting. In order for any matter, to be considered properly brought before such meeting, a stockholder must comply with certain requirements regarding advance notice to us.

Generally, in the case of an annual meeting, stockholders must deliver to the Secretary of Quanta a written notice between 90 and 120 days before the anniversary date of our immediately preceding annual meeting of the stockholders. In the case of an annual meeting that is more than 30 days before or more than 30 days after such anniversary date, or in the event that no annual meeting was held in the preceding year, stockholders must deliver such notice between 90 and 120 days prior to such annual meeting or within 10 days following the day on which public announcement of the date of such meeting is first made by us. In no event will the adjournment of an annual meeting, or postponement of an annual meeting for which notice was given, or the public announcement of such adjournment or postponement, commence a new time period for any stockholder to give notice.

To be in proper form, the notice must include, among other things, the name and address of the stockholder, certain information regarding the shares owned by the stockholder, a brief description of the business desired to be brought by the stockholder at the meeting, the text of the proposal or business, the reasons for conducting such business at the meeting and any material interest in such business of the stockholder and the beneficial owner, if any, on whose behalf the proposal is made. To nominate directors, the notice must include, as to each person whom the stockholder proposes to nominate for election or re-election as a director, all information relating to such person that would be required to be disclosed in solicitations of proxies for election of directors in an election contest, or is otherwise required, in each case pursuant to Regulation 14A under the Exchange Act, as well as representations regarding whether a director nominee is a party to any agreement with respect to voting or compensation or that might limit such director nominee's exercise of fiduciary duties, among other things. Additionally, the notice must include such other information about the stockholder, each proposal and nominee as required by the Securities and Exchange Commission.

Director nominations and stockholder proposals that are late or that do not include all required information may be rejected. This could prevent stockholders from bringing certain matters before a meeting, including making nominations for directors.

## Vacancies on the Board of Directors

Our bylaws provide that, subject to the rights of the holders of any outstanding series of preferred stock and unless otherwise required by law or resolution of our board of directors, vacancies on the board of directors arising through death, resignation, retirement, disqualification or removal, an increase in the number of directors or otherwise may be filled by a majority of the directors then in office, though less than a quorum, or a successor or successors may be chosen at a special meeting of the stockholders called for that purpose.

#### **Issuance of Preferred Stock**

Our certificate of incorporation authorizes up to 10,000,000 shares of preferred stock. Preferred stock may be issued in one or more series as may be determined from time to time by the board of directors, and the board of directors, without further approval of the stockholders, is authorized to fix by resolution or resolutions providing for the issue of each such series the voting powers, designations, preferences, and relative, participating, optional, redemption, conversion, exchange or other special rights qualifications, limitations or restrictions of such series, and the number of shares in each series, to the fullest extent permitted by law. The purpose of authorizing the board of directors to determine these rights, preferences, privileges and restrictions is to eliminate delays associated with a stockholder vote on specific issuances. The issuance of preferred stock, while providing flexibility in connection with possible acquisitions and other corporate purposes, could, among other things,

adversely affect the voting power of our then-existing stockholders and, under certain circumstances, make it more difficult for a third party to gain control of Quanta.

## **Delaware Business Combination Statute**

We are a Delaware corporation and are subject to Section 203 of the General Corporation Law of the State of Delaware (the "DGCL"). Section 203 of the DGCL prohibits a "business combination" between a corporation and an "interested stockholder" within three years of the time the stockholder became an interested stockholder, unless:

- prior to such time, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder;
- upon consummation of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the
  voting stock of the corporation outstanding at the time the transaction commenced, exclusive of shares owned by directors who are also officers and by certain
  employee stock plans; or
- at or subsequent to such time, the business combination is approved by the board of directors and authorized at a stockholders' meeting by at least two-thirds of the outstanding voting stock that is not owned by the interested stockholder.

Generally, a "business combination" includes a merger, asset or stock sale, or other transaction resulting in a financial benefit to the interested stockholder. Generally, an "interested stockholder" is a person who owns, individually or with or through other persons, 15% or more of the corporation's outstanding voting stock.

### Forum Selection

Our bylaws provide that, unless we consent in writing to the selection of an alternative forum, and to the fullest extent permitted by law, the sole and exclusive forum for certain legal matters will be the Court of Chancery in the State of Delaware (or, if the Court of Chancery does not have jurisdiction, the federal district court for the District of Delaware). This provision applies to (i) any derivative action or proceeding brought on behalf of Quanta, (ii) any action asserting a claim of breach of a fiduciary duty owed by any of our present or former directors, officers or employees to Quanta or our stockholders, (iii) any action asserting a claim arising pursuant to any provision of the DGCL, (iv) any action asserting a claim arising pursuant to any provision of the certificate of incorporation or bylaws (as either may be amended from time to time), or (v) any action asserting a claim governed by the internal affairs doctrine.

#### **Transfer Agent and Registrar**

The transfer agent and registrar for our common stock is American Stock Transfer & Trust Company, LLC.

## Quanta Services, Inc. Subsidiaries List

The following is a list of the significant subsidiaries of Quanta Services, Inc. showing the place of incorporation or organization and the names under which each subsidiary does business (in italics). The names of certain subsidiaries may be omitted as such subsidiaries, considered as a single subsidiary, would not constitute a significant subsidiary.

Subsidiary and Names Under Which Subsidiary Does Business	Jurisdiction of Incorporation or Organization
1 Diamond, LLC Cutting Technology - 1 Diamond, LLC	Delaware
1Diamond AS	Norway
618232 Alberta Ltd. ValAir	Alberta
8246408 Canada Inc. <i>G-TEK</i> <i>G-Vac</i>	Quebec
Advanced Electric Systems, LLC Advanced Utility Testing & Maintenance, LLC Utility Testing & Maintenance, LLC	Delaware
Alexander Publications, LLC	California
Allteck GP Ltd.	British Columbia
Allteck Limited Partnership	British Columbia
Apprenticeship Programs, Inc.	Idaho
Arnett & Burgess Oil Field Construction Limited	Alberta
Arnett & Burgess Pipeliners (Rockies) LLC	Delaware
Arnett & Burgess Pipeliners Ltd.	Alberta
B&N Clearing and Environmental, LLC	Delaware
Banister Pipelines Constructors GP Ltd.	British Columbia
Banister Pipelines Limited Partnership	British Columbia
Brent Woodward, Inc.	Oregon
Brink Constructors, Inc. Brink Constructors, Inc. A Corporation Of South Dakota	South Dakota
Canadian Utility Construction GP Ltd.	British Columbia
Canadian Utility Construction Limited Partnership	British Columbia
Catalyst Changers Inc.	Alberta

Subsidiary and Names Under Which Subsidiary Does Business	Jurisdiction of Incorporation or Organization
Cat-Spec, Ltd. Cat Spec, Ltd Cat Spec, Ltd Cat Spec, Ltd. Cat Spec, Ltd. L.P. Cat Spec, Ltd. L.P. Cat Spec., Ltd. LP Cat-Spec Limited Partnership Cat-Spec Ltd, LP CAT-SPEC, Limited Partnership CAT-SPEC, Limited Partnership (Regd Name) CAT-SPEC, Limited Partnership (Regd Name) CAT-SPEC, Ltd. (Part Name) Cat-Spec, Ltd. (Domestic limited Partnership) Cat-Spec, Ltd. Limited Partnership Cat-Spec, Ltd., L.P. Cat-Spec, Ltd., L.P. Cat-Spec, Ltd., L.P. (Used in VA By: Cat-Spec, Ltd.)	Texas
Citadel Industrial Services, Ltd. Citadel Industrial Services, L.P. Citadel Industrial Services, Ltd. Limited Partnership Citadel Industrial Services, Ltd., L.P.	Texas
Coe Drilling Pty Ltd.	Australia
Conam Construction Co.	Texas
Consolidated Power Projects Australia Pty Ltd	Australia
Conti Communications, Inc.	Delaware
Crux Subsurface Canada Ltd.	British Columbia
Crux Subsurface, Inc.	Delaware
Dacon Corporation	Delaware
Dashiell Corporation Dashiell (DE) Corporation (Dashiell Corporation) Dashiell Corporation DBA Dashiell (DE) Corporation Dacon Corporation	Delaware
Dashiell MI Corporation	Delaware
Digco Utility Construction, L.P. Digco Utility Construction Limited Partnership	Delaware
Dorado Specialty Services, Ltd. Dorado Specialty Services, L.P. Dorado Specialty Services, Ltd. L.P. Dorado Specialty Services, Ltd. Limited Partnership Dorado Specialty Services. Ltd., L.P.	Texas
EHV Power ULC	British Columbia
Elite Fabrication, Ltd. Elite Fabrication, LP	Texas
Elite Piping & Civil, Ltd. Elite Piping & Civil Limited Partnership Elite Piping & Civil Ltd, L.P. ELITE PIPING & CiVIL, L.P. Elite Piping & Civil, Limited Partnership Elite Piping & Civil, Ltd. Limited Partnership Elite Piping & Civil, Ltd. Limited Partnership Elite Piping & Civil, Ltd., L.P. Elite Piping and Civil, L.P.	Texas

Subsidiary and Names Under Which Subsidiary Does Business	Jurisdiction of Incorporation or Organization
Elite Turnaround Specialists, Ltd. Elite Turnaround Specialists Limited Partnership Elite Turnaround Specialists Limited Lp Elite Turnaround Specialists Limited Partnership Elite Turnaround Specialists, Ltd. L.P. Elite Turnaround Specialists, L.p. Elite Turnaround Specialists, Limited Partnership ELITE TURNAROUND SPECIALISTS, LTD Elite Turnaround Specialists, Ltd, Lp Elite Turnaround Specialists, Ltd, Lp Elite Turnaround Specialists, Ltd, Lp Elite Turnaround Specialists, Ltd, Lp	Texas
Energy Consulting Group, LLC	Delaware
Enscope Pty Ltd	Australia
FiberTel, LLC Fibertel Communications	Utah
FIC GP, LLC	Delaware
Field Personnel Services, LLC	Delaware
First Infrastructure Capital Advisors, LLC	Delaware
First Infrastructure Capital GP, L.P.	Delaware
Five Points Construction Co.	Texas
Flare Construction, LLC Flare Construction, Inc.	Utah
Grid Creative, Inc.	Idaho
Grid Manufacturing Corporation Northwest Lineman College	Idaho
Grid Training Corporation Northwest Lineman Center Northwest Lineman College	Idaho
H.L. Chapman Pipeline Construction, Inc.	Delaware
Haverfield International Incorporated Haverfield Aviation Haverfield Aviation, Inc.	Delaware
HBK Engineering, LLC HBK Engineering, PLLC	Illinois
Helibro, LLC	California
Heritage Midstream, LLC	Delaware
Infraestructura ETP de Mexico, S. de R.L. de C.V.	Mexico
InfraSource Construction, LLC Infrasource Iowa Underground, LLC InfraSources Construction, LLC IUC ILLINOIS, LLC IUC Nebraska, LLC QS Mats	Delaware
InfraSource Field Services, LLC	Delaware
InfraSource Services, LLC	Delaware
Integracion Tecnologica del Peru, SAC	Peru

Subsidiary and Names Under Which Subsidiary Does Business	Jurisdiction of Incorporation or Organization
Intermountain Electric, Inc. Grand Electric Inc. IM Electric, Inc. Ime Electric Intermountain Electric, Inc. which will do business in California as: Colorado IM Electric Intermountain Electric, Inc., A Corporation of Colorado	Colorado
IonEarth, LLC	Michigan
Irby Construction Company Irby Construction Company, Inc. Legend Foundation Services Marathon Construction Services	Mississippi
Island Mechanical Corporation	Hawaii
J&R Underground LLC	Wisconsin
J.C.R. Construction Co., Inc. J.C.R. Utility Construction Co.	New Hampshire
J.W. Didado Electric, LLC	Delaware
JBT Electric, LLC	Texas
Lazy Q Ranch, LLC DE Lazy Q Ranch, LLC (De) Lazy Q Ranch, LLC	Delaware
Lee Electrical Construction, LLC Lee Utilities, Inc.	North Carolina
Lex Engineering Ltd.	British Columbia
LUMA College for Technical Training, LLC	Puerto Rico
Lindsey Electric, L.P.	Texas
M. G. Dyess, Inc.	Mississippi
<ul> <li>M. J. Electric, LLC Great Lakes Line Builders Iron Mountain M.J. Electric, LLC IRON POWER SERVICES, A DIVISION OF M. J ELECTRIC Iron Power Services</li> <li>Iron Power Services, A Division of M.J. Electric, LLC</li> <li>M. J. Electric, LLC – Iron Mountain</li> <li>M. J. Electric, LLC DBA M. J. Electric Iron Mountain, LLC</li> <li>M. J. Electric, LLC IRON MOUNTAIN</li> <li>M.J. Drilling, A Division of M. J. Electric</li> <li>M.J. Drilling, A Division of M. J. Electric, LLC</li> <li>MJ Excavating, A Division of M. J. Electric, LLC</li> <li>Process Controls &amp; Instrumentation</li> <li>Process Controls &amp; Instrumentation, A Division of M. J. Electric, LLC</li> </ul>	Delaware           Nova Scotia
Mears Equipment Services, LLC	Delaware
Infrasource Of Pa, LLC Mears Equipment Service, LLC QPS Global Services	
Mears Group Pty Ltd	Australia
Mears Group, Inc. De Mears Group De Mears Group, Inc. Enscope Ranger Directional	Delaware

Subsidiary and Names Under Which Subsidiary Does Business	Jurisdiction of Incorporation or Organization
Mears Installation, LLC	Delaware
Mearsmex S. de R.L. de C.V.	Mexico
Mejia Personnel Services, LLC	Texas
Microline Technology Corporation	Michigan
Mid America Energy Services, Inc. TA Construction Tom Allen Construction Company Inc. Tom Allen Construction Company of Delaware	Delaware
MTS Quanta, LLC Mercer Technical Services MTS Field Services MTS Field Services (Richmond Co)	Texas
NACAP Niugini Ltd.	Papua New Guinea
Nacap PNG Limited	Papua New Guinea
Nacap Pty Ltd.	Australia
NLC CA., Inc.	Idaho
NLC FL., Inc. Northwest Lineman Center	Idaho
NLC ID., Inc. Northwest Lineman College	Idaho
NLC TX., Inc. Northwest Lineman Center Northwest Lineman Training Center Northwest Lineman Training Center, Inc.	Idaho
North Houston Pole Line, L.P. North Houston Pole Line Limited Partnership QUANTA FOUNDATION SERVICES	Texas
Northern Powerline Constructors, Inc. Chatham Electric	Alaska
NorthStar Energy Services, Inc. NC Northstar Energy Services, Inc Quanta Underground Services Quanta Underground Services (Culpeper Co) Quanta Underground Services (Spotsylvania Co) Quanta Underground Services, Inc. North Star Energy, LLC	North Carolina
Northstar Energy Solutions, LLC	Delaware
Nova Constructors LLC	Japan
Nova Constructors LTD	United Kingdom
Nova Equipment Leasing, LLC	Washington
Nova Group, Inc. NGI Construction NGI Construction, Inc. NGI Construction, Inc. (FN) Nova Group, Inc Nova Group, Inc (CA) Nova Group, Inc. DBA NGI Construction	California
Nova NextGen Solutions, LLC	Delaware
NPC Energy Services LLC	Alaska
O. J. Pipelines Canada Corporation O.J. Pipelines Canada O.J. Industrial Maintenance	New Brunswick

Subsidiary and Names Under Which Subsidiary Does Business	Jurisdiction of Incorporation or Organization
O. J. Pipelines Canada Limited Partnership	Alberta
OJ Industrial Maintenance	
OJ Pipelines Canada	
One Call Locators Canada Ltd.	Canada
P.J. Helicopters, Inc.	California
PAR Electrical Contractors, Inc. Computapole Didado Utility Company, Inc. J.W. Didado Electric J.W. Didado Electric, Inc. Longfellow Drilling Riggin & Diggin Line Construction	Missouri
Riggin & Diggin Line Construction Potelco, Incorporated Seaward Seaward Corp	
Seaward Corporation	
Par Internacional, S. de R.L. de C.V.	Mexico
Performance Energy Services Guyana, Ltd.	British Virgin Islands
Performance Energy Services, L.L.C.	Louisiana
Phasor Engineering Inc.	Alberta
Phoenix North Constructors Inc.	British Columbia
Phoenix Power Group, Inc.	Delaware
Potelco, Inc. Potelco, Incorporated	Washington
Power Delivery Program, Inc.	Idaho
Price Gregory International, Inc.	Delaware
Price Gregory Services, LLC	Delaware
Probst Electric, Inc. Advanced Electric Systems Probst Construction, Inc. Utility Fleet Services	Utah
QEPC Power Solutions, LLC	Delaware
QES GP, LLC	Delaware
QP Energy Services, LLC	Delaware
QPS Engineering LTD. Quanta Inspection Services Quanta Resource Development	Alberta
QPS Engineering, LLC QPS Engineering PLLC QPS Environmental QPS Global QPS Global Services QPS Global Services (Richmond Ci) QPSE	Delaware
QSI Engineering, Inc.	Delaware
QSI Finance (Australia) Pty Ltd.	Australia
QSI Finance (Cayman) Pvt. Ltd.	Cayman Islands
QSI Finance Canada ULC	British Columbia
QSI Finance GP (US) LLC	Delaware
QSI Finance I (US), LP	Delaware
QSI Finance II (Australia) Pty Ltd.	Australia

Subsidiary and Names Under Which Subsidiary Does Business	Jurisdiction of Incorporation or Organization
QSI Finance II (Lux) S.à r.l	Luxembourg
QSI Finance III (Canada) ULC	British Columbia
QSI Finance III (Lux) SARL	Luxemburg
QSI Finance IV (Canada) ULC	British Columbia
QSI Finance IX (Canada) Limited Partnership	British Columbia
QSI Finance V (US), L.P.	Delaware
QSI Finance VI (Canada) ULC	British Columbia
QSI Finance VII (Canada) Limited Partnership	British Columbia
QSI Finance VIII (Canada) ULC	British Columbia
QSI Finance X (Canada) ULC	British Columbia
QSI Holdings I (Singapore) Pte. Ltd.	Singapore
QSI Holdings II (Singapore) Pte. Ltd.	Singapore
QSI, Inc.	Delaware
QSN Lux Holdings I SCSp	Luxembourg
QSN Lux Holdings II SCSp	Luxembourg
QSN Lux Holdings III SCSp	Luxembourg
QSN Lux Holdings IV SCSp	Luxembourg
QTSL, LLC	Delaware
Quanta Asset Management LLC	Delaware
Quanta Associates, L.P.	Texas
Quanta Aviation Services, LLC	Delaware
Quanta Aviation Services West, LLC	Delaware
Quanta Canada GP ULC	British Columbia
Quanta Canada Holdings III Limited Partnership	British Columbia
Quanta Canada Holdings LP	Alberta
Quanta Canada III GP Ltd.	British Columbia
Quanta Capital GP, LLC	Delaware
Quanta Capital LP, L.P.	Delaware
Quanta Capital Solutions, Inc.	Delaware
Quanta Cares	Texas
Quanta Electric Power Construction Management, Inc.	Nebraska
Quanta Electric Power Construction, LLC QEPC	Delaware
Quanta Electric Power Services West, LLC	Delaware
Quanta Electric Power Services, LLC	Delaware
Quanta Energized Innovations Ltd.	British Columbia
Quanta Energized Services of Canada Ltd.	British Columbia
Quanta Energized Services U.S., LLC	Delaware
Quanta Energy Services West, LLC	Delaware
Quanta Energy Services, LLC	Delaware
Quanta Environmental, LLC	Delaware
Quanta Equipment Company, LLC	Delaware
Quanta Government Solutions, Inc.	Delaware
Quanta Holdings I (Netherlands), B.V.	Netherlands
Quanta Holdings II (Netherlands), B.V.	Netherlands
Quanta Infraestructura de Chile SpA	Chile

Subsidiary and Names Under Which Subsidiary Does Business	Jurisdiction of Incorporation or Organization
Quanta Infrastructure Services, LLC	Delaware
Quanta Infrastructure Services, S. de R.L. de C.V.	Mexico
Quanta Inline Devices, LLC	Texas
Quanta Insurance Company, Inc.	Texas
Quanta International Holdings (US) LLC	Delaware
Quanta International Holdings II, Ltd.	British Virgin Islands
Quanta International Holdings IV, Ltd.	British Virgin Islands
Quanta International Holdings V, Ltd.	British Virgin Islands
Quanta International Holdings VI, Ltd.	British Virgin Islands
Quanta International Holdings VII, Ltd.	British Virgin Islands
Quanta International Holdings, Ltd.	British Virgin Islands
Quanta International Limited	British Virgin Islands
Quanta Kingsvale LP Ltd.	British Columbia
Quanta Lines Pty Ltd.	Australia
Quanta Marine Services, LLC	Delaware
Quanta Middle East, LLC	Qatar
Quanta Pipeline Services, Inc. QPS Flint Construction QPS Flint Tank Services QPS Professional Services Quanta Environmental Solutions Quanta EPC Services Ouanta Tank Services	Delaware
Quanta Power Australia Pty Ltd	Australia
Quanta Power Delivery, LLC	Delaware
Quanta Power Generation, Inc.	Delaware
Quanta Power Solutions India Private Limited	India
Quanta Services Africa (PTY) Ltd.	South Africa
Quanta Services Australia Pty Ltd.	Australia
Quanta Services Chile SpA	Chile
Quanta Services Colombia S.A.S.	Colombia
Quanta Services Costa Rica, Ltda.	Costa Rica
Quanta Services Guatemala, Ltda.	Guatemala
Quanta Services International Holdings II Limited Partnership	British Columbia
Quanta Services International Holdings L.P.	Alberta
Quanta Services Management Partnership, L.P.	Texas
Quanta Services Netherlands B.V.	Netherlands
Quanta Services of Canada Ltd.	British Columbia
Quanta Services Panama, S. de R.L.	Panama
Quanta Services Peru S.A.C.	Peru
Quanta Services Puerto Rico, LLC	Puerto Rico
Quanta Services Solutions PR, LLC	Puerto Rico
Quanta Services STPR, LLC	Puerto Rico
Quanta Subsurface Canada, Ltd.	British Columbia
Quanta Subsurface, LLC	Delaware
Quanta Technology Canada ULC	British Columbia
Quanta Technology UK Ltd.	United Kingdom

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Subsidiary and Names Under Which Subsidiary Does Business	Jurisdiction of Incorporation or Organization
Quanta Technology, LLC Delaware Quanta Technology, LLC	Delaware
Quanta Tecnología do Brasil Ltda.	Brazil
Quanta Telecommunication Services, LLC Quanta Telecom Quanta Telecom Services Quanta Telecommunication Services Quanta Telecommunications Services, LLC	Delaware
Quanta Utility Engineering Services, Inc. Utility Line Management Services, Inc.	Missouri
Quanta Utility Installation Company, Inc.	Delaware
Quanta Utility Operations, LLC	Delaware
Quanta West, LLC	Delaware
Quanta Workforce Solutions, LLC	Delaware
Quantecua Cia. Ltda.	Ecuador
R. R. Cassidy, Inc.	Louisiana
Realtime Engineers, Inc. Infrasource Engineering Company, PC	Delaware
Realtime Utility Engineers, Inc.	Wisconsin
Redes Andinas de Comunicaciones S.R.L.	Peru
RMS Holdings, LLC <i>RMS Holdings, LLC (Delaware)</i> <i>RMS Welding Systems</i> <i>Rms Welding Systems LLC</i> <i>RMS Welding Systems, LLC</i> <i>RMS Welding Systems, LLC</i> <i>Rms Welding, LLC</i>	
Road Bore Corporation	Hawaii
Service Electric Company P.D.G. Electric Service EC (DE), Inc. Service Electric Company (DE) Service Electric Company of Delaware Service Electric Company, Inc.	Delaware
Servicios de Infraestructura del Peru S.A.C.	Peru
Servicios Par Electric, S. de R.L. de C.V.	Mexico
Southwest Trenching Company, Inc.	Texas
Specialty Tank Services, Ltd. Specialty Tank Services Limited Partnership Specialty Tank Services, L.P. Specialty Tank Services, Limited Partnership Specialty Tank Services, LP Specialty Tank Services, Ltd. (LP) Specialty Tank Services, Ltd. Limited Partnership Specialty Tank Services, Ltd. LP Specialty Tank Services, Ltd., L.P. Specialty Tank Services, Ltd., LP Texas Specialty Tank Services, Ltd. LP	Texas
Stronghold General, LLC	Texas
Stronghold Holdings (BVI) Limited	British Virgin Islands

Subsidiary and Names Under Which Subsidiary Does Business	Jurisdiction of Incorporation or Organization
Stronghold Inspection, Ltd. Stronghold Inspection Limited Partnership Stronghold Inspection Ltd, L.P. Stronghold Inspection, L.P. Stronghold Inspection, Limited Partnership Stronghold Inspection, Lp Stronghold Inspection, Ltd. Limited Partnership Stronghold Inspection, Ltd. L.P.	Texas
Stronghold Specialty General, LLC	Texas
Stronghold Specialty, Ltd. Stronghold Specialty, Ltd. Limited Partnership	Texas
Stronghold Tower Group, Ltd. Stronghold Tower Group, LP Stronghold Tower Group, Ltd, LP Stronghold Tower Group, Ltd., LP	Texas
Stronghold VI, LLC	U.S. Virgin Islands
Stronghold, Ltd. Stronghold Management Holdings, LP Stronghold, Limited Partnership Stronghold, Ltd. Limited Partnership	Texas
Subterra Damage Prevention Specialists Ltd.	Canada
Summit Line Construction, Inc. Summit Line Construction	Utah
Sumter Utilities, Inc.	Delaware
T. G. Mercer Consulting Services, Inc.	Texas
TC Infrastructure Services Ltd.	British Columbia
The Aspen Utility Company, LLC The Aspen Utility Company, LLC	Texas
The ComTran Group, Inc.	Georgia
The Hallen Construction Co., Inc.	New York
The Ryan Company, Inc. Ryan Company, Inc. of Massachusetts Ryan Company, Inc. (The) Ryan Company, Inc., The The Massachusetts Ryan Company, Inc. The Ryan Company Inc Of Massachusetts The Ryan Company Inc of Massachusetts The Ryan Company Incorporated of Massachusetts The Ryan Company Incorporated Of Massachusetts The Ryan Company Of Massachusetts, Inc. The Ryan Company of Massachusetts The Ryan Company of Massachusetts, Inc. The Ryan Company of Massachusetts, Inc. The Ryan Company, Inc. (Massachusetts) The Ryan Company, Inc. of Massachusetts The Ryan Company, Inc. of Massachusetts The Ryan Company, Incorporated Electrical Contractors	Massachusetts
TurnKey Automation, Ltd. TurnKey Automation Limited Partnership TurnKey Automation, Limited Partnership Turnkey Automation, Ltd. L.P. TurnKey Automation, Ltd. Limited Partnership TurnKey Automation, Ltd. LP. TurnKey Automation, Ltd., Limited Partnership TurnKey I&E, Ltd.	Texas

Subsidiary and Names Under Which Subsidiary Does Business	Jurisdiction of Incorporation or Organization
Underground Construction Co., Inc. Delaware Underground Construction Co. Ucc - Underground Construction Co. UCC Underground Construction Co., Inc. Underground Construction Co., Inc. (Delaware)	Delaware
Underground Electric Construction Company, LLC	Delaware
Utility Training Services Corporation	Idaho
Valard Construction Australia Pty Ltd	Australia
Valard Construction (Ontario) Ltd.	Ontario
Valard Construction (Quebec) Inc.	Quebec
Valard Construction 2008 Ltd.	Alberta
Valard Construction Australia Pty Ltd.	Australia
Valard Construction LP	Alberta
Valard Construction, LLC Valard	Delaware
Valard Equipment (AB) Ltd.	British Columbia
Valard Equipment GP Ltd.	Alberta
Valard Equipment Limited Partnership	Alberta
Valard Geomatics (Ontario) Ltd.	Ontario
Valard Geomatics BC, Ltd.	British Columbia
Valard Geomatics Ltd.	Alberta
Valard Mechanical Ltd.	British Columbia
<ul> <li>Winco, Inc.</li> <li>Winco Powerline Services</li> <li>Winco Powerline Services Inc.</li> <li>Winco Powerline Services, Inc.</li> <li>Winco, Inc. an Oregon Based Corporation</li> <li>Winco, Inc. D/B/A Winco Powerline Services</li> <li>Winco, Inc. DBA Winco Services Inc.</li> <li>Winco, Inc. which will do business in California as: Winco Helicopters</li> </ul>	Oregon

11

#### Exhibit 23.1

#### CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statements on Form S-3 (Nos. 333-248776 and 333-228402) and Form S-8 (Nos. 333-231769, 333-226780, 333-193616 and 333-174374) of Quanta Services, Inc. of our report dated February 26, 2021 relating to the financial statements and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP Houston, Texas February 26, 2021 I, Earl C. Austin, Jr., certify that:

- 1. I have reviewed this annual report on Form 10-K of Quanta Services, Inc.;
- Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that
    material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during
    the period in which this report is being prepared;
  - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 26, 2021

By: /s/ EARL C. AUSTIN, JR.

Earl C. Austin, Jr. President, Chief Executive Officer and Chief Operating Officer (Principal Executive Officer) I, Derrick A. Jensen, certify that:

- 1. I have reviewed this annual report on Form 10-K of Quanta Services, Inc.;
- Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
- 3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
- 4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
  - Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that
    material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during
    the period in which this report is being prepared;
  - b. Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
  - c. Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
  - d. Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
- 5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
  - a. All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
  - b. Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 26, 2021

By: /s/ DERRICK A. JENSEN

Derrick A. Jensen Chief Financial Officer

#### Attachment D

Exhibit 32.1

#### CERTIFICATION PURSUANT TO 18 U.S.C. SECTION 1350, AS ADOPTED PURSUANT TO SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002

Each of the undersigned officers of Quanta Services, Inc. (the "Company") hereby certifies, pursuant to 18 U.S.C. § 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, to such officer's knowledge that:

- 1. the accompanying Form 10-K report for the period ending December 31, 2020 as filed with the U.S. Securities and Exchange Commission (the "Report") fully complies with the requirements of Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as amended; and
- 2. the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Dated: February 26, 2021

Dated:

/s/ EARL C. AUSTIN, JR.

President, Chief Executive Officer and Chief Operating Officer

February 26, 2021

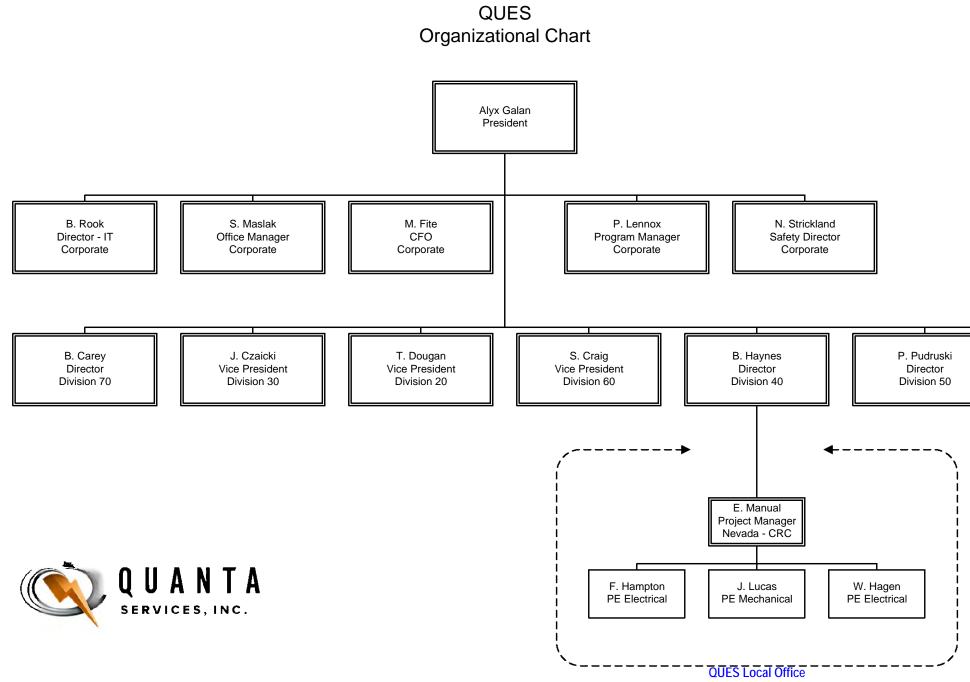
/s/ DERRICK A. JENSEN

Derrick A. Jensen, Chief Financial Officer

Earl C. Austin, Jr.



# Section VII – Proposed Staff Resumes



4415 Andrews St., Las Vegas, NV. 89081

Attachment D

G. Burki Controller Division 10



#### Attachment F

#### **PROPOSED STAFF RESUME**

A resume must be completed for all proposed prime contractor staff and proposed subcontractor staff.

Company Name Submitting Proposal:	Quanta Utility Engineering Services, Inc.			
Check the appropriate box if the proposed individual is prime contractor staff or subcontractor staff.				

check the appropriate box in the proposed marviadaris prime contractor starr or subcontractor starr.				
Contractor:	X	Subcontractor:		

The following information requested pertains to the individual being proposed for this project.				
Name:	Brendan Haynes		Key Personnel: (Yes/No)	Yes
Individual's Title	Director			
# of Years in Classif	sification: 4 # of Years with Firm:		18	

#### BRIEF SUMMARY OF PROFESSIONAL EXPERIENCE Information should include a brief summary of the proposed individual's professional experience.

Mr. Haynes' has twenty plus (20+) years of management experience and exposure to multiple electrical and gas utilities has allowed him to develop, lead and grow a diverse team of Planning and Technical Services professionals working remotely and from offices located in Upland, California.

Services include electrical Transmission and Distribution planning and engineering, gas service planning and engineering, fiber planning and engineering, field survey and civil base mapping, AutoCAD drawing and mapping and Project Management.

	RELEVANT EXPERIENCE
	nclude: timeframe, company name, company location, position title held during m of the contract/project and details of contract/project.
Southern California Edison	Turnkey Design and Project Management
	<ul> <li>Design turnkey infrastructure replacement projects including deteriorated underground structures and cable replacement. Work with PAR Construction by developing construction schedules and procuring permits from governmental agencies.</li> <li>Photovoltaic Work Order Preparation (WDAT)</li> </ul>
	<ul> <li>Compile information and design solar roof top and solar field feeder systems. Experienced in System Impact Studies, Facility Studies and Final Work Order Preparation.</li> <li>Port of Long Beach – Gerald Desmond Bridge Relocation</li> </ul>
	<ul> <li>Created Order of Magnitude for the relocation of SCE facilities, both overhead and underground, for the rebuild of the Gerald Desmond Bridge in the Port of Long Beach.</li> <li>Station Fire Rebuild of Broadcast 33kV Line (Mount Wilson)</li> </ul>
	<ul> <li>Design the rebuild of Broadcast 33kV line after Station Fire in environmentally sensitive Angelus National Forest using non-standard SCE design standards. Re-designed using SCE standards.</li> <li>Various complex underground conversions</li> </ul>
	<ul> <li>Performed the design and planning of new underground conversions, for governmental agencies (Rule 20A) and for private new development (Rule 20B/C).</li> <li>Distribution Substation Planning</li> </ul>
	<ul> <li>Design and develop 41 new feeder circuits to accommodate new growth and load. Including three 90 day rush designs (Equinox 12kV, Celestial 12 kV &amp; Patron 12kV)</li> <li>4kV Substation Elimination Planning and Project Management</li> </ul>
	<ul> <li>Convert 4kV circuits to 12/16 kV and decommission substation. 23 circuits converted and 5 substations decommissioned.</li> </ul>
	Distribution Substation Planning - Re-conductor overhead distribution and transmission lines, add fourth wire neutral. Mount Baldy Fire Response Rebuild
	<ul> <li>Design a rebuild for damages caused by fire. Crews followed directly behind to rebuild lines being designed in the field in high elevations and harsh weather conditions.</li> <li>Deteriorated Pole Replacement Project</li> </ul>
Hawaiian Electric Company	<ul> <li>Design and project manage the replacement of 400 distribution and transmission poles on the Island of Oahu in six months prior to the Pan Pacific Conference</li> <li>Deteriorated Pole Replacement</li> </ul>
Bear Valley Electric	- Managed deteriorated pole replacement and wind loading program. System Upgrade
	- Designed 2.8 mile re-conductor along HWY 18 (N. Shore Dr.) N/O Baldwin Lake. Distribution Substation Planning
PacifiCorp	<ul> <li>Project Managed conversion of 26 mile 12 kV circuit to 35 kV.</li> <li>Cable Replacement</li> <li>Estimated replacement of both circule and three phase cable runs from EAAD mans and field</li> </ul>
	<ul> <li>Estimated replacement of both single and three phase cable runs from FAAR maps and field data.</li> <li>Tract Design</li> </ul>
	- Designed 8 residential tracks in Rock Springs, WY.

#### EDUCATION

Information required should include: institution name, city, state, degree and/or Achievement and date completed/received.

B.A. - Political Science – 1993

B.A. – Philosophy - 1994

University of California, Santa Barbara, California

CERTIFICATIONS

Information required should include: type of certification and date completed/received.

#### REFERENCES

A minimum of three (3) references are required, including name, title, organization, phone number, fax number and email address.

Lisa LeMaster SOUTHERN CALIFORNIA EDISON Transmission Southeast Division Central Orange County – Santa Ana Lisa.LeMaster@sce.com Cell Phone 714-380-1959 Currently Acting Grid Design and Performance Manager – Orange Grid

Chris E. Scott Manager, Electric Transmission Operations Eastern Transmission Grid Office 909-820-5541 Chris.Scott@sce.com Current Grid Design and Performance Manager – Eastern Grid

Elsie Acevedo Senior Manager Electric Transmission Operations - Metro East Grid Elsie.acevedo@sce.com 909-809-7352 Current Grid Manager – Metro East

#### Attachment F

### **PROPOSED STAFF RESUME**

A resume must be completed for all proposed prime contractor staff and proposed subcontractor staff.

Company Name Submitting Proposal:	Quanta Utility Engineering Services, Inc.

Check the appropriate box if the proposed individual is prime contractor staff or subcontractor staff.			
Contractor:	X	Subcontractor:	

The following information requested pertains to the individual being proposed for this project.				
Name:	Eric Manual		Key Personnel: (Yes/No)	Yes
Individual's Title	Transmission Design Manager			
# of Years in Classif	ification: 7 # of Years with Firm:		m:	7

#### **BRIEF SUMMARY OF PROFESSIONAL EXPERIENCE**

Information should include a brief summary of the proposed individual's professional experience.

Mr. Manual has over thirty (30) years of strong and diverse experience in the electric utility industry with exposure to operational, systems and financial related fields. Consistently applies skills acquired through comprehensive vocational training, formal educational background and strong work ethic to exceed goals and expectations. Repeatedly earns the respect of senior managers, team members, employees, and peers. Effectively interfaces with all levels of management/staff and externally with various customers and governmental/municipal concerns. Consistently looked upon to manage large complex assignments and successfully meet tight time constraints.

#### **RELEVANT EXPERIENCE**

Information required should include: timeframe, company name, company location, position title held during the term of the contract/project and details of contract/project.

#### Southern California Edison

#### Numerous Overhead/Underground Transmission projects

Voltages ranging from 66kV to 500kV

Scopes ranging from single structure to 100+ station relocations Highlights include:

- City of Azusa Kirkwall Substation Added Facilities
  - New municipal substation to feed City of Azusa
- City of West Covina Azusa Ave Rule 20A UG conversion
  - Approx. 1.5 miles OH to 1750kcmil
- City of Diamond Bar Diamond Bar Blvd. Rule 20B
  - Approx. .9 miles OH to bundled 1750kcmil
- City of Ontario Milliken Grade Separation
  - Designed for two permanent moves to support city-sponsored Grade Separation project
  - Multiple TSP's
- New Model Colony Archibald and Edison Relocation
  - 100+ Structure relocation in City of Ontario
- 220kV RTRP (Riverside Transmission Reliability Project)
  - Technical sub-team for line route selection for two new 220kV T/L's
  - Mira Loma-Wildlife and Visa-Wildlife 220kV T/L's
- Re-conductor projects
  - Mira Loma-Milliken & Etiwanda-Inland-Wimbledon 66kV T/L's
  - o 2.4 miles 4/0 CU to 954 SAC
  - o To correct n-1 overload condition at Etiwanda Sub

- Chino-Soquel 66kV T/L
  - o 3.2 miles 605ACSR to 954ACSR

#### EDUCATION Information required should include: institution name, city, state, degree and/or Achievement and date completed/received.

Bachelor of Science, Accounting (Emphasis in Quantitative Financial Analysis) University of La Verne (1989) MBA

University of La Verne

#### CERTIFICATIONS

Information required should include: type of certification and date completed/received.

#### REFERENCES A minimum of three (3) references are required, including name, title, organization, phone number, fax number and email address.

Insert here a minimum of three (3) references with the above information.

Jim Keane City Engineer City of Boulder City, NV 702.293.9200 jkeane@bcnv.org

Chris Scott Senior Manager – Oak Hills Transmission Grid Southern California Edison 760.954.4046 Chris.scott@sce.com

Kurt Carlson Principal Manager Transmission Construction and Maintenance – Metropolitan Division Southern California Edison 310.608.5130 Kurt.carlson@sce.com

#### Attachment F

#### **PROPOSED STAFF RESUME**

A resume must be completed for all proposed prime contractor staff and proposed subcontractor staff.

Company Name Submitting Proposal:	Quanta Utility Engineering Services, Inc.		
Check the appropriate box if the proposed individual is prime contractor staff or subcontractor staff.			

oncer the appropriate box in the proposed marriadants prime contractor start of subcontractor start.				
Contractor:	X	Subcontractor:		

The following information requested pertains to the individual being proposed for this project.					
Name:	Freddie Hampton Key Personnel: (Yes/No)			Key Personnel: (Yes/No)	Yes
Individual's Title	Professional Engineer - Electrical				
# of Years in Classification:		35	# of Years with Firm:		14

#### **BRIEF SUMMARY OF PROFESSIONAL EXPERIENCE**

Information should include a brief summary of the proposed individual's professional experience.

Over thirty (30) career as a professional electrical engineering including T&D Lines and Substations, protection, controls and scada as well as project management of electric utility overhead and underground power line projects as well as the structural analysis of wooden power poles.

RELEVANT EXPERIENCE Information required should include: timeframe, company name, company location, position title held during the term of the contract/project and details of contract/project.				
	Pole Load Program (2011 - Present) Illinois			
	Engineering review and approval of pole structural loading analysis.			
Ameren Missouri	Faulted Cable Replacement Program (2016 – Present) Missouri			
	Management of the field, design/estimating and engineering components of the program for Ameren.			
	Capacitor Bank Controller Replacement Program (2016 – Present) Missouri			
	Management of the estimating component of the program for Ameren.			
	<b>Pole Load Program</b> (2011 - 2015) <i>Missouri</i>			
	Engineering review and approval of pole structural loading analysis.			
	<b>PowerON Program</b> (2007 - 2009) <i>Missouri</i>			
	Engineering and design of medium voltage overhead to underground conversion projects			
Vectren Energy	<b>Pole Load Program</b> (2011 - Present) <i>Indiana</i>			
MidWest Energy	Engineering review and approval of pole structural loading analysis and developed project guidelines.			

	Attachment D
	Arc Flash Study and Recommendation for PPE (2015 - 2016) Kansas
	Member of a team that performed arc flash incident energy calculations and analysis for 3 phase transformers ranging from 150 KVA to 2500 KVA, at the 480 volt AC secondary terminals and meter locations. Prepared a report of the analysis with recommendations for PPE clothing levels for the various sizes of transformers at various 3 phase bolted fault levels.
Transource Energy, LLC	White Cliffs – Sharon Springs Substation Ground Grid Design (2015) Kansas
	Design of 115Kv Substation ground grid.
	North Liberal – Walkemeyer 115Kv Transmission Line – Route Selection Study
Portland General Electric	Kansas
Google Fiber	Perform a study to develop a preferred route and alternates routes for a 115 KV transmission line connecting a Mid Kansas Electric Company substation at Liberal, KS with a Sunflower Electric Power Corporation substation at Walkemeyer.
	Wave Broadband Project (2015) Portland, OR
Kentucky Utilities	Developed conductor tension tables and provided various engineering support for pole loading analysis.
	<b>Google Fiber Project</b> (2012 - 2015) Missouri/Kansas – Kansas City Metropolitan Area
	Engineering review and approval of pole structural loading analysis.
	Gas Breaker Replacement Project (2012) Kentucky
	Design/build of control wiring diagrams for the 138kV and 69 kV gas breaker replacement project.
	EDUCATION tion required should include: institution name, city, state, ree and/or Achievement and date completed/received.

Bachelor of Science, Electrical Engineering, Missouri University of Science and Technology (1985)

## CERTIFICATIONS

#### Information required should include: type of certification and date completed/received.

Licensed Professional Engineer - Missouri #24222 (exp. 12/31/21), Georgia #PE039626 (exp. 12/31/21), Kansas #PE24291 (exp. 4/30/21), Texas #121195 (exp.9/30/21), Utah #9700839-2202 (exp. 3/31/121), Indiana #PE11600141 (exp. 7/31/21), Alabama #37230-E (exp.12/31/2021), South Carolina #35178 (exp. 6/30/2021), Nevada #25357 (exp. 6/30/2021), North Carolina #46173 (exp.12/31/2021), Nebraska #E-17003 (exp.12/31/20121), and Wisconsin #46198-6 (exp. 7/31/2021).

#### REFERENCES

A minimum of three (3) references are required, including name, title, organization, phone number, fax number and email address.

Jason Cliffe Ameren Missouri Supervisor Asset Management Oversees OH and URD Inspection work performed on Ameren Missouri 573-590-1243 jcliffe@ameren.com

John B. Rowland, PE Ameren UE Heavy Underground, Network, Cable Replacements New Conduit, Manholes, Substations 314-554-2268

Jamie Kiely Evergy (former KCP&L) Google Fiber Program Turnkey EPC, Engineering Staff Augmentation, Heavy Underground Downtown Network, Manholes, Substations, Distribution Automation Switchgears, Lateral Improvements, Distribution Design/Build and EPC Projects 660-351-4890

#### Attachment F

## **PROPOSED STAFF RESUME**

A resume must be completed for all proposed prime contractor staff and proposed subcontractor staff.

Company Name Submitting Proposal:	Quanta Utility Engineering Services, Inc.
-	

Check the appropriate box if the proposed individual is prime contractor staff or subcontractor staff.					
Contractor: X		Subcontractor:			

The following information requested pertains to the individual being proposed for this project.						
Name:	James Lucas Key Personnel: (Yes/No)			Yes		
Individual's Title	Senior Engineer, Transmission and Distribution					
# of Years in Classification:		1	# of Years with Firm:		1	

#### BRIEF SUMMARY OF PROFESSIONAL EXPERIENCE

Information should include a brief summary of the proposed individual's professional experience.

James has over 13 years of experience as a project engineer and project manager for multi-disciplined transmission and distribution projects. His qualifications extend to include Engineering Manager for EPC (engineer, procure, construct) projects. James has designed multiple transmission and distribution lines up to 500kV. He has experience in modeling using Power Line System's suite of programs as well as LPile and FAD Tools. His designs included lattice tower, tubular steel, Glu-Lam and wood pole construction with single and bundled conductor.

James previously held roles as Quality Control Engineer, Engineering Manager, and Team Lead. As a Quality Control Engineer, he worked on processes improvement, standardizations, and tools development, and project reviews.

#### RELEVANT EXPERIENCE

Information required should include: timeframe, company name, company location, position title held during the term of the contract/project and details of contract/project.

PacifiCorp	Gateway West, Aeolus-Jim Bridger, 500kV and 345kV (2019) Wyoming
	EPC Engineer supporting construction contract with material callouts, tubular steel pole designs, vendor reviews, and specification requirements.
PNM	BB2, 345kV (2019) New Mexico
	Quality control engineer and technical resource for the design of tubular H-frame structures and material quantities.
Bonneville Power Administration	Big Eddy-Knight 500kV (2016) Washington and Oregon
	Project Manager and engineer for the design of double circuit lattice 500kV structures coupled with 345kV and 230kV circuits. Designed three routes and met with stakeholders to discuss the project during the routing phase. Coordinated with access roads, environmental, FAA, and Right-of-Way teams during the project.
Bonneville Power Administration	I-5 Corridor Reinforcement Project (2019) Washington and Oregon
	James was a Project Engineer for this project on which the team designed transmission lines

RFP No. ES-21-01

#### Attachment D

and access roads, performed NEPA support, survey services, and prepared construction documents to support BPA's desire to reinforce the power grid in Western Washington. The final line route was 80 miles of new 500-kV transmission line from Castle Rock, WA, to Troutdale, OR, though the project entailed the design of about 96 total miles of transmission line including two lines crossing the Columbia River. Supporting BPA through the NEPA process with the identified options required preliminary design of about 270 miles of transmission lines and about 540 miles of access roads. The services provided by the team included: transmission, structural, road, and drainage engineering; underground transmission feasibility studies, survey management; and geotechnical, surveying, and environmental subcontractors

#### San Diego Gas & Electric FIRM Project Analysis (2018) California

James was a Distribution Engineer for SDG&E's FiRM program. The program targeted facilities within the high fire threat districts for replacement due to increased probabilities of starting wildfires. Initial tasks were around completing as-built/closeout tasks of newly installed line segments. After development of as-built tasks, team was asked to perform engineering on newly identified sections of distribution lines for replacement.

#### EDUCATION

Information required should include: institution name, city, state, degree and/or Achievement and date completed/received.

Bachelor of Science, Mechanical Engineering, Montana State University (2007)

#### CERTIFICATIONS

Information required should include: type of certification and date completed/received.

Professional Engineer – Montana, Mechanical 18165. Expiration June 2022 Professional Engineer – Alaska, Mechanical 106875. Expiration December 2021 Professional Engineer – Nevada, Mechanical 027962, Expiration December 2021

#### REFERENCES

A minimum of three (3) references are required, including name, title, organization, phone number, fax number and email address.

Barry Moyes, Manager – Engineering/Technology, Quanta Services.

M: 406-208-1929, <u>bmoyes@quantaservices.com</u>

Geoff Parkins, Engineering Manager, Quanta Services.

M: 406-670-8329, gparkins@quantaservices.com

#### Rob Almanza, Manager – Electric Programs, QEPC.

M: 406-750-1443, ralmanza@Q-EPC.com

#### Attachment F

#### **PROPOSED STAFF RESUME**

A resume must be completed for all proposed prime contractor staff and proposed subcontractor staff.

Company Name Submitting Proposal:	Quanta Utility Engineering Services, Inc.			
Check the appropriate box if the proposed individual is prime contractor staff or subcontractor staff				

Check the appropriate box in the proposed individual is prime contractor stan or subcontractor stan.				
Contractor:	X	Subcontractor:		

The following information requested pertains to the individual being proposed for this project.					
Name:	Wayne HagenKey Personnel: (Yes/No)Yes			Yes	
Individual's Title	Director of Engineering				
# of Years in Classification: 16		16	# of Years with Fir	m:	20

#### **BRIEF SUMMARY OF PROFESSIONAL EXPERIENCE**

Information should include a brief summary of the proposed individual's professional experience.

Over 30 years of experience in planning, analysis, design, project management, and construction of utility, government, industrial and institutional electrical distribution & sub-transmission systems. Planning and design development that meets constructability, operational, maintenance and budgetary requirements.

#### **RELEVANT EXPERIENCE**

Information required should include: timeframe, company name, company location, position title held during the term of the contract/project and details of contract/project.

Puget Sound Energy	Langley 15/16 Feeder Tie Whidbey Island, WA
	Reconductor & upgrade overhead line to 600A feeder along narrow right-of-way corridor; features included vertical pole framing, easement acquisitions and minimization of tree impact.
Burlington Northern Santa Fe	Delta Yard Conversion & Upgrades Everett, WA
	Design to convert distribution system from overhead to underground, install SF6 switch, local utility coordination, overcurrent device coordination & settings, contractor selection and owners rep during construction.

#### EDUCATION Information required should include: institution name, city, state, degree and/or Achievement and date completed/received.

#### B.S. Electrical Engineering, Oregon State University (1987)

## CERTIFICATIONS

Information required should include: type of certification and date completed/received.

- Professional Engineer Washington (30237). 11/19/2021
- Professional Engineer Oregon (46006PE). 6/30/2021
- Professional Engineer Hawaii (11636). 4/30/2021
- Professional Engineer Alaska (12612). 12/31/2021
- Professional Engineer Utah (7859568-2202). 3/31/2021
- Professional Engineer Colorado (44796). 10/31/2021

- Professional Engineer California (E19578). 6/30/2021
- Professional Engineer Nevada (024486). 6/30/2021

#### REFERENCES

A minimum of three (3) references are required, including name, title, organization, phone number, fax number and email address.

Puget Sound Energy (Transmission) Carolanne Walter, PE Puget Sound Energy Supervisor - Electric System Engineering Email: Carolanne.Walter@pse.com Office: 425.424.7981

Puget Sound Energy (Distribution) Scott Kim, PE, CPESC Puget Sound Energy Supervisor - Electric Distribution Engineering Email: Scott.Kim@pse.com Office: 425.456.2046

Avista Utilities Eric Barnes Outside Plant Engineer Email: Eric.Barnes@avistacorp.com Office: 509.495.2493

# Section I – Title Page

Part II – Cost Proposal			
RFP Title:	Engineering Services		
RFP #:	21-01		
Vendor Name:	Quanta Utility Engineering Services, Inc.		
Address:	4770 N. Belleview Avenue, Suite 100 Kansas City, MO 64116-2190		
Proposal Opening Date:	04/26/2021		
Proposal Opening Time:	2:00pm		



# Section II – Cost Proposal 2. Cost Schedule – Attachment G

# **COST SCHEDULE** *Engineering Services*

Vendor Name: Quanta Utility Engineering Services, Inc.

Direct Labor – Job Titles	Hourly Rate
A. Senior Engineer	\$188.52
B. Engineer	\$162.73
C. Junior Engineer	\$139.27
D. Engineer in Training	\$104.33
E. Designer	\$128.92
F. Drafter	\$107.41
G. Project Manager	\$163.29
H. Project Coordinator	\$135.20
I. 1-Man Survey Crew	\$243.00
J. 2-Man Survey Crew	\$318.20
K. Professional Land Surveyor	\$178.20

\*Prevailing Wage applied to Land Surveying classifications.

ENTI	ΓΥ Ι	NFO	RMAT	ION

#### **ENTITY INFORMATION**

**Entity Name:** 

QUANTA UTILITY ENGINEERING SERVICES, INC.

Entity Number:

E0220232018-7

#### Entity Type:

Foreign Corporation (80)

#### **Entity Status:**

Active

**Formation Date:** 

05/03/2018

#### **NV Business ID:**

NV20181322466

**Termination Date:** 

Perpetual

Annual Report Due Date:

5/31/2021

**Domicile Name:** 

Jurisdiction:

Missouri

#### **REGISTERED AGENT INFORMATION**

7/2021			SilverFlume Nevada's Business Portal to start/manage your business					
	Nam	e of Individual or L	egal Entity:					
	COR	DRPORATION SERVICE COMPANY						
	Statu	IS:						
	Activ	e						
	CRA	Agent Entity Type:						
	Regi	stered Agent Type:						
	Com	mercial Registered A	Agent					
	NV B	usiness ID:						
	NV20	0101844335						
	Offic	e or Position:						
	Juris	diction:						
	DELA	WARE						
	Stree	et Address:						
	112 N	IORTH CURRY ST	REET, Carson City, NV, 89703, USA					
	Maili	ng Address:						
	Indiv	idual with Authorit	y to Act:					
	GEO	RGE MASSIH						
	Fictif	ious Website or Do	amain Name					
	i iciii							
		RINFORMATION						
	VIEW	HISTORICAL DATA	A					
Title	9	Name	Address	Last Updated	Status			
Pres	ident	ALYX GALAN	4770 N. BELLEVIEW AVENUE, SUITE 100, Kansas City, MO, 64116, USA	05/12/2020	Active			
Sec	etary	CAROLYN M CAMPBELL	2800 POST OAK BOULEVARD, SUITE 2600, HOUSTON, TN, 77056, USA	05/03/2019	Active			

2800 POST OAK BOULEVARD, SUITE 2600,

HOUSTON, TN, 77056, USA

GRINDSTAFF

Treasurer NICHOLAS M

05/03/2019 Active

SilverFlume Nevada's Business Portal to start/manage your business

Title	Name	Address			Last Updated	Statu
Director	CAROLYN M CAMPBELL		2800 POST OAK BOULEVARD, SUITE 2600, HOUSTON, TN, 77056, USA			Active
Director	DOROTHY C UPPERMAN		2800 POST OAK BOULEVARD, SUITE 2600, HOUSTON, TN, 77056, USA			Active
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CURREN Class/Se	T SHARES	Туре	Share Nu	mber	Value	
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Return to Search Return to Results



## The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT

FIRST: "QUANTA UTILITY ENGINEERING SERVICES, INC.", A CORPORATION DULY ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF MISSOURI, FILED IN THIS OFFICE THE THIRTY-FIRST DAY OF AUGUST, A.D. 2021, AT 12:07 O'CLOCK P.M., A CERTIFICATE OF SURRENDER OF AUTHORITY OF THE CORPORATION TO DO BUSINESS IN THIS STATE AND ITS WITHDRAWAL THEREFROM.

SECOND: THE APPOINTMENT OF THE REGISTERED AGENT OF "QUANTA UTILITY ENGINEERING SERVICES, INC.", IN THIS STATE, UPON WHOM PROCESS AGAINST THE CORPORATION MAY BE SERVED, SHALL BE REVOKED.



Authentication: 204049429 Date: 08-31-21

6852349 8100W SR# 20213125658

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware Secretary of State Division of Corporations Delivered 12:07 PM 08/31/2021 FILED 12:07 PM 08/31/2021 SR 20213125658 - File Number 6852349

# STATE OF DELAWARE CERTIFICATE OF WITHDRAWAL FROM THE STATE OF DELAWARE

#### **KNOW ALL MEN BY THESE PRESENTS:**

That Quanta Utility Engineering Services, Inc.

organized under and by virtue of the laws of the State of Missouri \_\_\_\_\_\_, duly authorized to do business in the State of Delaware, does hereby certify that said corporation, by action of its Board of Directors, surrenders its authority to transact business in Delaware and withdraws therefrom, and specifies 2800 Post Oak Blvd. Suite 2600, Houston, TX 77056

as the address to which the Secretary of the State of Delaware may mail any process against this corporation that may be served upon him.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the official seal of the aforesaid corporation the <u>31st</u> day of August , A.D. 2021.

uthoriz

Name: Claudia G. Santos Print or Type

Title: Assistant Secretary

#### CERTIFICATE OF CONVERSION OF QUANTA UTILITY ENGINEERING SERVICES, INC. (A MISSOURI CORPORATION) TO QUANTA UTILITY ENGINEERING SERVICES, INC. (A DELAWARE CORPORATION)

#### August 30, 2021

Pursuant to the provisions of Section 351.409 of the General and Business Corporation Law of Missouri (the "Act"), Quanta Utility Engineering Services, Inc., a Missouri corporation (the "Corporation"), hereby certifies as follows relating to the conversion to Quanta Utility Engineering Services, Inc., a Delaware corporation (the "Delaware Entity"):

1. The name of the Corporation is "Quanta Utility Engineering Services, Inc" filed under Missouri Charter Number 00500862.

2. The Corporation filed its original articles of incorporation with the Missouri Secretary of State on September 24, 2001.

2. The Corporation elects to become a Delaware corporation.

3. The conversion of the Corporation into the Delaware Entity has been approved by the Corporation in the manner provided for by under 351.409(2) of the Act.

4. The Corporation agrees that it may be served with process in the State of Missouri in any proceeding for enforcement of any obligation of the corporation arising while it was a corporation of this state, and that it irrevocable appoints the Secretary of State of Missouri as it agent to accept service of process in any such action, suit or proceeding, The address to which a copy of such process shall be mailed by the Secretary of State of Missouri is 2800 Post Oak Blvd, Suite 2600, Houston, TX 77056.

5. The Delaware Entity will not be qualified in Missouri at this time.

6. The Conversion shall be effective as of 12:00am on August 31, 2021 (the "Effective Time").

[Signatures on the following page.]

ORI-08312021-4253 State of Missouri



Conversion - For Profit (D)

IN WITNESS WHEREOF, the undersigned has executed this Certificate of Conversion on the date first above written.

Quanta Utility Engineering Services, Inc.

8

By: <u>Carolyn M. Caro Lell</u> Name: Carolyn M. Campbell Title: Vice President

~

Delaware

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A MISSOURI CORPORATION UNDER THE NAME OF 'QUANTA UTILITY ENGINEERING SERVICES, INC.' TO A DELAWARE CORPORATION, FILED IN THIS OFFICE ON THE THIRTY-FIRST DAY OF AUGUST, A.D. 2021, AT 12:08 O'CLOCK P.M.



Authentication: 204051057 Date: 08-31-21

6205504 8100F SR# 20213125662

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware Secretary of State Division of Corporations Delivered 12:07 PM 08/31/2021 FTLED 12:08 PM 08/31/2021 SR 20213125662 - File Number 6205504

## STATE OF DELAWARE CERTIFICATE OF CONVERSION FROM A NON-DELAWARE CORPORATION TO A DELAWARE CORPORATION PURSUANT TO SECTION 265 OF THE DELAWARE GENERAL CORPORATION LAW

1.) The jurisdiction where the Non-Delaware Corporation first formed is Missouri

2.) The jurisdiction immediately prior to filing this Certificate is Missouri

- 3.) The date the Non-Delaware Corporation first formed is September 24, 2001.
- 4.) The name of the Non-Delaware Corporation immediately prior to filing this Certificate is Quanta Utility Engineering Services, Inc.
- 5.) The name of the Corporation as set forth in the Certificate of Incorporation is Quanta Utility Engineering Services, Inc.

IN WITNESS WHEREOF, the undersigned being duly authorized to sign on behalf of the converting Non-Delaware Corporation have executed this Certificate on the 31st day of August , A.D. 2021

By

Name: Claudia G. Santos Print or Type

Title: Assistant Secretary Print or Type



The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF INCORPORATION OF "QUANTA UTILITY ENGINEERING SERVICES, INC." FILED IN THIS OFFICE ON THE THIRTY-FIRST DAY OF AUGUST, A.D. 2021, AT 12:08 O`CLOCK P.M.



6205504 8100F SR# 20213125662

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 204051057 Date: 08-31-21

Page 1

#### STATE of DELAWARE CERTIFICATE of INCORPORATION A STOCK CORPORATION

• First: The name of this Corporation is Quanta Utility Engineering Services, Inc.

• Second: Its registered office in the State of Delaware is to be located at 251 Little Falls Drive Street, in the City of Wilmington County of New Castle Zip Code 19808

The registered agent in charge thereof is Corporation Service Company

Third: The purpose of the corporation is to engage in any lawful act or activity for which corporations may be organized under the General Corporation Law of Delaware.

• Fourth: The amount of the total stock of this corporation is authorized to issue is 30,000 shares (number of authorized shares) with a par value of 1.00 per share.

• Fifth: The name and mailing address of the incorporator are as follows: Name Claudia G. Santos

Mailing Address 2800	Post Oak Blvd.,	Suite 2600
Houston, TX	Zip Code770	56

• I, The Undersigned, for the purpose of forming a corporation under the laws of the State of Delaware, do make, file and record this Certificate, and do certify that the facts herein stated are true, and I have accordingly hereunto set my hand this <u>31st</u> day of August, A.D. 2021

BY:

NAME: Claudia G. Santos (type or print)

State of Delaware Secretary of State Division of Corporations Delivered 12:07 PM 08/31/2021 FILED 12:08 PM 08/31/2021 SR 20213125662 - File Number 6205504

# STATE OF MISSOURI



# John R. Ashcroft Secretary of State

# CERTIFICATE OF CONVERSION

WHEREAS, a Certificate of Conversion of the following entity:

Quanta Utility Engineering Services, Inc. - 00500862 CONVERTING INTO: Quanta Utility Engineering Services, Inc. - a Delaware not qualified

Organized and existing under the laws of Missouri and have been received, found to conform to Law and filed.

NOW, THEREFORE, I, Missouri, Secretary of State of the State of Missouri, issue the Certificate of Conversion, certifying that the conversion of the aforenamed entity is effected, with

Quanta Utility Engineering Services, Inc. - a Delaware not qualified

As the newly formed entity, pursuant to Chapter 351.409 RSMO.

IN TESTIMONY WHEREOF, I hereunto set my hand and cause to be affixed the GREAT SEAL of the State of Missouri. Done at the City of Jefferson, this 31st day of August, 2021.

ecretary





The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A MISSOURI CORPORATION UNDER THE NAME OF "QUANTA UTILITY ENGINEERING SERVICES, INC." TO A DELAWARE CORPORATION, FILED IN THIS OFFICE ON THE THIRTY-FIRST DAY OF AUGUST, A.D. 2021, AT 12:08 O`CLOCK P.M.



6205504 8100F SR# 20213125662

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 204051057 Date: 08-31-21

# STATE OF DELAWARE CERTIFICATE OF CONVERSION FROM A NON-DELAWARE CORPORATION TO A DELAWARE CORPORATION PURSUANT TO SECTION 265 OF THE DELAWARE GENERAL CORPORATION LAW

- 1.) The jurisdiction where the Non-Delaware Corporation first formed is Missouri
- 2.) The jurisdiction immediately prior to filing this Certificate is Missouri
- 3.) The date the Non-Delaware Corporation first formed is September 24, 2001.
- 4.) The name of the Non-Delaware Corporation immediately prior to filing this Certificate is Quanta Utility Engineering Services, Inc.
- 5.) The name of the Corporation as set forth in the Certificate of Incorporation is Quanta Utility Engineering Services, Inc.

IN WITNESS WHEREOF, the undersigned being duly authorized to sign on behalf of the converting Non-Delaware Corporation have executed this Certificate on the 31st day of August , A.D. 2021 .

By:

Name: Claudia G. Santos Print or Type

Title: Assistant Secretary Print or Type



# The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF INCORPORATION OF "QUANTA UTILITY ENGINEERING SERVICES, INC." FILED IN THIS OFFICE ON THE THIRTY-FIRST DAY OF AUGUST, A.D. 2021, AT 12:08 O`CLOCK P.M.



6205504 8100F SR# 20213125662

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 204051057 Date: 08-31-21

Page 1

# STATE of DELAWARE CERTIFICATE of INCORPORATION A STOCK CORPORATION

• First: The name of this Corporation is Quanta Utility Engineering Services, Inc.

• Second: Its registered office in the State of Delaware is to be located at 251 Little Falls Drive Street, in the City of Wilmington County of New Castle Zip Code 19808

The registered agent in charge thereof is Corporation Service Company

**Third:** The purpose of the corporation is to engage in any lawful act or activity for which corporations may be organized under the General Corporation Law of Delaware.

• Fourth: The amount of the total stock of this corporation is authorized to issue is 30,000 shares (number of authorized shares) with a par value of 1.00 per share.

• Fifth: The name and mailing address of the incorporator are as follows: Name Claudia G. Santos

Mailing Address 2800Post Oak Blvd., Suite 2600Houston, TXZip Code 77056

• I, The Undersigned, for the purpose of forming a corporation under the laws of the State of Delaware, do make, file and record this Certificate, and do certify that the facts herein stated are true, and I have accordingly hereunto set my hand this 31st day of August , A.D. 2021 .

BY:

NAME: Claudia G. Santos (type or print)

# State of Delaware Annual Franchise Tax Report

	<b>L</b>	
CORPORATION NAME QUANTA UTILITY ENGINEERING SERVICES,	INC.	TAX YR. 2021
FILE NUMBER     INCORPORATION DATE     RENEWAL/REVOCATION DATE       6205504     2021/08/31		
PRINCIPAL PLACE OF BUSINESS 2800 POST OAK BLVD. STE. 2600 HOUSTON, TX 77056		PHONE NUMBER (713)985-6434
REGISTERED AGENT CORPORATION SERVICE COMPANY 251 LITTLE FALLS DRIVE WILMINGTON DE 19808		AGENT NUMBER 9000014
AUTHORIZED STOCK DESIGNATION/ BEGIN DATE END DATE STOCK CLASS 2021/08/31 COMMON	NO. OF SHARES PAR VALUE/ SHARE 30,000 1.000000000	
OFFICER NAME CLAUDIA G. SANTOS	STREET/CITY/STATE/ZIP 2800 POST OAK BLVD. STE. 2600 HOUSTON, TX 77056	TITLE ASSISTANT SECRETARY
DIRECTORS NAME CAROLYN M. CAMPBELL	STREET/CITY/STATE/ZIP 2800 POST OAK BLVD. STE. 2600 HOUSTON, TX 77056	
JIM STAPP	2800 POST OAK BLVD. STE. 2600 HOUSTON, TX 77056	
NOTICE: Pursuant to 8 Del. C. 502(b), If any office to the Secretary of State shall knowingly make any far AUTHORIZED BY (OFFICER, DIRECTOR OR INCORPORATOR) CLAUDIA G. SANTOS 2800 POST OAK BLVD. STE. 2600 HOUSTON, TX 77056 US	cer or director of a corporation required to make an annual ulse statement in the report, such officer or director shall be 2021/08/31 As Si	franchise tax report guilty of perjury. <sup>HITLE</sup> SSISTANT ECRETARY

# State of Delaware

Annual Franchise Tax Report

Prepaid Qrty. Payments \$0.00	Amount Due \$225.00		ount Paid 25.00	Check Number		
<b>Franchise Tax</b> \$175.00	<b>Penalty</b> \$0.00	<b>1.5% Monthly</b> \$0.00	' Interest	<b>Annual Filing Fee</b> \$50.00	Prev Credit or Bala \$0.00	nce
TOTAL NUMBER OF SHA	RES ISSUED	TOTAL GROSS ASSETS	5		ASSET DATE	
	Date: From	(s) of Inactivity To	1			
JAN. 1st.	LATED INVESTMENT CON DEC. 31st.	4P5				
FILE NUMBER FEDERAL EMPLOYER ID			7			
CORPORATION NO QUANTA UTILITY ENGINE	ERING SERVICE	S, INC.				NX YR.



The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF CONVERSION OF A DELAWARE CORPORATION UNDER THE NAME OF "QUANTA UTILITY ENGINEERING SERVICES, INC." TO A DELAWARE LIMITED LIABILITY COMPANY, CHANGING ITS NAME FROM "QUANTA UTILITY ENGINEERING SERVICES, INC." TO "PAR WESTERN LINE CONTRACTORS, LLC", FILED IN THIS OFFICE ON THE THIRTY-FIRST DAY OF AUGUST, A.D. 2021, AT 12:09 O`CLOCK P.M.



Authentication: 204053827 Date: 08-31-21

6205504 8100V SR# 20213125667

You may verify this certificate online at corp.delaware.gov/authver.shtml

State of Delaware Secretary of State Division of Corporations Delivered 12:07 PM 08/31/2021 FILED 12:09 PM 08/31/2021 SR 20213125667 - File Number 6205504

# STATE OF DELAWARE CERTIFICATE OF CONVERSION FROM A CORPORATION TO A LIMITED LIABILITY COMPANY PURSUANT TO SECTION 18-214 OF THE LIMITED LIABILITY COMPANY ACT

1.) The jurisdiction where the Corporation first formed is Delaware

2.) The jurisdiction immediately prior to filing this Certificate is Delaware

3.) The date the corporation first formed is August 31, 2021

- 4.) The name of the Corporation immediately prior to filing this Certificate is Quanta Utility Engineering Services, Inc.
- 5.) The name of the Limited Liability Company as set forth in the Certificate of Formation is PAR Western Line Contractors, LLC

IN WITNESS WHEREOF, the undersigned have executed this Certificate on the 31st day of August , A.D. 2021

By

Name: Claudia G. Santos Print or Type



The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE DO HEREBY CERTIFY THAT THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "PAR WESTERN LINE CONTRACTORS, LLC" FILED IN THIS OFFICE ON THE THIRTY-FIRST DAY OF AUGUST, A.D. 2021, AT 12:09 O`CLOCK P.M.



6205504 8100V SR# 20213125667

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 204053827 Date: 08-31-21

# STATE OF DELAWARE CERTIFICATE OF FORMATION OF LIMITED LIABILITY COMPANY

The undersigned authorized person, desiring to form a limited liability company pursuant to the Limited Liability Company Act of the State of Delaware, hereby certifies as follows:

1. The name of the limited liability company is PAR Western Line Contractors, LLC

2. The Registered Office of the limited liability company in the State of Delaware is located at 251 Little Falls Drive (street), in the City of Wilmington , Zip Code 19808 . The name of the Registered Agent at such address upon whom process against this limited liability company may be served is Corporation Service Company

IN WITNESS WHEREOF, the undersigned has duly executed this Certificate of Formation as of August 31, 2021.

By:

Name: Claudia G. Santos

Print or Type

State of Delaware Secretary of State Division of Corporations Delivered 12:07 PM 08/31/2021 FILED 12:09 PM 08/31/2021 SR 20213125667 - File Number 6205504