### UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

		Form 10-Q	
(Mark One)			
☑ QUAR	RTERLY REPORT PURSUA he quarterly period ended Jun		ACT OF 1934
	SITION REPORT PURSUA	or NT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE A to .	ACT OF 1934
		Commission file no. 001-13831	
		Quanta Services, Inc. (Exact name of registrant as specified in its charter)	
	Delaware  State or other jurisdiction of accorporation or organization)	<b>74-2851603</b> (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)	
	(Former na	N/A nme, former address and former fiscal year, if changed since last report)	
-	e (,	I reports required to be filed by Section 13 or 15(d) of the Securities Exchange Acth reports), and (2) has been subject to such filing requirements for the past 90 day	ē . ē
•		l electronically every Interactive Data File required to be submitted pursuant to R riod that the registrant was required to submit such files). Yes $\boxtimes$ No $\square$	tule 405 of Regulation S-T (§ 232.405 of
		lerated filer, an accelerated filer, a non-accelerated filer, a smaller reporting companular reporting company," and "emerging growth company" in Rule 12b-2 of the Ex	
Large accelerated filer			Accelerated filer □
Non-accelerated filer □			Smaller reporting company □ Emerging growth company □
	pany, indicate by check mark if the tion 13(a) of the Exchange Act. I	he registrant has elected not to use the extended transition period for complying $v$	with any new revised financial accounting
Indicate by check mark who	ether the registrant is a shell comp	oany (as defined in Rule 12b-2 of the Exchange Act). Yes □ No ⊠	
	ated with one share of Series G Pro	ommon Stock of the registrant was 148,807,552. As of the same date, 449,929 exceptered Stock of the registrant were outstanding and an additional 36,183 exchange	_

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### PART I - FINANCIAL INFORMATION

### Item 1. Financial Statements.

### QUANTA SERVICES, INC. AND SUBSIDIARIES

## CONDENSED CONSOLIDATED BALANCE SHEETS (In thousands, except share information) (Unaudited)

	June 30, 2018		D	December 31, 2017
ASSETS				
Current Assets:				
Cash and cash equivalents	\$	120,357	\$	138,285
Accounts receivable, net of allowances of \$4,757 and \$4,465		2,108,317		1,985,077
Contract assets		551,505		497,292
Inventories		85,859		80,890
Prepaid expenses and other current assets		208,798		168,363
Total current assets		3,074,836		2,869,907
Property and equipment, net of accumulated depreciation of \$1,042,815 and \$981,275		1,325,128		1,288,602
Other assets, net		230,934		189,866
Other intangible assets, net of accumulated amortization of \$352,520 and \$335,507		261,820		263,179
Goodwill		1,897,664		1,868,600
Total assets	\$	6,790,382	\$	6,480,154
LIABILITIES AND EQUITY				
Current Liabilities:				
Current maturities of long-term debt and short-term debt	\$	15,499	\$	1,220
Accounts payable and accrued expenses		1,178,983		1,057,460
Contract liabilities		496,083		433,387
Total current liabilities		1,690,565		1,492,067
Long-term debt and notes payable, net of current maturities		840,742		670,721
Deferred income taxes		196,521		179,381
Insurance and other non-current liabilities		369,089		342,356
Total liabilities		3,096,917		2,684,525
Commitments and Contingencies				
Equity:				
Common stock, \$.00001 par value, 600,000,000 shares authorized, 156,934,020 and 155,219,154 shares issued, and 149,088,134 and 153,342,326 shares outstanding		2		2
Exchangeable shares, no par value, 486,112 shares issued and outstanding		_		_
Series G Preferred Stock, \$.00001 par value, 1 share authorized, issued and outstanding		_		_
Additional paid-in capital		1,934,826		1,889,356
Retained earnings		2,301,281		2,191,059
Accumulated other comprehensive loss		(248,532)		(203,395)
Treasury stock, 7,845,886 and 1,876,828 common shares		(296,917)		(85,451)
Total stockholders' equity		3,690,660		3,791,571
Non-controlling interests		2,805		4,058
Total equity		3,693,465		3,795,629
Total liabilities and equity	\$	6,790,382	\$	6,480,154

## CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS (In thousands, except per share information) (Unaudited)

		Three Months Ended			Six Months Ended				
	June 30,								
		2018		2017		2018		2017	
Revenues	\$	2,656,348	\$	2,200,374	\$	5,073,924	\$	4,378,544	
Cost of services (including depreciation)		2,322,977		1,898,209		4,439,505		3,810,191	
Gross profit		333,371		302,165		634,419		568,353	
Selling, general and administrative expenses		206,104		185,880		421,526		370,432	
Amortization of intangible assets		10,507		6,494		20,912		13,056	
Change in fair value of contingent consideration liabilities		(6,279)		_		(6,279)			
Operating income		123,039		109,791		198,260		184,865	
Interest expense		(9,178)		(4,271)		(15,956)		(8,236)	
Interest income		660		164		806		451	
Other income (expense), net		(10,426)		(1,079)		(22,401)		(1,443)	
Income before income taxes		104,095		104,605		160,709		175,637	
Provision for income taxes		29,389		40,245		47,392		62,837	
Net income		74,706		64,360		113,317		112,800	
Less: Net income attributable to non-controlling interests		341		523		1,338		696	
Net income attributable to common stock	\$	74,365	\$	63,837	\$	111,979	\$	112,104	
Earnings per share attributable to common stock:									
Basic	\$	0.49	\$	0.41	\$	0.72	\$	0.72	
Diluted	\$	0.48	\$	0.41	\$	0.72	\$	0.72	
Shares used in computing earnings per share:									
Weighted average basic shares outstanding		153,325		155,090		154,906		154,859	
Weighted average diluted shares outstanding		154,595		156,165		156,112		155,745	

# CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (In thousands) (Unaudited)

	Three Months Ended				Six Months Ended				
		Jun	e 30,		June 30,				
		2018		2017	2018		2018		
Net income	\$	74,706	\$	64,360	\$	113,317	\$	112,800	
Other comprehensive income (loss), net of tax provision:									
Foreign currency translation adjustment, net of tax of \$0, \$0, \$0 and \$0		(20,123)		26,685		(45,137)		40,506	
Other comprehensive income (loss)		(20,123)		26,685		(45,137)		40,506	
Comprehensive income		54,583		91,045		68,180		153,306	
Less: Comprehensive income attributable to non-controlling interests		341		523		1,338		696	
Total comprehensive income attributable to Quanta stockholders	\$	54,242	\$	90,522	\$	66,842	\$	152,610	

# CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS (In thousands) (Unaudited)

	Three	Months	Ended	Six Months Ended			
		June 30	,	Ju	ne 30,	30,	
	2018		2017	2018		2017	
Cash Flows from Operating Activities:							
Net income	\$ 74,70	6 \$	64,360	\$ 113,317	\$	112,800	
Adjustments to reconcile net income to net cash provided by (used in) operating activities—							
Depreciation	50,03	4	44,650	98,753		87,343	
Amortization of intangible assets	10,50	7	6,494	20,912		13,056	
Change in fair value of contingent consideration liabilities	(6,27	9)	_	(6,279)		_	
Equity in losses of unconsolidated affiliates	11,79	8	2,148	25,141		2,751	
Amortization of debt issuance costs	28	8	338	576		678	
(Gain) loss on sale of property and equipment	98	2	(2,007)	1,945		(166)	
Foreign currency (gain) loss	58	2	641	(69)		862	
Provision for doubtful accounts	13	9	61	984		926	
Deferred income tax (benefit) provision	(2,87	2)	3,666	13,505		3,630	
Non-cash stock-based compensation	13,48	5	11,557	28,172		23,423	
Changes in operating assets and liabilities, net of non-cash transactions	3,15	0	(127,074)	(114,444)		(244,174)	
Net cash provided by operating activities	156,52	0	4,834	182,513		1,129	
Cash Flows from Investing Activities:							
Capital expenditures	(81,78	4)	(58,257)	(148,591)		(105,281)	
Proceeds from sale of property and equipment	7,22	4	7,543	12,993		12,344	
Proceeds from insurance settlements related to property and equipment	36	5	_	365		597	
Cash paid for acquisitions, net of cash, cash equivalents and restricted cash acquired	(15,50	6)	(6,108)	(46,234)		(7,635)	
	(73	1)	(9,229)	(1,569)		(12,954)	
(Investments in) and return of equity from unconsolidated affiliates							
Cash received from (paid for) other investments, net	7	8	615	784		(1,086)	
Cash paid for intangible assets	(3,00			(3,000)		_	
Net cash used in investing activities	(93,35	4)	(65,436)	(185,252)		(114,015)	
Cash Flows from Financing Activities:							
Borrowings under credit facility	1,062,44	5	550,883	2,037,393		1,248,094	
Payments under credit facility	(1,101,56	1)	(491,943)	(1,861,930)		(1,123,384)	
Payments on other long-term debt	(38	5)	(1,354)	(731)		(2,883)	
Borrowings of short-term debt	12,94	2	_	12,942		_	
Payments on short-term debt	-	_	_	_		(2,783)	
Distributions to non-controlling interests	(68	7)	(383)	(1,667)		(1,363)	
Payments related to tax withholding for share-based compensation	(1,58	3)	(1,613)	(14,204)		(17,805)	
Exercise of stock options	-	_	_	_		25	
Repurchase of common stock	(15,99	3)		(189,906)	_		
Net cash provided by (used in) financing activities	(44,82	2)	55,590	(18,103)		99,901	
Effect of foreign exchange rate changes on cash, cash equivalents and restricted cash	1,11	3	88	1,804		1,183	
Net increase (decrease) in cash, cash equivalents and restricted cash	19,45	7	(4,924)	(19,038)		(11,802)	
Cash, cash equivalents and restricted cash, beginning of period	105,28		107,532	143,775		114,410	
Cash, cash equivalents and restricted cash, end of period	\$ 124,73	7 \$	102,608	\$ 124,737	\$	102,608	

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS (Unaudited)

### 1. BUSINESS AND ORGANIZATION:

Quanta Services, Inc. (Quanta) is a leading provider of specialty contracting services, offering infrastructure solutions primarily to the electric power, oil and gas and communication industries in the United States, Canada, Australia, Latin America and select other international markets. Quanta reports its results under two reportable segments: (1) Electric Power Infrastructure Services and (2) Oil and Gas Infrastructure Services.

### Electric Power Infrastructure Services Segment

The Electric Power Infrastructure Services segment provides comprehensive network solutions to customers in the electric power industry. Services performed by the Electric Power Infrastructure Services segment generally include the design, installation, upgrade, repair and maintenance of electric power transmission and distribution infrastructure and substation facilities along with other engineering and technical services. This segment also provides emergency restoration services, including the repair of infrastructure damaged by inclement weather, the energized installation, maintenance and upgrade of electric power infrastructure utilizing unique bare hand and hot stick methods and Quanta's proprietary robotic arm technologies, and the installation of "smart grid" technologies on electric power networks. In addition, this segment designs, installs and maintains renewable energy generation facilities, consisting of solar, wind and certain types of natural gas generation facilities, and related switchyards and transmission infrastructure. To a lesser extent, the segment also provides comprehensive communications infrastructure services to wireline, fiber and wireless carrier customers within the communications industry; services in connection with the construction of electric power generation facilities; the design, installation, maintenance and repair of commercial and industrial wiring; and the installation of traffic networks and cable and control systems for light rail lines. This segment also includes Quanta's postsecondary educational institution that provides pre-apprenticeship training and programs for experienced linemen.

### Oil and Gas Infrastructure Services Segment

The Oil and Gas Infrastructure Services segment provides comprehensive network solutions to customers involved in the development, transportation, storage and processing of natural gas, oil and other pipeline products. Services performed by the Oil and Gas Infrastructure Services segment generally include the design, installation, repair and maintenance of pipeline transmission and distribution systems, gathering systems, production systems, storage systems and compressor and pump stations, as well as related trenching, directional boring and mechanized welding services. In addition, this segment's services include pipeline protection, integrity testing, rehabilitation and replacement, and fabrication of pipeline support systems and related structures and facilities. Quanta also serves the offshore and inland water energy markets, primarily providing services to oil and gas exploration platforms, including mechanical installation (or "hook-ups"), electrical and instrumentation, pre-commissioning and commissioning, coatings, shallow water pipeline installation, fabrication and marine asset repair. Additionally, Quanta provides high-pressure and critical-path turnaround services to the downstream and midstream energy markets and instrumentation and electrical services, piping, fabrication and storage tank services. To a lesser extent, this segment designs, installs and maintains fueling systems, as well as water and sewer infrastructure.

### Acquisitions

In January 2018, Quanta acquired an electrical infrastructure services business specializing in substation construction and relay services and a postsecondary educational institution that provides pre-apprenticeship training and programs for experienced linemen, both of which are located in the United States. The results of the acquired businesses have generally been included in Quanta's Electric Power Infrastructure Services segment and consolidated financial statements beginning on the acquisition dates.

On July 20, 2017, Quanta acquired Stronghold, Ltd. and Stronghold Specialty, Ltd. (collectively Stronghold), a specialized services business located in the United States that provides high-pressure and critical-path solutions to the downstream and midstream energy markets. The results of the acquired business are generally included in Quanta's Oil and Gas Infrastructure Services segment and have been included in Quanta's consolidated financial statements beginning on the acquisition date.

During the year ended December 31, 2017, Quanta also acquired a communications infrastructure services contractor and an electrical and communications contractor, both of which are located in the United States. The results of these acquired businesses are generally included in Quanta's Electric Power Infrastructure Services segment and have been included in Quanta's consolidated financial statements beginning on the respective acquisition dates.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

### 2. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES:

### Principles of Consolidation

The condensed 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 condensed 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.

### Interim Condensed Consolidated Financial Information

These unaudited condensed consolidated financial statements have been prepared pursuant to the rules of the U.S. Securities and Exchange Commission (SEC). Certain information and footnote disclosures, normally included in annual financial statements prepared in accordance with U.S. Generally Accepted Accounting Principles (US GAAP), have been condensed or omitted pursuant to those rules and regulations. Quanta believes that the disclosures made are adequate to make the information presented not misleading. In the opinion of management, all adjustments, consisting only of normal recurring adjustments, necessary to fairly state the financial position, results of operations, comprehensive income and cash flows with respect to the interim condensed consolidated financial statements have been included. The results of operations and comprehensive income for the interim periods are not necessarily indicative of the results for the entire fiscal year. The results of Quanta have historically been subject to significant seasonal fluctuations.

Quanta recommends that these unaudited condensed consolidated financial statements be read in conjunction with the audited consolidated financial statements and notes thereto of Quanta and its consolidated subsidiaries included in Quanta's Annual Report on Form 10-K for the year ended December 31, 2017, which was filed with the SEC on February 28, 2018.

### Reclassifications

Quanta reclassified certain prior period amounts related to restricted cash and proceeds from the settlement of insurance claims related to property and equipment in the accompanying condensed consolidated statements of cash flows to conform to the current period presentation under recently adopted accounting updates. See Note 3 for further details regarding these updates. Certain reclassifications have also been made to Quanta's condensed consolidated statements of operations for 2017 to conform to classifications for 2018. Additionally, the amounts previously reported as "Costs and estimated earnings in excess of billings on uncompleted contracts" and "Billings in excess of costs and estimated earnings on uncompleted contracts" on Quanta's condensed consolidated balance sheets have been included in the newly titled "Contract assets" and "Contract liabilities" in accordance with the newly adopted revenue recognition guidance discussed below and in Note 3.

### Use of Estimates and Assumptions

The preparation of financial statements in conformity with US 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 doubtful accounts, valuation of inventory, useful lives of assets, fair value assumptions in analyzing goodwill, other intangibles and long-lived asset impairments, equity and other investments, loan receivables, purchase price allocations, acquisition-related contingent consideration liabilities, liabilities for insurance and other claims and guarantees, multiemployer pension plan withdrawal liabilities, contingent liabilities, revenue recognition for construction contracts inclusive of contractual change orders and claims, share-based compensation, operating results of reportable segments, as well as the provision for income taxes and the calculation of uncertain tax positions.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

#### Cash and Cash Equivalents

Quanta had cash and cash equivalents of \$120.4 million and \$138.3 million as of June 30, 2018 and December 31, 2017. 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 June 30, 2018 and December 31, 2017, cash equivalents were \$55.1 million and \$7.1 million, and consisted primarily of money market investments and money market mutual funds and are discussed further in *Fair Value Measurements* below. As of June 30, 2018 and December 31, 2017, cash and cash equivalents held in domestic bank accounts were \$79.6 million and \$83.1 million, and cash and cash equivalents held in foreign bank accounts were\$40.8 million and \$55.2 million. As of June 30, 2018 and December 31, 2017, cash and cash equivalents held by joint ventures, which are either consolidated or proportionately consolidated, were \$11.6 million and \$16.7 million, of which \$11.2 million and \$10.0 million related to domestic joint ventures. Cash and cash equivalents held by the joint ventures are available to support joint venture operations, but Quanta cannot utilize those assets to support its other operations. Quanta generally has no right to the joint ventures' cash and cash equivalents other than participating in distributions and in the event of dissolution.

#### Current and Long-Term Accounts and Notes Receivable and Allowance for Doubtful Accounts

Quanta provides an allowance for doubtful accounts when collection of an account or note receivable is considered doubtful, and receivables are written off against the allowance when deemed uncollectible. Inherent in the assessment of the allowance for doubtful accounts are certain judgments and estimates regarding, among other factors, the customer's access to capital, the customer's willingness or ability to pay, general economic and market conditions, the ongoing relationship with the customer and uncertainties related to the resolution of disputed matters. Quanta considers accounts receivable delinquent after 30 days but does not generally include delinquent accounts in its analysis of the allowance for doubtful accounts unless the accounts receivable have been outstanding for at least 90 days. Quanta also includes accounts receivable hat relate to customers in bankruptcy or with other known difficulties in its analysis of the allowance for doubtful accounts. Material changes in customers' business or cash flows, which may be impacted by negative economic and market conditions, could affect Quanta's ability to collect amounts due. As of June 30, 2018 and December 31, 2017, Quanta had allowances for doubtful accounts on current receivables of \$4.8 million and \$4.5 million. Long-term accounts receivable are included within "Other assets, net" in the accompanying condensed consolidated balance sheets.

Should customers experience financial difficulties or file for bankruptcy, or should anticipated recoveries relating to receivables in existing bankruptcies or other workout situations fail to materialize, Quanta could experience reduced cash flows and losses in excess of current allowances provided.

Some contracts allow customers to withhold a small percentage of billings pursuant to retainage provisions, and such amounts are generally due upon completion of the contracts and acceptance by the customer. Based on Quanta's experience with similar contracts in recent years, the majority of the retainage balances at each balance sheet date are expected to be collected within the next twelve months. Current retainage balances as of June 30, 2018 and December 31, 2017 were \$254.8 million and \$300.5 million and were included in "Accounts receivable." Retainage balances with settlement dates beyond the next twelve months were included in "Other assets, net," and as of June 30, 2018 and December 31, 2017 were \$90.7 million and \$41.9 million.

Quanta recognizes unbilled receivables 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, costs have been incurred but are yet to be billed under cost-reimbursement type contracts, 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 revenue recognized for work performed under fixed-price contracts, as these amounts are recorded as "Contract assets." At June 30, 2018 and December 31, 2017, the balances of unbilled receivables included in "Accounts receivable" were \$433.5 million and \$303.9 million.

### Goodwill

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. An annual assessment for impairment is performed for each operating unit that carries a balance of goodwill. Quanta's operating units are organized into one of two internal divisions: the Electric Power Infrastructure Services Division and the Oil and Gas Infrastructure Services 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 represent its reporting units for the purpose of

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

assessing goodwill impairments.

An annual, or interim, goodwill impairment test is performed by comparing the fair value of a reporting unit with its carrying amount and recognizing an impairment charge for the amount by which the carrying amount exceeds the fair value. The income tax effect associated with an impairment of tax deductible goodwill is also considered in the measurement of the goodwill impairment.

Quanta has the option to first assess qualitative factors to determine whether it is necessary to perform the quantitative fair value-based impairment test described below. 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. Quanta can choose to perform the qualitative assessment on none, some or all of its reporting units. Quanta can also bypass the qualitative assessment for any reporting unit in any period and proceed directly to the quantitative impairment test, and then resume the qualitative assessment in any subsequent period. Qualitative indicators including deterioration in macroeconomic conditions, declining financial performance, or a sustained decrease in share price, among other things, may trigger the need for annual or interim impairment testing of goodwill associated with one or all of the reporting units.

Quanta's annual goodwill impairment assessment is performed in the fourth quarter of its fiscal year, or more frequently if events or circumstances arise which indicate that goodwill may be impaired. For instance, a decrease in Quanta's market capitalization below book value, a significant change in business climate or loss of a significant customer, as well as the qualitative indicators referenced above, may trigger the need for interim impairment testing of goodwill for a reporting unit. The quantitative impairment 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. Any goodwill impairment is limited to the total amount of goodwill allocated to that reporting unit.

Quanta determines the fair value of its reporting units using a weighted combination of the discounted cash flow, market multiple and market capitalization valuation approaches, with heavier weighting on the discounted cash flow method because management believes this method results in the most accurate calculation of fair value. Determining the fair value of a reporting unit requires judgment and the use of significant estimates and assumptions, including revenue growth rates, operating margins, discount rates, weighted average costs of capital and future market conditions. Quanta believes the estimates and assumptions used in its impairment assessments are reasonable and based on available market information, but variations in any of the assumptions could result in materially different calculations of fair value and determinations of whether or not an impairment is indicated.

Under the discounted cash flow method, Quanta determines fair value based on the estimated future cash flows of each reporting unit, discounted to present value using risk-adjusted industry discount rates, which reflect the overall level of inherent risk of a reporting unit and the rate of return an outside investor would expect to earn. Cash flow projections are derived from budgeted amounts and operating forecasts (typically a one-year model) plus an estimate of later period cash flows, all of which are evaluated by management. Subsequent period cash flows are developed for each reporting unit using growth rates that management believes are reasonably likely to occur, along with a terminal value derived from the reporting unit's earnings before interest, taxes, depreciation and amortization (EBITDA). The EBITDA multiples for each reporting unit are based on trailing twelve-month comparable industry data.

Under the market multiple and market capitalization approaches, Quanta determines the estimated fair value of each of its reporting units by applying transaction multiples to each reporting unit's projected EBITDA and then averaging that estimate with similar historical calculations using either a one, two or three year average. For the market capitalization approach, Quanta adds a reasonable control premium, which is estimated as the premium that would be received in a sale of the reporting unit in an orderly transaction between market participants.

For recently acquired reporting units, a quantitative impairment test may indicate a fair value that is substantially similar to the reporting unit's carrying amount. Such similarities in value are generally an indication that management's estimates of future cash flows associated with the recently acquired reporting unit remain relatively consistent with the assumptions that were used to derive its initial fair value.

During the fourth quarter of 2017, a quantitative fair-value based goodwill impairment analysis indicated that the fair value of each of Quanta's reporting units, with the exception of two reporting units in its Oil and Gas Infrastructure Services Division, was in excess of its carrying amount. Quanta recorded &57.0 million non-cash charge in the fourth quarter of 2017 for the impairment of goodwill associated with a reporting unit that provides material handling services, which achieved lower operating

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

margins than anticipated during 2017 and is expected to continue to face a highly competitive environment in its select markets, and a reporting unit that provides marine and offshore services, which has experienced prolonged periods of reduced revenues and operating margins and is expected to continue to experience lower levels of activity in the U.S. Gulf of Mexico and other offshore markets. Assuming a 10% decrease in the fair value of each of Quanta's reporting units, one additional reporting unit within Quanta's Oil and Gas Infrastructure Services Division would have had a fair value below its carrying amount. Circumstances such as market declines, unfavorable economic conditions, loss of a major customer or other factors could increase the risk of impairment of goodwill for this reporting unit in future periods.

If an operating unit experiences prolonged periods of declining revenues, operating margins or both, it may be at risk of failing the quantitative goodwill impairment test. Certain operating units have experienced declines over the short-term due to challenging macroeconomic conditions in certain geographic areas and low oil and natural gas prices, which have negatively impacted customer spending and resulted in project cancellations and delays. Additionally, customer capital spending has been constrained as a result of an increasingly complex regulatory and permitting environment. Certain operating units within Quanta's Oil and Gas Infrastructure Services Division that primarily operate within the midstream and smaller-scale transmission market, including the reporting units referenced above, have continued to be negatively impacted by these factors. Goodwill and intangible assets associated with these operating units were \$48.9 million and \$13.1 million at June 30, 2018. Quanta monitors these conditions and others to determine if it is necessary to perform the quantitative fair-value based impairment test for one or more operating units prior to the annual impairment assessment. No interim impairment charges were recorded during the six months ended June 30, 2018. Although Quanta is not aware of circumstances that would lead to additional goodwill impairments at this time, circumstances such as a continued market decline, the loss of a major customer or other factors could impact the valuation of goodwill in the future.

#### 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. The 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 analysis 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 following table presents the significant estimates used by management in determining the fair values of customer relationships associated with acquisitions in the six months ended June 30, 2018 and year ended December 31, 2017:

	2018	2017
Discount rates	25%	17% to 25%
Customer attrition rates	20%	15% to 78%

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. This approach 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 and curriculum. The value of a non-compete agreement is estimated based on the difference between the present value of the prospective cash flows without it in place.

Quanta amortizes intangible assets 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 subject to amortization 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 interim 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. Intangible asset impairments are included within "Asset impairment charges" in the consolidated statements of operations, when applicable.

During the fourth quarter of 2017, Quanta recorded an impairment charge of \$1.1 million related to a customer relationship intangible asset, which primarily resulted from a strategic decision to restructure a business within a reporting unit in the Oil and Gas Infrastructure Services Division.

### Investments in Affiliates and Other Entities

In the normal course of business, Quanta enters into various types of investment arrangements, each having unique terms

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

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 services 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. As part of this strategy, Quanta formed a partnership with select investors that provides up to \$1.0 billion of capital, including approximately \$80.0 million from Quanta, available to invest in certain of these infrastructure projects through August 2024. 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 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. Quanta's share of net income or losses from unconsolidated equity investments is reported as equity in earnings (losses) of unconsolidated affiliates, which is included in "Other income (expense)" in the accompanying condensed consolidated statements of operations. Equity investments are reviewed for impairment by assessing whether any decline in the fair value of the investment below the carrying amount is other than temporary. In making this determination, factors such as the ability to recover the carrying amount of the investment and the inability of the investee to sustain an earnings capacity are evaluated in determining whether a loss in value should be recognized. Any impairment losses related to investments would be recognized in equity in earnings (losses) of unconsolidated affiliates. 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 Quanta's accompanying condensed consolidated balance sheets.

Quanta has a minority ownership interest in a limited partnership that was selected during 2014 to build, own and operate a new electric transmission line and two substations in Alberta, Canada. The limited partnership contracted with a Quanta subsidiary to perform the engineering, procurement and construction (EPC) services for the project, and the Quanta subsidiary recognizes revenue and related cost of services as performance progresses on the project. However, due to Quanta's ownership interest, a proportional amount of the EPC profit is deferred until the electric transmission line and related substations are constructed and ownership of the assets is deemed to be transferred to the third party customer. The profit deferral has been recorded as a decrease to the equity method investment and as a component of equity in earnings (losses) of unconsolidated affiliates, which is included in "Other income (expense)" in the accompanying condensed consolidated statements of operations. Because the profit deferral is greater than the amount invested, the net amount has been included in "Insurance and other non-current liabilities" in the accompanying condensed consolidated balance sheets. See Notes 8 and 10 for additional disclosures related to investments.

### Revenue Recognition

As discussed in Note 3, effective January 1, 2018, Quanta adopted new revenue recognition guidance using the modified retrospective transition method, applying the guidance to contracts with customers that were not substantially complete as of such date. Quanta's financial results for reporting periods after January 1, 2018 are presented under the new guidance, while financial results for prior periods will continue to be reported in accordance with the prior guidance and Quanta's historical accounting policy. The net cumulative adjustment due to adoption of the new guidance was a \$1.8 million reduction to retained earnings as of January 1, 2018, which primarily related to certain contracts that are now accounted for as a single performance obligation but were previously accounted for separately for revenue recognition purposes. Quanta does not anticipate significant changes to the pattern of revenue recognition for contracts with customers and does not believe that the guidance surrounding the identification of contracts and performance obligations or the measurement of variable consideration will have a material impact on revenue recognition under its customary contractual arrangements.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

#### Contracts

Quanta designs, installs, upgrades, repairs and maintains infrastructure for customers in the electric power, oil and gas and communications industries. These services may be provided pursuant to master service agreements (MSAs), repair and maintenance contracts and fixed price and non-fixed price installation contracts. These contracts are classified into three categories based on how transaction prices are determined and revenue is recognized: unit-based contracts, cost-plus contracts and fixed price contracts. Transaction prices for unit-based 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 with its customers. In addition to the considerations described below, revenue is not recognized unless collectability under the contract is considered probable, the contract 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 the customer. For contracts with multiple performance obligations, Quanta allocates the transaction price to each performance obligation using its best estimate of the standalone selling price of each distinct good or service in the contract. The standalone selling price is estimated using the expected costs plus a margin approach for each performance obligation.

At June 30, 2018, the aggregate transaction price allocated to unsatisfied or partially satisfied performance obligations was estimated to be approximately\$5.58 billion, of which 79.8% was expected to be recognized in the subsequent twelve months. This amount represents 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 has not yet begun. For purposes of calculating remaining performance obligations, Quanta includes all estimated revenues attributable to consolidated joint ventures and 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 additional contract revenues will be earned and are deemed probable of collection. Excluded from remaining performance obligations were 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. Quanta believes that the following methods provide a faithful depiction of when performance obligations under its contracts with customers are satisfied. Under unit-based contracts with an insignificant amount of partially completed units, Quanta recognizes revenue as units are completed based on contractual pricing amounts. Under unit-based 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.

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 under the newly adopted revenue recognition guidance. Such costs were not material during the three and six months ended June 30, 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 engineers, project managers and financial professionals. Some of the factors that may lead to changes in estimates include concealed or unknown environmental conditions; changes in the cost of equipment, commodities, materials or labor; unanticipated costs or claims due to delays caused by customers or third parties; customer failure to provide required materials or equipment; errors in engineering, specifications or designs;

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

project modifications or contract termination; weather conditions; changes in estimates related to the length of time to complete a performance obligation; and performance and quality issues 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 in profitability or losses associated with the related performance obligations. For example, estimated costs for a performance obligation may increase from the 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.

Changes in estimates on certain contracts may result in the issuance of change orders and/or claims, which may be approved or unapproved by the customer. Quanta determines the probability that such costs will be recovered based on, among other things, contractual entitlement, past practices with the customer, specific discussions or preliminary negotiations with the customer or verbal approvals by the customer. Quanta recognizes amounts associated with change orders and claims as costs of contract performance in the period incurred if it is not probable that the amounts will be recovered or 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 June 30, 2018 and December 31, 2017, Quanta had recognized revenues of \$110.6 million and \$144.0 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 were included in "Contract assets" in the accompanying condensed consolidated balance sheets, represent management's estimates of additional contract revenues that had been earned and were probable of collection. The amount ultimately realized by Quanta cannot currently be determined but 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.

During the three and six months ended June 30, 2018, revenues were favorably impacted by \$15.8 million and \$47.4 million as a result of changes in estimates associated with performance obligations on fixed price contracts partially satisfied prior to March 31, 2018 and December 31, 2017. Quanta's operating results for the three months ended June 30, 2018 were favorably impacted by \$0.8 million, or 0.2% of gross profit, as a result of changes in estimates associated with performance obligations on fixed price contracts partially satisfied prior to March 31, 2018. Quanta's operating results for the six months ended June 30, 2018 were favorably impacted by \$14.2 million, or 2.2% of gross profit, as a result of changes in estimates associated with performance obligations on fixed price contracts partially satisfied prior to December 31, 2017. The three and six months ended June 30, 2018 included positive changes of \$16.6 million and \$26.3 million related to an electric transmission project in Canada, on which Quanta successfully executed through project procurement, winter schedule and productivity risks during the first half of the project, resulting in a decrease of the cost contingency amounts associated with the project. These positive changes were partially offset by negative changes in estimates on other ongoing projects.

Quanta's operating results for the three months ended June 30, 2017 were favorably impacted by \$28.8 million, or 9.5% of gross profit, as a result of changes in estimates associated with performance obligations on fixed price contracts partially satisfied prior to March 31, 2017. The impact for the three months endedJune 30, 2017 included \$24.6 million of positive changes in estimates on two natural gas pipeline projects that were nearing completion, which primarily related to the favorable mitigation of project risks and the release of related cost contingencies. Quanta's operating results for the six months ended June 30, 2017 were favorably impacted by \$31.0 million, or 5.5% of gross profit, as a result of changes in estimates associated with performance obligations on fixed price contracts partially satisfied prior to December 31, 2016.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

### Revenues by Category

The following tables present Quanta's revenue disaggregated by geographic location and contract type for the three and six months endedJune 30, 2018 (in thousands):

	Thre	ee Months Ended	Six Months Ended
		June 30, 2018	June 30, 2018
By primary geographic location:	'		
United States	\$	2,193,437	\$ 3,905,864
Canada		315,173	853,531
Australia		113,880	233,337
Latin America and Other		33,858	 81,192
Total revenues	\$	2,656,348	\$ 5,073,924

	1	Three Months Ended	5	Six Months Ended
		June 30, 2018		June 30, 2018
By contract type:				
Unit-price contracts	\$	1,018,145	\$	1,631,583
Fixed price contracts		1,032,991		2,258,080
Cost-plus contracts		605,212		1,184,261
Total revenues	\$	2,656,348	\$	5,073,924

### 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 the intent is 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 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 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):

		Jı	ine 30, 2018	December 31, 2017			
Contract assets	S	\$	551,505	\$	497,292		
Contract liabilities		\$	496 083	\$	433 387		

The increase in contract assets was primarily due to an increase in revenues for thesix months ended June 30, 2018 as compared to the six months ended June 30, 2017. The increase in contract liabilities was primarily due to an advanced billing position related to the electric transmission project in Canada mentioned above.

During the three and six months ended June 30, 2018, Quanta recognized revenue of approximately \$79 million and \$343 million related to contract liabilities outstanding at December 31, 2017.

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 until a later date, costs have been incurred but are yet to be billed or if amounts arise from routine lags in billing. Quanta also recognizes unearned revenues for non-fixed

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

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 \$11.4 million and \$16.0 million at June 30, 2018 and December 31, 2017.

Impairment losses recognized on contract assets were not material for the three and six months ended June 30, 2018.

Practical Expedients and Exemptions

Quanta utilizes certain practical expedients and exemptions associated with the new revenue recognition guidance. For example, Quanta elected the modified retrospective transition method, which allowed the guidance to be applied only to contracts that were not considered substantially complete as of January 1, 2018. Additionally, in cases where Quanta has a right to consideration from a customer in an amount that corresponds directly with the value of Quanta's performance completed to date, Quanta recognizes revenue in the amount to which it has a right to invoice and does not disclose such performance as a remaining performance obligation. Also, contract consideration is not adjusted for the effects of a significant financing component if payment is expected to be collected less than one year from when the services are performed.

#### 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 in those instances where Quanta 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 June 30, 2018, the total amount of unrecognized tax benefits relating to uncertain tax positions was\$35.4 million, a decrease from December 31, 2017 of \$0.8 million. This decrease resulted primarily from\$2.9 million of payments related to uncertain tax positions for tax years 2012, 2013 and 2014, partially offset by a\$2.1 million increase in reserves for uncertain tax positions to be taken for 2018. Although the Internal Revenue Service (IRS) completed its examination of Quanta's consolidated income tax return for tax years 2010, 2011 and 2012 during the year ended December 31, 2016, Quanta and certain subsidiaries remain under examination by various U.S. state and Canadian and other 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 \$13.7 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 are 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, consolidated statements of operations and consolidated 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 and resulted in a reduction of Quanta's future effective tax rate and a remeasurement of its deferred tax assets and liabilities.

The Tax Act, among other things, 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 of \$70.1 million, including \$85.3 million of tax benefits associated with the re-measurement of U.S. federal deferred tax assets and liabilities based on expected future rates (generally 21%), partially offset by an estimated \$15.2 million transition tax on post-1986 earnings and profits of certain foreign subsidiaries. For the year ended December 31, 2017, an additional one-time tax benefit of \$26.7 million was recorded in connection with entity restructuring and

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

recapitalization transactions completed by Quanta, which was partially offset by an \$8.5 million decrease in the production activity-related tax benefit that resulted from acceleration of certain deductions into 2017.

While Quanta has substantially completed its provisional analysis of the effects of the Tax Act and recorded a reasonable estimate of such effects, the net one-time benefits and calculation of income tax expense related to the Tax Act may differ, possibly materially, due to, among other things, further refinement of Quanta's calculations, changes in interpretations and assumptions made, additional regulatory guidance, and actions and related accounting policy decisions resulting from the Tax Act. For example, the Tax Act imposes a tax on global intangible low-taxed income (GILTI), and it is unclear if GILTI should be included in the period in which it is incurred or whether deferred tax assets and liabilities should be recognized for basis differences expected to reverse as GILTI in future years. Quanta continues to analyze the impacts of the GILTI provision; however, due to the complexity of the new rules, Quanta's analysis is not yet complete. Accordingly, Quanta has not yet made an accounting policy election related to GILTI. Quanta will complete its analysis of the Tax Act over the one-year measurement period ending December 22, 2018, and any adjustments during the measurement period will be included within "Net income" as an adjustment to "Provision for income taxes" on Quanta's consolidated statement of operations in the reporting period when such adjustments are determined.

#### 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 8), which are 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 for each of the three and six months ended June 30, 2018 included 2.6 million weighted average participating securities. Weighted average shares outstanding for basic and diluted earnings per share attributable to common stock for the three and six months ended June 30, 2017 included 2.3 million and 2.5 million weighted average participating securities. 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.

#### Insurance

Quanta is insured for employer's liability, workers' compensation, auto liability and general liability claims. Under these programs, the deductible for employer's liability is \$1.0 million per occurrence, the deductible for workers' compensation is \$5.0 million per occurrence, and the deductibles for auto liability and general liability are\$10.0 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. 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 \$0.5 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

Some of Quanta's operating units are parties to various 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 their union employees and contribute certain amounts to multiemployer pension plans and employee benefit trusts. 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. 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 the projects Quanta has ongoing at that time and the need for union resources in connection with

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

those projects. Therefore, Quanta is unable to accurately predict the union employee payroll and the amount of the resulting multiemployer pension plan contribution obligations for future periods.

### Stock-Based Compensation

Quanta recognizes compensation expense for restricted stock, restricted stock units (RSUs) and performance units to be settled in common stock based on the fair value of the awards, net of estimated forfeitures. The fair value of these awards is generally determined based on the number of shares or units granted and the closing price of Quanta's common stock on the date of grant, with the exception of performance units with market-based metrics, the fair value of which is determined using a Monte Carlo simulation valuation methodology. An estimate of future forfeitures, based on historical data, is utilized to determine the period expense. Such estimates are subject to change and may impact the value that will ultimately be recognized as compensation expense. The resulting compensation expense for performance unit 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 performance units can also vary from period to period based on changes in the total number of shares of common stock that Quanta anticipates will be issued upon vesting of such performance units. 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 on the settlement date of one share of Quanta common stock, as specified in the applicable award agreement. For additional information on Quanta's restricted stock, RSU and performance unit awards, see Note 9.

### 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, Australia and Latin America, 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. The treatment of foreign currency translation gains or losses is dependent upon management's determination of the functional currency, and 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)" in the accompanying condensed 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. Further details are presented in Note 10.

### 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.

Contingent Consideration Liabilities. As of June 30, 2018 and December 31, 2017, financial instruments required to be measured at fair value on a recurring basis consisted primarily of Quanta's liabilities related to contingent consideration associated

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

with certain acquisitions, the payment of which is contingent upon the future performance of the acquired businesses and, if earned, would be payable to the former owners of the acquired businesses. The liabilities recorded represent the estimated fair values of future amounts payable to the former owners, and the fair values are estimated by management based on entity-specific assumptions that are evaluated on an ongoing basis. As of June 30, 2018 and December 31, 2017, the aggregate fair value of these outstanding and unearned contingent consideration liabilities totaled \$73.0 million and \$65.7 million, which was included in "Insurance and other non-current liabilities" in the accompanying condensed consolidated balance sheets.

The fair value of contingent consideration liabilities as of June 30, 2018 was 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. The expected volatility factors ranged from 23.0% to 30.0% based on historical asset volatility of selected guideline public companies. Depending on contingent consideration payment terms, the present value of the estimated payments are discounted based on a risk-free rate and/or Quanta's cost of debt, ranging from 2.1% to 3.4%. The fair value determinations incorporate significant inputs not observable in the market. 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 expects a significant portion of these liabilities to be settled by late 2020 or early 2021.

The majority of Quanta's contingent consideration liabilities are subject to a maximum payment amount, and the aggregate maximum payout amount for these liabilities was \$154.4 million as of June 30, 2018. One contingent consideration liability is not subject to a maximum payout amount, and the fair value of that liability was\$1.0 million as of June 30, 2018.

Quanta's aggregate contingent consideration liabilities can change due to additional business acquisitions, payments to settle outstanding liabilities, changes in the fair value of amounts owed, and foreign currency translation gains or losses. During the three months ended June 30, 2018, there were no acquisitions, and during thesix months ended June 30, 2018, one acquisition increased Quanta's contingent consideration liabilities by \$13.7 million. There was no increase to Quanta's contingent consideration liabilities due to acquisitions during the three and six months ended June 30, 2017. During the three andsix months ended June 30, 2018 and 2017, Quanta madeno payments related to contingent consideration liabilities. During the three and six months ended June 30, 2018, there was a \$6.3 million decrease in the fair value of contingent consideration liabilities primarily due to changes in forecasted performance for two acquired companies. The change in fair value of contingent consideration liabilities has been reflected in operating income on Quanta's consolidated statements of operations.

Goodwill and Other Intangible Assets. In connection with Quanta's acquisitions, identifiable intangible assets acquired typically include goodwill, backlog, customer relationships, trade names, covenants not-to-compete, patented rights and developed technology and curriculum. Quanta utilizes the fair value premise as the primary basis for its valuation procedures, which is a market-based approach to determine the price that would be received upon the sale of an asset or paid to transfer a liability in an orderly transaction between market participants. Quanta periodically engages the services of an independent valuation firm when a new business is acquired to assist management with this valuation process, including assistance with the selection of appropriate valuation methodologies and the development of market-based valuation assumptions. Based on these considerations, management utilizes various valuation methods, including an income approach, a market approach and a cost approach, to determine the fair value of intangible assets acquired based on the appropriateness of each method in relation to the type of asset being valued. The assumptions used in these valuation methods are analyzed and compared, where possible, to available market data, such as industry-based weighted average costs of capital and discount rates, trade name royalty rates, public company valuation multiples and recent market acquisition multiples. In accordance with its annual impairment test during the quarter ended December 31, 2017, the carrying amounts of such assets, including goodwill, were compared to their fair values. The level of inputs used for these fair value measurements is the lowest level (Level 3). Quanta uses the assistance of third party specialists to develop valuation assumptions. Quanta believes that these valuation methods appropriately represent the methods that would be used by other market participants in determining fair value.

Investments and Financial Instruments. Quanta also uses fair value measurements in connection with the valuation of its investments in private company equity interests and financial instruments. These valuations require significant management judgment due to the absence of quoted market prices, the inherent lack of liquidity and the long-term nature of such assets. 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 realizable. If an other-than-temporary decline in the value of an investment occurs, a fair value analysis would be performed to determine the degree to which the investment was impaired and a corresponding charge to earnings would be 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 judgment and available relevant market data. Such market data may include observations of the valuation of

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

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).

Other. The carrying amounts of cash equivalents, accounts receivable and accounts payable and accrued expenses approximate fair value due to the short-term nature of these instruments. The carrying amount of variable rate debt also approximates fair value. All of Quanta's cash equivalents were categorized as Level 1 assets at June 30, 2018 and December 31, 2017, as all values were based on unadjusted quoted prices for identical assets in an active market that Quanta has the ability to access.

Additionally, during the three months ended June 30, 2018, Quanta recorded a \$3.3 million charge associated with the planned exchange of a construction barge for an industrial property, and during the three months ended March 31, 2017, Quanta recorded a \$1.9 million charge associated with the planned disposition of the same construction barge, which was not consummated.

### 3. NEW ACCOUNTING PRONOUNCEMENTS:

### Adoption of New Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board (FASB) issued an update that superseded mostrevenue recognition guidance, as well as certain cost recognition guidance. The update, together with other clarifying updates, requires that the recognition of revenue related to the transfer of goods or services to customers reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. The update also requires additional qualitative and quantitative disclosures about the nature, amount, timing and uncertainty of revenues and cash flows arising from customer contracts, including significant judgments and changes in judgments, and information about contract balances and performance obligations.

Quanta adopted the new revenue recognition guidance using the modified retrospective transition method effectiveJanuary 1, 2018, applying the guidance to contracts that were not substantially complete as of such date. Quanta's financial results for reporting periods after January 1, 2018 have been and will be presented under the new guidance, while financial results for prior periods will continue to be reported in accordance with the prior guidance and Quanta's historical accounting policy. The net cumulative adjustment resulting from adoption was a \$1.8 million reduction to retained earnings as of January 1, 2018, which primarily related to certain contracts that are now accounted for as a single performance obligation but were previously accounted for separately for revenue recognition purposes.

Quanta has not experienced significant changes to the pattern of revenue recognition for its contracts, the identification of contracts and performance obligations or the measurement of variable consideration. For the three and six months ended June 30, 2018, the impact related to the adoption of the new revenue recognition guidance on revenues, contract assets and contract liabilities was immaterial. Quanta has also expanded its discussion in Note 2 above to address the quantitative and qualitative disclosure requirements of the new revenue recognition standard.

In January 2016, the FASB issued an update that addresses certain aspects of recognition, measurement, presentation, and disclosure offinancial instruments to provide users of financial statements with more decision-useful information. This update requires equity investments (except those accounted for under the equity method of accounting or those that result in consolidation of the investee) to be measured at fair value with changes in fair value recognized in net income. However, an entity may choose to measure equity investments that do not have readily determinable fair values at cost minus impairment, if any, plus or minus changes resulting from observable price changes in orderly transactions for the identical or a similar investment of the same issuer. Quanta adopted the new standard effective January 1, 2018. Quanta's equity investments that are within the scope of this update do not have readily determinable fair values. Accordingly, Quanta continues to measure these investments at cost less any impairments and also considers changes resulting from any observable price changes as described above. The new standard is not expected to have a material impact on Quanta's consolidated financial statements in the near-term based on the equity investments held at the time of adoption.

In August 2016, the FASB issued an update intended to standardize the classification of certain transactions on the statements ofcash flows. These transactions include contingent consideration payments made after a business combination, proceeds from the settlement of insurance claims, proceeds from the settlement of corporate-owned life insurance policies and distributions received from equity method investments. The new standard requires application using a retrospective transition method. Quanta adopted this guidance effective January 1, 2018, and the changes did not have a material impact on its consolidated financial statements.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

In October 2016, the FASB issued an update that requires a reporting entity to recognize thetax expense from the sale of an asset in the seller's tax jurisdiction when the transfer occurs, even though the pre-tax effects of that transaction are eliminated in consolidation. Any deferred tax asset that arises in the buyer's jurisdiction should be recognized at the time of the transfer. The new guidance does not apply to intra-entity transfers of inventory. The income tax consequences from the sale of inventory from one member of a consolidated entity to another will continue to be deferred until the inventory is sold to a third party. Quanta adopted this guidance effective January 1, 2018 utilizing the modified retrospective method, and the changes did not have a material impact on its consolidated financial statements.

In November 2016, the FASB issued an update intended to standardize the classification of restricted cash and cash equivalents transactions on the statement ofcash flows. The new guidance requires net cash withdrawn from (deposited to) restricted cash to be removed from investing activities. Additionally, restricted cash balances for each period are included with "Cash and cash equivalents" in order to obtain beginning and ending balances for condensed consolidated statement of cash flow purposes, and any activity between "Cash and cash equivalents" and restricted cash is no longer reported on Quanta's consolidated statements of cash flows. Quanta adopted this guidance effective January 1, 2018 utilizing the retrospective transition method, and the changes did not have a material impact on its consolidated financial statements. See Note 12 for reconciliations of "Cash and cash equivalents" and restricted cash.

In January 2017, the FASB issued an update intended to clarify whether transactions should be accounted for as acquisitions or disposals of assets orbusinesses. When substantially all of the fair value of the gross assets acquired or disposed of is concentrated in a single identifiable asset or group of similar identifiable assets, the asset or group is not a business. The update requires, among other things, that to be considered a business, a set of assets and activities must include, at a minimum, an input and a substantive process that together significantly contribute to the ability to create output. Additionally, the update removes the evaluation of whether a market participant could replace missing elements in order to consider the set of assets and activities a business, provides more stringent criteria for sets without outputs and narrows the definition of output. Quanta adopted this guidance effective January 1, 2018 utilizing the prospective transition method, and the changes did not materially impact its consolidated financial statements.

In May 2017, the FASB issued an update providing guidance about which changes to the terms or conditions of ashare-based payment award require an entity to apply modification accounting. A modification should be accounted for unless the following characteristics of the award are unchanged: the fair value, the vesting conditions and the classification as an equity instrument or a liability instrument. Quanta adopted this guidance effective January 1, 2018 using the prospective transition method, and the changes did not materially impact its consolidated financial statements.

### Accounting Standards Not Yet Adopted

In February 2016, the FASB issued an update that requires the recognition of operatinglease right-of-use assets and the corresponding lease liabilities on the balance sheet. The new standard is effective for interim and annual periods beginning after December 15, 2018. In July 2018, the FASB issued an update that provides entities a choice between the previously required modified retrospective transition method and another transition method that allows entities to initially apply the new standard at the adoption date and recognize a cumulative-effect adjustment to the opening balance of retained earnings in the period of adoption. While Quanta continues to evaluate the effect of this standard on its consolidated financial statements, it is anticipated that adoption will result in a significant amount of lease right-of-use assets and corresponding lease liabilities being recorded on its consolidated balance sheets. Quanta has established a cross-functional team to implement this standard and is in the process of evaluating arrangements that will be subject to the standard, is implementing software to meet the reporting and disclosure requirements of the standard and is assessing the impact of the standard on its processes and internal controls. The standard is not expected to have a material impact on Quanta's compliance with the financial covenants under its senior secured revolving current credit facility. Quanta will adopt this guidance effective January 1, 2019 and will apply the transition method that allows the recognition of a cumulative-effect adjustment to retained earnings on such date.

In June 2016, the FASB issued an update that will change the way companies measurecredit losses for most financial assets and certain other instruments that are not measured at fair value through net income. The update will require companies to use an "expected loss" model for instruments measured at amortized cost and to record allowances for available-for-sale debt securities rather than reduce the carrying amounts. The update will also require 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. Companies will apply this standard's provisions as a cumulative-effect adjustment to retained earnings as of the beginning of the first reporting period in which the guidance is effective. The new standard is effective for interim and annual

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

reporting periods beginning after December 15, 2019. Quanta is currently evaluating the potential impact of this authoritative guidance on its consolidated financial statements and will adopt this guidance effective January 1, 2020.

In August 2017, the FASB issued an update which amends and simplifies existing guidance for presenting the economic effects ofrisk management activities in the financial statements. The update is effective for interim and annual periods beginning after December 15, 2018. The amended presentation and disclosure guidance is required only prospectively, but certain amendments, if applicable, could require a cumulative-effect adjustment. Quanta is evaluating the impact of this new standard on its consolidated financial statements and will adopt the new standard effective January 1, 2019; however, as of June 30, 2018, Quanta had no hedging relationships outstanding.

### 4. ACQUISITIONS:

In January 2018, Quanta acquired an electrical infrastructure services business specializing in substation construction and relay services and a postsecondary educational institution that provides pre-apprenticeship training and programs for experienced linemen, both of which are located in the United States. The aggregate consideration for these acquisitions was \$51.3 million paid or payable in cash, subject to certain adjustments, and379,817 shares of Quanta common stock, which had a fair value of approximately \$13.5 million as of the respective acquisition dates. Included in the cash consideration was\$12.1 million paid in the second quarter of 2018 for the purchase of certain properties and training facilities related to the postsecondary educational institution. Additionally, the acquisition of the postsecondary educational institution includes the potential payment of up to \$15.0 million of contingent consideration, payable if the acquired business achieves certain performance objectives over afive-year post-acquisition period. Based on the estimated fair value of this contingent consideration, Quanta recorded a \$13.7 million liability as of the acquisition date. The results of the acquired businesses have generally been included in Quanta's Electric Power Infrastructure Services segment and consolidated financial statements beginning on the acquisition dates.

On July 20, 2017, Quanta acquired Stronghold, a specialized services business located in the United States that provides high-pressure and critical-path solutions to the downstream and midstream energy markets. The aggregate consideration included \$351.0 million in cash, subject to certain adjustments, and 2,693,680 shares of Quanta common stock, which had a fair value of \$81.3 million at the acquisition date. Additionally, the acquisition includes the potential payment of up to \$100.0 million of contingent consideration, payable if the acquired business achieves certain performance objectives over a three-year post-acquisition period. Based on the estimated fair value of this contingent consideration, Quanta recorded a \$51.1 million liability as of the acquisition date. The results of the acquired business have generally been included in Quanta's Oil and Gas Infrastructure Services segment and consolidated financial statements since the acquisition date.

During the year ended December 31, 2017, Quanta also acquired a communications infrastructure services business and an electrical and communications business, both of which are located in the United States. The aggregate consideration for these acquisitions consisted of \$12.0 million paid or payable in cash, subject to certain adjustments, and 288,666 shares of Quanta common stock, which had a fair value of \$8.3 million as of the acquisition dates. The results of the acquired businesses have generally been included in Quanta's Electric Power Infrastructure Services segment and consolidated financial statements since the acquisition dates.

Quanta is in the process of finalizing its assessments of the fair values of the acquired assets and assumed liabilities related to businesses acquired subsequent toJune 30, 2017, and further adjustments to the purchase price allocations may occur. As ofJune 30, 2018, the estimated fair values of the net assets acquired were preliminary, with possible updates primarily related to certain tax estimates. The aggregate purchase consideration of the businesses acquired subsequent to June 30, 2017 through June 30, 2018 was allocated to acquired assets and assumed liabilities, which resulted in allocations of \$107.7 million to net tangible assets, \$116.6 million to identifiable intangible assets and \$344.2 million to goodwill.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

The following table summarizes the aggregate consideration paid or payable as ofJune 30, 2018 for the 2018 acquisitions and 2017 acquisitions 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 is 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. Third-party appraisal firms are engaged to assist in fair value determination of fixed assets, intangible assets and certain other assets and liabilities when appropriate (in thousands).

	2018		2018			
	All A	All Acquisitions		Stronghold	Othe	r Acquisitions
Consideration:						
Cash paid or payable	\$	51,345	\$	351,014	\$	11,955
Value of Quanta common stock issued		13,549		81,337		8,267
Contingent consideration		13,705		51,084		_
Fair value of total consideration transferred or estimated to be transferred	\$	78,599	\$	483,435	\$	20,222
	-					
Accounts receivable	\$	4,436	\$	77,478	\$	7,157
Contract assets		_		11,913		193
Other current assets		5,722		20,914		170
Property and equipment		17,516		51,258		1,480
Other assets		325		1,513		12
Identifiable intangible assets		19,836		95,700		8,091
Contract liabilities		_		(13,489)		(93)
Other current liabilities		(8,238)		(58,346)		(2,705)
Deferred tax liabilities, net		(4,179)		_		_
Other long-term liabilities		_		(48)		_
Total identifiable net assets		35,418		186,893		14,305
Goodwill		43,181		296,542		5,917
	\$	78,599	\$	483,435	\$	20,222

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. The 2018 and 2017 acquisitions strategically expanded Quanta's domestic electric power, oil and gas and communications service offerings, which Quanta believes contributes to the recognition of the goodwill. In connection with the 2018 acquisitions, as of the acquisition dates, goodwill of \$43.2 million was recorded for the acquired businesses that were included within Quanta's Electric Power Infrastructure Services Division. In connection with the 2017 acquisitions, as of the acquisition dates and inclusive of purchase price adjustments, goodwill of \$5.9 million was recorded for the acquired businesses that were included within Quanta's Electric Power Infrastructure Services Division, and goodwill of \$296.5 million was recorded for Stronghold, which is included within Quanta's Oil and Gas Infrastructure Services Division. Goodwill of \$9.8 million related to the 2018 acquisitions is expected to be deductible for income tax purposes.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

The following table summarizes the estimated fair values of identifiable intangible assets for the 2018 acquisitions 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).

	Estim	ated Fair Value	Weighted Average Amortization Period in Years
Customer relationships	\$	3,328	5.0
Backlog		1,055	1.0
Trade names		6,257	15.0
Non-compete agreements		196	5.0
Curriculum		9,000	10.0
Total intangible assets subject to amortization acquired in 2018 acquisitions	\$	19,836	10.2

The following unaudited supplemental pro forma results of operations 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):

	Three Months Ended				Six Months Ended					
	Jun		June 30,							
	 2018		2017		2018		2017			
Revenues	\$ 2,656,348	\$	2,323,996	\$	5,077,992	\$	4,627,463			
Gross profit	\$ 333,371	\$	334,454	\$	636,226	\$	633,461			
Selling, general and administrative expenses	\$ 206,104	\$	208,437	\$	422,537	\$	415,863			
Amortization of intangible assets	\$ 10,507	\$	10,740	\$	21,168	\$	21,665			
Net income	\$ 74,706	\$	66,371	\$	113,610	\$	116,797			
Net income attributable to common stock	\$ 74,365	\$	65,848	\$	112,272	\$	116,101			
Earnings per share attributable to common stock:										
Basic	\$ 0.49	\$	0.42	\$	0.72	\$	0.73			
Diluted	\$ 0.48	\$	0.41	\$	0.72	\$	0.73			

The pro forma combined results of operations for the three andsix months ended June 30, 2018 and 2017 were prepared by adjusting the historical results of Quanta to include the historical results of the 2018 acquisitions as if they occurred January 1,2017 and the historical results of the 2017 acquisitions as if they occurred January 1,2016. 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 net of cash received; an increase in amortization expense due to the incremental intangible assets recorded; changes in depreciation expense to adjust acquired property and equipment to the acquisition date fair value and to conform with Quanta's accounting policies; an increase in the number of outstanding shares of Quanta common stock; and reclassifications to conform the acquiried businesses' presentation to Quanta's accounting policies. The pro forma 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 approximately \$1.2 million and a loss before income taxes of approximately \$1.3 million, which included \$0.4 million of acquisition-related costs, were included in Quanta's consolidated results of operations for the three months ended June 30, 2018 related to the 2018 acquisitions. Revenues of approximately \$1.3 million and a loss before income taxes of approximately \$6.6 million, which included \$6.0 million of acquisition-related costs, were included in Quanta's consolidated results of operations for the six months ended June 30, 2018 related to the 2018 acquisitions.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

### 5. GOODWILL AND OTHER INTANGIBLE ASSETS:

A summary of changes in Quanta's goodwill is as follows (in thousands):

	Electric Power Infrastructure Services Division		Oil and Gas Infrastructure Services Division		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 recorded related to 2018 acquisitions		43,181		_	43,181
Purchase price allocation adjustments		51		_	51
Foreign currency translation adjustments		(8,772)		(5,396)	(14,168)
Balance at June 30, 2018:					
Goodwill		1,306,987		687,789	1,994,776
Accumulated impairment		_		(97,112)	(97,112)
	\$	1,306,987	\$	590,677	\$ 1,897,664

Also, 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 above. 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.

Quanta's intangible assets and the remaining weighted average amortization periods related to Quanta's intangible assets subject to amortization were as follows (in thousands except for weighted average amortization periods, which are in years):

	As of June 30, 2018						As of December 31, 2017					As of June 30, 2018		
	Intangible Assets		0		Intangible Assets, Net				Intangible Assets		Accumulated Amortization	Intangible Assets, Net		Remaining Weighted Average Amortization Period in Years
Customer relationships	\$ 326,181	\$	(150,677)	\$	175,504	\$	327,334	5	(137,333)	\$	190,001	6.8		
Backlog	135,772		(134,885)		887		136,266		(135,847)		419	0.7		
Trade names	80,279		(19,289)		60,990		74,797		(17,057)		57,740	15.8		
Non-compete agreements	37,601		(28,843)		8,758		37,760		(27,659)		10,101	3.6		
Patented rights and developed technology	22,507		(18,427)		4,080		22,529		(17,611)		4,918	2.9		
Curriculum	9,000		(399)		8,601		_		_		_	9.6		
Total intangible assets subject to amortization	611,340		(352,520)		258,820		598,686	_	(335,507)		263,179	8.8		
Engineering license	3,000		_		3,000		_		_		_			
Total intangible assets	\$ 614,340	\$	(352,520)	\$	261,820	\$	598,686	5	335,507)	\$	263,179			

Amortization expense for intangible assets was \$10.5 million and \$6.5 million for the three months ended June 30, 2018 and 2017 and \$20.9 million and \$13.1 million for the six months ended June 30, 2018 and 2017.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

The estimated future aggregate amortization expense of intangible assets subject to amortization as of June 30, 2018 is set forth below (in thousands):

For the Fiscal Year Ending December 31,	
Remainder of 2018	\$ 20,880
2019	38,683
2020	37,265
2021	34,932
2022	31,403
Thereafter	95,657
Total	\$ 258,820

### 6. PER SHARE INFORMATION:

The amounts used to compute basic and diluted earnings per share attributable to common stock for the three andsix months ended June 30, 2018 and 2017 is illustrated below (in thousands):

	Three Months Ended					Six Mont		ed
		Jun	e 30,		June 30,			
		2018		2017 2018				2017
Amounts attributable to common stock:								
Net income attributable to common stock	\$	74,365	\$	63,837	\$	111,979	\$	112,104
	-		-					
Weighted average shares:								
Weighted average shares outstanding for basic earnings per share attributable to								
common stock		153,325		155,090		154,906		154,859
Effect of dilutive unvested non-participating stock-based awards		1,270		1,075		1,206		886
Weighted average shares outstanding for diluted earnings per share attributable to common stock		154,595		156,165		156,112		155,745

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 8), which are 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 for each of the three and six months ended June 30, 2018 included 2.6 million weighted average participating securities. Weighted average participating securities.

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.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

### 7. DEBT OBLIGATIONS:

Quanta's long-term debt obligations consisted of the following (in thousands):

	June 30, 2018			December 31, 2017
Borrowings under credit facility	\$	840,198	\$	668,427
Other long-term debt, interest rate of 2.4%		1,657		1,810
Capital leases, interest rates ranging from 2.5% to 3.8%		1,464		1,704
Total long-term debt obligations		843,319		671,941
Less — Current maturities of long-term debt		2,577		1,220
Total long-term debt obligations, net of current maturities	\$	840,742	\$	670,721

Quanta's current maturities of long-term debt and short-term debt consisted of the following (in thousands):

	Ju	ne 30, 2018	]	December 31, 2017
Short-term debt	\$	12,922	\$	_
Current maturities of long-term debt		2,577		1,220
Current maturities of long-term debt and short-term debt	\$	15,499	\$	1,220

#### Senior Secured Revolving Credit Facility

On December 18, 2015, Quanta entered into an amended and restated credit agreement with various lenders that provides for a\$1.81 billion senior secured revolving credit facility. On October 31, 2017, Quanta and the lenders entered into an amendment to the credit facility which, among other things, extended the maturity date from December 18, 2020 to October 31, 2022 and adjusted the interest rates applicable to certain borrowings. 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. Up to \$600.0 million of the credit facility may be used by certain subsidiaries of Quanta for revolving loans and letters of credit in certain alternative currencies. Up to \$100.0 million of the credit facility may be used for swing line loans in U.S. dollars, up to \$50.0 million of the credit facility may be used for swing line loans in Australian dollars. In addition, subject to the conditions specified in the credit agreement, Quanta has the option to increase the revolving commitments by up to \$400.0 million from time to time upon receipt of additional commitments from new or existing lenders. Borrowings under the credit agreement are to be used to refinance existing indebtedness and for working capital, capital expenditures and other general corporate purposes.

As of June 30, 2018, Quanta had \$439.9 million of outstanding letters of credit and bank guarantees under its credit facility, \$240.7 million of which were denominated in U.S. dollars and \$199.2 million of which were denominated in currencies other than the U.S. dollar, primarily in Australian or Canadian dollars. Quanta also had \$840.2 million of outstanding revolving loans under its credit facility, \$770.6 million of which were denominated in U.S. dollars and \$69.6 million of which were denominated in Australian dollars. The remaining \$529.9 million was available for revolving loans or new letters of credit or bank guarantees. Borrowings under the credit facility and the applicable interest rates during the three months ended June 30, 2018 and 2017 were as follows (dollars in thousands):

	Three Months Ended				Six Months Ended					
	 June 30,				June 30,					
	2018		2017		2018		2017			
Maximum amount outstanding under the credit facility during the period	\$ 1,053,598	\$	601,062	\$	1,053,598	\$	601,062			
Average daily amount outstanding under the credit facility	\$ 922,719	\$	518,779	\$	804,490	\$	464,432			
Weighted-average interest rate	3.62% 2.4		2.49%	2.49% 3.50%			2.54%			

Beginning on November 20, 2017, amounts 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 (as described below), or (ii) the Base Rate (as described below) plus 0.125% to 1.000%, as determined based on Quanta's Consolidated Leverage Ratio. Amounts borrowed as revolving loans under the credit agreement in any currency other than U.S. dollars bear interest at a rate equal to the Eurocurrency Rate plus 1.125% to 2.000%, as determined based on

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

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.

From December 18, 2015 through November 19, 2017, amounts borrowed in U.S. dollars bore interest, at Quanta's option, at a rate equal to either (i) the Eurocurrency Rate plus 1.125% to 2.125%, as determined based on Quanta's Consolidated Leverage Ratio, or (ii) the Base Rate plus 0.125% to 1.125%, as determined based on Quanta's Consolidated Leverage Ratio. Amounts borrowed as revolving loans under the credit agreement in any currency other than U.S. dollars bore interest at a rate equal to the Eurocurrency Rate plus 1.125% to 2.125%, as determined based on Quanta's Consolidated Leverage Ratio. Standby or commercial letters of credit issued under the credit agreement were subject to a letter of credit fee of 1.125% to 2.125%, based on Quanta's Consolidated Leverage Ratio, and Performance Letters of Credit issued under the credit agreement in support of certain contractual obligations were subject to a letter of credit fee of 0.675% to 1.275%, based on Quanta's Consolidated Leverage Ratio.

Quanta is also subject to a commitment fee of 0.20% to 0.40%, based on its Consolidated Leverage Ratio, on any unused availability under the credit agreement.

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. Base Rate equals the highest of (i) the Federal Funds Rate (as defined in the credit agreement) plus0.5%, (ii) the prime rate publicly announced by Bank of America, N.A. and (iii) the Eurocurrency Rate plus 1.00%. 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).

Subject to certain exceptions, the credit agreement is secured by substantially all the assets of Quanta and Quanta's wholly owned U.S. subsidiaries and by a pledge of all of the capital stock of Quanta's wholly owned U.S. subsidiaries and 65% of the capital stock of direct foreign subsidiaries of Quanta's wholly owned U.S. subsidiaries. Quanta's wholly owned U.S. subsidiaries also guarantee the repayment of all amounts due under the credit agreement. Subject to certain conditions, all collateral will automatically be released from the liens at any time Quanta maintains an Investment Grade Rating (defined in the credit agreement as two of the following three conditions being met: (i) a corporate credit rating that is BBB- or higher by Standard & Poor's Rating Services, (ii) a corporate family rating that is Baa3 or higher by Moody's Investors Services, Inc. or (iii) a corporate credit rating that is BBB- or higher by Fitch Ratings, Inc.).

The credit agreement contains certain covenants, including (i) a maximum Consolidated Leverage Ratio of 3.0 to 1.0 (provided that in connection with certain permitted acquisitions in excess of \$200.0 million, such ratio is 3.5 to 1.0 for the fiscal quarter in which the acquisition is completed and the two subsequent fiscal quarters) and (ii) a minimum Consolidated Interest Coverage Ratio of 3.0 to 1.0. As of June 30, 2018, Quanta was in compliance with all of the covenants in 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 (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 credit agreement and/or cash and cash equivalents on hand.

The credit agreement provides for customary events of default and contains cross-default provisions with Quanta's underwriting, continuing indemnity and security agreement with its sureties and all of Quanta's other debt instruments exceeding \$100.0 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, terminate the commitments under the credit agreement, and foreclose on the collateral.

### Other Facilities

Quanta has also entered into bilateral credit agreements with various lenders that provide for up to\$48.0 million in aggregate availability in both U.S. dollars and certain alternative currencies, primarily Australian dollars. Quanta may utilize these facilities for, among other things, the issuance of letters of credit or bank guarantees and overdraft protection and had \$2.7 million of letters of credit and bank guarantees outstanding under these facilities at June 30, 2018.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

### 8. EQUITY:

#### Exchangeable Shares and Preferred Stock

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 may be exchanged at the option of the holders for Quanta common stock on a one-for-one basis. The holders of exchangeable shares can make an exchange only once in any calendar quarter and must exchange a minimum of either 50,000 shares or, if less, the total number of remaining exchangeable shares registered in the name of the holder making the request. Additionally, in connection with two of such acquisitions, Quanta issued one share of Quanta Series F preferred stock to voting trusts on behalf of the respective holders of the exchangeable shares issued in such acquisitions. The one share of Quanta Series F preferred stock was subsequently redeemed and retired effective October 6, 2017. All holders of exchangeable shares have rights equivalent to Quanta common stockholders with respect to dividends and other economic rights. Additionally, the share of Quanta Series G preferred stock provides the holder of the associated exchangeable shares voting rights in Quanta common stock equivalent to the number of exchangeable shares outstanding.

During the three months ended June 30, 2018 and 2017, no exchangeable shares were exchanged for Quanta common stock. During thesix months ended June 30, 2018 and 2017, 0.0 million and 2.5 million exchangeable shares were exchanged for Quanta common stock. As of June 30, 2018, the Quanta Series G preferred stock remained outstanding and 0.5 million exchangeable shares remained outstanding, of which 0.4 million were associated with the Quanta Series G preferred stock.

### Treasury Stock

General

Treasury stock is recorded at cost. Under Delaware corporate 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 upon vesting of restricted stock, RSUs and performance units settled in common stock are typically satisfied by Quanta making such tax payments and withholding the number of vested shares having a value on the date of vesting equal to the tax withholding obligation. For the settlement of these employee tax liabilities, Quanta withheld 0.4 million and 0.5 million shares of Quanta common stock during thesix months ended June 30, 2018 and 2017, with a total market value of \$14.2 million and \$17.8 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 performance units that vest but the settlement of which is deferred under Quanta's deferred compensation plans, Quanta records a notional amount to treasury stock and an offsetting amount to APIC. However, no shares are added to outstanding treasury stock at vesting as the shares of Quanta common stock associated with deferred equity awards are not issued. Upon settlement of the deferred equity awards and issuance of the associated Quanta common stock, the original accounting entry is reversed. The net amounts recorded to treasury stock and APIC related to the deferred compensation plans during the three months ended June 30, 2018 and 2017 were \$0.0 million, and the net amounts recorded to treasury stock and APIC related to the deferred compensation plans during thesix months ended June 30, 2018 and 2017 were \$3.3 million and \$3.4 million.

Stock repurchases

During the second quarter of 2017, Quanta's board of directors approved a stock repurchase program that authorizes Quanta to purchase, from time to time through June 30, 2020, up to \$300.0 million of its outstanding common stock (the 2017 Repurchase Program). Repurchases under the 2017 Repurchase Program can be made in open market and privately negotiated transactions. During the three and six months ended June 30, 2018, Quanta repurchased 0.6 million and 5.6 million shares of its common stock in the open market at a cost of \$20.0 million and \$193.9 million under the 2017 Repurchase Program, \$16.0 million and \$189.9 million of which was paid in cash as of June 30, 2018. During 2017, Quanta repurchased 1.4 million shares of its common stock in the open market at a cost of \$50.0 million under the 2017 Repurchase Program.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

#### Non-controlling Interests

Quanta holds interests in various entities through both joint venture entities that provide infrastructure 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 that may be entered into through the partnership structure Quanta has 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 parties' equity interests in these joint ventures have been accounted for as "Non-controlling interests" in Quanta's condensed consolidated balance sheets. Net income attributable to the other participants in the amounts of \$0.3 million and \$0.5 million for the three months ended June 30, 2018 and 2017 and \$1.3 million and \$0.7 million for the six months ended June 30, 2018 and 2017 has been accounted for as a reduction of net income in deriving "Net income attributable to common stock" in Quanta's condensed consolidated statements of operations.

The carrying amount of the investments held by Quanta in all of its VIEs was\$10.2 million and \$7.8 million at June 30, 2018 and December 31, 2017. The carrying amount of investments held by the non-controlling interests in these VIEs at June 30, 2018 and December 31, 2017 was \$2.8 million and \$4.1 million. During the three months ended June 30, 2018 and 2017, net distributions to non-controlling interests were \$0.7 million and \$0.4 million. During the six months ended June 30, 2018 and 2017, net distributions to non-controlling interests were \$1.7 million and \$1.4 million. There were also discharges of notes receivable from a joint venture partner of \$0.5 million and \$0.9 million during the three and six months ended June 30, 2018. There were no other changes in equity as a result of transfers to/from the non-controlling interests during the three and six months ended June 30, 2018 or 2017. See Note 10 for further disclosures related to Quanta's joint venture arrangements.

### 9. EQUITY-BASED COMPENSATION:

#### Stock Incentive Plans

On May 19, 2011, Quanta's stockholders approved the 2011 Omnibus Equity Incentive Plan (the 2011 Plan). The 2011 Plan provides for the award of non-qualified stock options, incentive (qualified) stock options, stock appreciation rights, restricted stock, RSUs, stock bonus awards, performance compensation awards (including performance units and cash bonus awards) or any combination of the foregoing. The purpose of the 2011 Plan is to attract and retain key personnel and provide participants with additional performance incentives by increasing their proprietary interest in Quanta. Employees, directors, officers, consultants or advisors of Quanta or its affiliates are eligible to participate in the 2011 Plan, as are prospective employees, directors, officers, consultants or advisors of Quanta who have agreed to serve Quanta in those capacities. On May 24, 2018, Quanta's stockholders approved an amendment to the 2011 Plan that, among other things, increased the number of shares of Quanta common stock that may be issued thereunder. An aggregate of 13,300,000 shares of Quanta common stock may be issued pursuant to awards granted under the 2011 Plan. Quanta also has a Restricted Stock Unit Plan (the RSU Plan), pursuant to which RSUs may be awarded to certain employees and consultants of Quanta's Canadian operations. The 2011 Plan and the RSU Plan are referred to as the Plans.

### RSUs to be Settled in Common Stock

During the three months ended June 30, 2018 and 2017, Quanta granted a nominal amount and 0.1 million of RSUs to be settled in common stock under the 2011 Plan with weighted average grant date fair values of \$36.38 and \$33.32. During the six months ended June 30, 2018 and 2017, Quanta granted 1.3 million and 1.2 million of RSUs to be settled in common stock under the 2011 Plan with weighted average grant date fair values of \$34.52 and \$37.76. 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 equal installments over a two-year, three-year or five-year period following the date of grant. Holders of RSUs to be settled in common stock are entitled to receive a cash dividend equivalent payment equal to any cash dividend payable on account of common shares.

During each of the three months ended June 30, 2018 and 2017, vesting activity consisted of 0.1 million of RSUs settled in common stock with an approximate fair value at the time of vesting of \$3.8 million. During the six months ended June 30, 2018 and 2017, vesting activity consisted of 1.3 million and 1.4 million of RSUs settled in common stock with an approximate fair value at the time of vesting of \$46.2 million and \$54.3 million.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

During the three months ended June 30, 2018 and 2017, Quanta recognized \$10.8 million and \$10.1 million of non-cash stock compensation expense related to RSUs to be settled in common stock. During the six months ended June 30, 2018 and 2017, Quanta recognized \$22.0 million and \$21.3 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 June 30, 2018, there was \$56.2 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 2.03 years.

#### Performance Units to be Settled in Common Stock

Performance units awarded pursuant to the 2011 Plan provide for the issuance of shares of common stock upon vesting. These performance units cliff-vest at the end of a three-year performance period based on achievement of certain performance metrics established by Quanta's compensation committee, including company performance goals and, with respect to certain awards, 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 performance units can range from 0% to 200% of the number of performance units, depending on the level of achievement, as determined by Quanta's compensation committee.

During the three months ended June 30, 2018 and 2017, Quanta did not grant any performance units to be settled in common stock under the 2011 Plan. During each of the six months ended June 30, 2018 and 2017, Quanta granted 0.3 million performance units to be settled in common stock under the 2011 Plan with a weighted average grant date fair value of \$12.24 and \$17.63 per unit. The grant date fair values for awards of performance units with market-based metrics, which were granted in thesix months ended June 30, 2018 and 2017, were determined using a Monte Carlo simulation valuation methodology using the following key inputs:

	2018	2017
Valuation date stock price based on the February 28, 2018 and March 22, 2017 closing stock prices	\$34.44	\$36.31
Expected volatility	34%	36%
Risk-free interest rate	2.39%	1.46%
Term in years	2.84	2.78

Quanta recognizes expense related to performance units with market-based metrics based on the probability of achievement of the underlying performance metrics, multiplied by the portion of the three-year period that has expired and the fair value of the total number of shares of common stock that Quanta anticipates will be issued based on such achievement. Quanta recognizes expense related to performance units without market-based metrics based on the portion of the three-year period that has expired multiplied by the fair value of the total number of shares of common stock that Quanta anticipates will be issued. During the three months ended June 30, 2018 and 2017, Quanta recognized \$2.7 million and \$1.4 million in compensation expense associated with performance units. During thesix months ended June 30, 2018 and 2017, Quanta recognized \$6.2 million and \$2.1 million in compensation expense associated with performance units. Such expense is recorded in selling, general and administrative expenses. During each of the three months ended June 30, 2018 and 2017, no performance units vested, and no shares of common stock were issued in connection with performance units. During each of the six months ended June 30, 2018 and 2017, 0.1 million performance units vested, and 0.1 million shares of common stock were issued in connection with performance units.

### RSUs to be Settled in Cash

Certain RSUs granted by Quanta under the Plans 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 equity ownership in Quanta, typically vest in equal installments over a two-year or three-year period 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 cash settle a portion of their RSU awards, which generally vest upon conclusion of the director service year. 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\$1.5 million and \$1.2 million for the three months ended June 30, 2018 and 2017 and \$2.8 million and \$3.9 million for the six months ended June 30, 2018 and 2017. 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 earnings per share, and the estimated earned value of such RSUs is classified as a liability. Quanta paid \$3.8 million and \$3.8 million to settle liabilities related to cash-settled RSUs in the three months endedJune 30, 2018 and 2017 and \$6.0 million and \$6.1 million to settle liabilities related to cash-settled RSUs in the six months endedJune 30, 2018 and 2017. Accrued liabilities

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

for the estimated earned value of outstanding RSUs to be settled in cash were\$1.4 million and \$4.6 million at June 30, 2018 and December 31, 2017.

### 10. COMMITMENTS AND CONTINGENCIES:

### Investments in Affiliates and Other Entities

As described in Note 8, Quanta holds investments in various entities, including joint venture entities that provide infrastructure services under specific customer contracts and partially owned entities that own and operate certain infrastructure assets constructed by Quanta. 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 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 of the 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 these joint and several liabilities.

Additionally, in the joint venture structures entered into by Quanta, typically each party indemnifies the other party for any liabilities incurred in excess of the liabilities such other party is obligated to bear under the respective joint venture agreement or in accordance with the scope of work subcontracted to each party. It is possible, however, that Quanta could be required to pay or perform obligations in excess of its share if the other party is unable or refuses to pay or perform its 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.

During 2014, a limited partnership in which Quanta is a partner was selected for an engineering, procurement and construction (EPC) electric transmission project in Canada to construct approximately 500 kilometers of transmission line and two 500 kV substations. A subsidiary of Quanta, engaged by the limited partnership, is contracted to provide turnkey EPC services for the entire project. As of June 30, 2018, Quanta made aggregate contributions to this unconsolidated affiliate of \$63.9 million, received \$61.6 million as a return of capital and had outstanding additional capital commitments associated with this project of \$24.1 million, which are anticipated to be paid in 2019.

Additionally, as of June 30, 2018, Quanta had outstanding capital commitments associated with investments in unconsolidated affiliates related to planned oil and gas infrastructure projects of \$15.7 million, of which \$14.8 million is expected to be paid in 2018. The remaining \$0.9 million of these capital commitments is anticipated to be paid by May 31, 2022. As described in Note 2, Quanta has also formed a partnership with select infrastructure investors that provides up to\$1.0 billion of capital, including approximately \$80.0 million from Quanta, available to invest in certain specified infrastructure projects through August 2024.

#### Leases

Quanta leases certain land, buildings and equipment under non-cancelable lease agreements, including related party leases. The terms of these agreements vary from lease to lease, and certain leases include renewal options and escalation clauses. The following schedule shows the future minimum lease payments under these leases as of June 30, 2018 (in thousands):

	Operating Leases
Year Ending December 31 —	
Remainder of 2018	\$ 66,869
2019	94,590
2020	64,320
2021	40,995
2022	24,548
Thereafter	46,024
Total minimum lease payments	\$ 337,346

Rent expense related to operating leases was \$75.8 million and \$67.8 million for the three months ended June 30, 2018 and 2017 and \$151.8 million and \$132.8 million for the six months ended June 30, 2018 and 2017.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

Quanta has guaranteed the residual value on 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 termination of such leases. At June 30, 2018, the maximum guaranteed residual value was \$651.5 million. Quanta believes that no significant payments will be made as a result of the difference between the fair market value of the leased equipment and the guaranteed residual value; however, there can be no assurance that significant payments will not be required in the future.

### **Contingent Consideration Liabilities**

As discussed in further detail in Note 2, Quanta is obligated to pay contingent consideration amounts to the former owners of certain acquired businesses in the event that such acquired businesses achieve specified performance objectives. As of June 30, 2018 and December 31, 2017, the estimated fair value of Quanta's contingent consideration liabilities totaled \$73.0 million and \$65.7 million.

### **Committed Expenditures**

Quanta has capital commitments for the expansion of its vehicle fleet in order to accommodate manufacturer lead times on certain types of vehicles. As offune 30, 2018, \$48.2 million of production orders were issued with expected delivery dates in 2018, and \$1.1 million of production orders were issued with expected delivery dates in 2019. 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 to Quanta under certain of its 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 and/or property damages, employment-related damages, punitive 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.

Maurepas Project Dispute. During the third quarter of 2017, Maurepas Pipeline, LLC (Maurepas) notified QPS Engineering, LLC (QPS), a subsidiary of Quanta, of Maurepas' assertion of a 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. The matter remains subject to contractual dispute resolution measures; however, either party may choose to institute a formal legal proceeding upon completion of such measures. If, upon final resolution of this matter, Quanta is unsuccessful, any such liquidated damages would be recorded by QPS as additional costs on the project, and Quanta believes the range of reasonably possible loss could be up to \$22.0 million, which is the maximum liability for liquidated damages pursuant to the contract terms. In July and August 2018, Quanta received notice from Maurepas claiming certain warranty defects on the project. Quanta is currently evaluating the claimed defects. Based on the information currently available, no estimate of possible loss related to these claims can be determined.

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. In February 2018, a hearing was held on a final motion for summary judgment on damages filed by the plaintiff class seeking approximately \$11.1 million for its claims; however, a final determination regarding the amount of damages was not made. Quanta believes the court's decision on liability is not supported by controlling law and continues to contest its liability and the damage calculation asserted by the plaintiff class in this matter.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

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 ruling on liability, the final determination with respect to any 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 \$11.1 million, plus attorneys' fees and expenses of the plaintiff class.

### 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, money market mutual funds and investment grade commercial paper with original maturities of three months or less. 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 oil and gas companies, governmental entities, general contractors, and builders, owners and managers of commercial and industrial properties located primarily in the United States, Canada, Australia and Latin America. Consequently, Quanta is subject to potential credit risk related to changes in business and economic factors throughout these locations, which may be heightened as a result of uncertain economic and financial market conditions that have existed in recent years. However, Quanta generally has certain statutory lien rights with respect to services provided. Some of Quanta's customers have experienced significant financial difficulties in the past, and customers may experience financial difficulties in the future. These difficulties expose Quanta to increased risk related to coll

At June 30, 2018 and December 31, 2017, no customers represented 10% or more of Quanta's consolidated net receivable position. No customers represented 10% or more of Quanta's consolidated revenues for the three and six months ended June 30, 2018, and one customer within Quanta's Oil and Gas Infrastructure Services segment accounted for approximately 10% of Quanta's consolidated revenues for the three and six months ended June 30, 2017.

#### Insurance

As discussed in Note 2, Quanta is insured for employer's liability, workers' compensation, auto liability, general liability and group health claims. As of June 30, 2018 and December 31, 2017, the gross amount accrued for insurance claims totaled \$243.2 million and \$254.7 million, with \$185.0 million and \$200.0 million considered to be long-term and included in "Insurance and other non-current liabilities." Related insurance recoveries/receivables as of June 30, 2018 and December 31, 2017 were \$36.9 million and \$50.4 million, of which \$0.4 million and \$0.4 million were included in "Prepaid expenses and other current assets" and \$36.5 million and \$50.0 million were included in "Other assets. net."

### 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 secured revolving 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

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

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. Quanta does not believe that it is likely that any material claims will be made under a letter of credit in the foreseeable future.

As of June 30, 2018, Quanta had \$439.9 million in outstanding letters of credit and bank guarantees under its senior secured revolving 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 2018 and 2019. Quanta expects to renew the majority of the letters of credit related to the casualty insurance program for subsequent one-year periods upon maturity.

### Performance Bonds and Parent Guarantees

In certain circumstances, Quanta is required to provide performance bonds in connection with its contractual commitments. Quanta has indemnified its sureties for any expenses paid out under these performance bonds. These performance bonds expire at various times ranging from mechanical completion of the related projects 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 June 30, 2018, the total amount of the outstanding performance bonds was estimated to be approximately \$3.2 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 of its commitments under the performance bonds generally extinguishes concurrently with the expiration of its related contractual obligation. The estimated cost to complete these bonded projects was approximately \$864 million as of June 30, 2018.

Additionally, from time to time, Quanta guarantees the obligations of its wholly owned subsidiaries, including obligations in connection with certain contracts with customers, lease obligations, joint venture arrangements and, in some states, contractors' licenses. Quanta is not aware of any material obligations for performance or payment asserted against it under any of these guarantees.

### **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 equity-related benefits. Certain employment agreements also contain clauses that become effective upon a change in control of Quanta, and Quanta may be obligated to pay certain amounts to such employees upon the occurrence of any of the defined change in control events.

### Collective Bargaining Agreements

Some of Quanta's operating units are parties to various 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 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 their union employees and contribute certain amounts to multiemployer pension plans and employee benefit trusts. 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. 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 the projects Quanta has ongoing at any time and the need for union resources in connection with those projects. Therefore, Quanta is unable to accurately predict its union employee payroll and the amount of the resulting multiemployer pension plan contribution obligations for future periods.

The Pension Protection Act of 2006 also added special funding and operational rules 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, cash flow position and whether it 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 (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 in the future cannot be reasonably estimated due to uncertainty of the future levels of work that require the specific use of union employees covered by these plans, as well as the future contribution levels and possible surcharges on contributions applicable to these plans.

### NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

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 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 amounts of withdrawal liability 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.

### Indemnities

Quanta generally indemnifies its customers for the services it provides under its contracts, as well as 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. As of June 30, 2018, except as otherwise set forth above in *Legal Proceedings*, Quanta does not believe any material liabilities for claims exist against it in connection with any of these indemnity obligations.

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, and the indemnitors may be unwilling or unable to pay the amounts owed to Quanta. Accordingly, Quanta may incur expenses for which it is not reimbursed. Quanta is currently in the process of negotiating certain pre-acquisition obligations associated with non-U.S. payroll taxes that may be due from a business acquired by Quanta in 2013. As of June 30, 2018, Quanta had recorded \$11.4 million as its estimate of the pre-acquisition tax obligations and a corresponding indemnification asset, as management expects to recoverfrom the indemnity counterparties any amounts that Quanta may be required to pay in connection with any such obligations.

### 11. SEGMENT INFORMATION:

Quanta presents its operations under two reportable segments: (1) Electric Power Infrastructure Services and (2) Oil and Gas Infrastructure Services. 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 the end user markets described above. Quanta's entrepreneurial business model allows each of its 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, namely, the Electric Power Infrastructure Services Division and the Oil and Gas Infrastructure Services Division. These internal divisions are closely aligned with the reportable segments and are based on their operating units' predominant type of work.

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. These classifications of Quanta's operating unit revenues by type of work for segment reporting purposes can at times 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, such as facility costs, indirect operating expenses including 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.

#### QUANTA SERVICES, INC. AND SUBSIDIARIES

# NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

Summarized financial information for Quanta's reportable segments is presented in the following table (in thousands):

		Three Mor	nths E	nded	Six Months Ended							
		Jun	e 30,		June 30,							
	<u></u>	2018		2017		2018		2017				
Revenues:												
Electric Power Infrastructure Services	\$	1,570,173	\$	1,300,729	\$	3,138,680	\$	2,520,231				
Oil and Gas Infrastructure Services		1,086,175		899,645		1,935,244		1,858,313				
Consolidated	\$	2,656,348	\$	2,200,374	\$	5,073,924	\$	4,378,544				
Operating income (loss):												
Electric Power Infrastructure Services	\$	146,011	\$	113,043	\$	286,906	\$	212,715				
Oil and Gas Infrastructure Services		43,829		67,751		53,886		106,568				
Corporate and non-allocated costs		(66,801)		(71,003)		(142,532)		(134,418)				
Consolidated	\$	123,039	\$	109,791	\$	198,260	\$	184,865				
Depreciation:												
Electric Power Infrastructure Services	\$	23,258	\$	22,150	\$	47,528	\$	44,236				
Oil and Gas Infrastructure Services		22,480		18,134		43,175		35,498				
Corporate and non-allocated costs		4,296		4,366		8,050		7,609				
Consolidated	\$	50,034	\$	44,650	\$	98,753	\$	87,343				

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, as well as 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 the three months ended June 30, 2018 and 2017, Quanta derived \$463.0 million and \$524.5 million of its revenues from foreign operations. During thesix months ended June 30, 2018 and 2017, Quanta derived \$1.17 billion and \$1.18 billion of its revenues from foreign operations. Of Quanta's foreign revenues,68% and 80% were earned in Canada during the three months ended June 30, 2018 and 2017 and 73% and 82% were earned in Canada during the six months ended June 30, 2018 and 2017. In addition, Quanta held property and equipment of \$311.2 million and \$330.4 million in foreign countries, primarily Canada, as of June 30, 2018 and December 31, 2017.

# QUANTA SERVICES, INC. AND SUBSIDIARIES

# NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

# 12. 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):

	Three Mor	iths E	nded	Six Months Ended					
	June	e 30,			June				
	2018		2017		2018		2017		
Accounts and notes receivable	\$ (45,089)	\$	(31,605)	\$	(176,801)	\$	(126,443)		
Contract assets	(56,934)		(67,270)		(63,118)		(147,980)		
Inventories	8,277		(3,529)		(5,405)		(4,798)		
Prepaid expenses and other current assets	(39,251)		(29,355)		(57,993)		(33,637)		
Accounts payable and accrued expenses and other non-current liabilities	151,001		(55,723)		123,790		13,044		
Contract liabilities	(6,212)		48,020		71,062		36,206		
Other, net	(8,642)		12,388		(5,979)		19,434		
Net change in operating assets and liabilities, net of non-cash transactions	\$ 3,150	\$	(127,074)	\$	(114,444)	\$	(244,174)		

A reconciliation of cash, cash equivalents, and restricted cash reported within the condensed consolidated balance sheets that sum to the total of such amounts shown in the statements of cash flows are as follows (in thousands).

	Ju	ie 30,	
	2018		2017
Cash and cash equivalents	\$ 120,357	\$	99,565
Restricted cash included in "Prepaid expenses and other current assets"	2,926		2,627
Restricted cash included in "Other assets, net"	1,454		416
Total cash, cash equivalents, and restricted cash reported in the statements of cash flows	\$ 124,737	\$	102,608
	Mar	ch 31,	
	 2018		2017
Cash and cash equivalents	\$ 101,736	\$	106,514
Restricted cash included in "Prepaid expenses and other current assets"	3,160		591
Restricted cash included in "Other assets, net"	384		427
Total cash, cash equivalents, and restricted cash reported in the statements of cash flows	\$ 105,280	\$	107,532
	Decer	nber 31	,
	2017		2016
Cash and cash equivalents	138,285	\$	112,183
Restricted cash included in "Prepaid expenses and other current assets"	5,106		1,709
Restricted cash included in "Other assets, net"	384		518
Total cash, cash equivalents, and restricted cash reported in the statements of cash flows	\$ 143,775	\$	114,410
Restricted cash includes any cash that is legally restricted as to withdrawal or usage.			

### QUANTA SERVICES, INC. AND SUBSIDIARIES

# NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS - (Continued) (Unaudited)

Additional supplemental cash flow information is as follows (in thousands):

	Three Mor	ths E	nded		Six Months Ended						
	Jun	e <b>30</b> ,									
	 2018		2017		2018		2017				
Cash (paid) received during the period for —											
Interest paid	\$ (8,772)	\$	(4,044)	\$	(14,732)	\$	(7,506)				
Income taxes paid	\$ (34,598)	\$	(93,279)	\$	(52,555)	\$	(101,496)				
Income tax refunds	\$ 1,345	\$	463	\$	2,363	\$	2,669				

During the three months ended June 30, 2017, Quanta entered into a non-cash transaction whereby Quanta accepted title to a construction barge in satisfaction and discharge of a \$7.1 million note receivable.

# 13. SUBSEQUENT EVENT:

Subsequent to June 30, 2018, Quanta acquired a 30% equity interest in a water and gas pipeline infrastructure contractor located in Australia for a subscription price of \$22.2 million in cash, with an option to acquire the remaining outstanding equity of the company through 2020. A portion of the subscription price was offset by a\$3.7 million deposit previously paid by Quanta to the company. Quanta's interest in the company is represented by preference shares, which grant Quanta certain additional earnings and distribution participation rights during a designated 25-month period and preferential liquidation rights.

# Item 2. 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 condensed consolidated financial statements and related notes included elsewhere in this Quarterly Report on Form 10-Q (Quarterly Report) and with our Annual Report on Form 10-K for the year ended December 31, 2017 (2017 Annual Report), which was filed with the Securities and Exchange Commission (SEC) on February 28, 2018 and is available on the SEC's website at <a href="https://www.sec.gov">www.sec.gov</a> and on our website, which is <a href="https://www.quantaservices.com">www.quantaservices.com</a>. 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 \*Uncertainty of Forward-Looking Statements and \*Information\*\* below, Item 1A. \*Risk Factors\* of Part II of this Quarterly Report and Item 1A. \*Risk Factors\* of Part II of our 2017 Annual Report."

#### Introduction

We are a leading provider of specialty contracting services, offering infrastructure solutions primarily to the electric power, oil and gas and communications industries in the United States, Canada, Australia, Latin America and select other international markets. The services we provide include the design, installation, upgrade, repair and maintenance of infrastructure within each of the industries we serve, such as electric power transmission and distribution networks, substation facilities, renewable energy facilities, and pipeline transmission and distribution systems and facilities.

# Services Provided and Operating Segments

We report our results under two reportable segments: (1) Electric Power Infrastructure Services and (2) Oil and Gas Infrastructure Services. This structure is generally focused on broad end-user markets for our services. Our consolidated revenues for the six months ended June 30, 2018 were \$5.07 billion, of which 61.9% was attributable to the Electric Power Infrastructure Services segment and 38.1% was attributable to the Oil and Gas Infrastructure Services segment.

The Electric Power Infrastructure Services segment provides comprehensive network solutions to customers in the electric power industry. Services performed by the Electric Power Infrastructure Services segment generally include the design, installation, upgrade, repair and maintenance of electric power transmission and distribution infrastructure and substation facilities along with other engineering and technical services. This segment also provides emergency restoration services, including the repair of infrastructure damaged by inclement weather, the energized installation, maintenance and upgrade of electric power infrastructure utilizing unique bare hand and hot stick methods and our proprietary robotic arm technologies, and the installation of "smart grid" technologies on electric power networks. In addition, this segment designs, installs and maintains renewable energy generation facilities, consisting of solar, wind and certain types of natural gas generation facilities, and related switchyards and transmission infrastructure. To a lesser extent, the segment also provides comprehensive communications infrastructure services to wireline, fiber and wireless carrier customers within the communications industry; services in connection with the construction of electric power generation facilities; the design, installation, maintenance and repair of commercial and industrial wiring; and the installation of traffic networks and cable and control systems for light rail lines. This segment also includes our postsecondary educational institution that provides pre-apprenticeship training and programs for experienced linemen.

The Oil and Gas Infrastructure Services segment provides comprehensive network solutions to customers involved in the development, transportation, storage and processing of natural gas, oil and other pipeline products. Services performed by the Oil and Gas Infrastructure Services segment generally include the design, installation, repair and maintenance of pipeline transmission and distribution systems, gathering systems, production systems, storage systems and compressor and pump stations, as well as related trenching, directional boring and mechanized welding services. In addition, this segment's services include pipeline protection, integrity testing, rehabilitation and replacement, and fabrication of pipeline support systems and related structures and facilities. We also serve the offshore and inland water energy markets, primarily providing services to oil and gas exploration platforms, including mechanical installation (or "hook-ups"), electrical and instrumentation, pre-commissioning and commissioning, coatings, shallow water pipeline installation, fabrication and marine asset repair. To a lesser extent, this segment designs, installs and maintains fueling systems, as well as water and sewer infrastructure. Additionally, we provide high-pressure and critical-path turnaround services to the downstream and midstream energy markets and instrumentation and electrical services, piping, fabrication and storage tank services. To a lesser extent, this segment designs, installs and maintains fueling systems, as well as water and sewer infrastructure.

For internal management purposes, we are also organized into two internal divisions, namely, the Electric Power Infrastructure Services Division and the Oil and Gas Infrastructure Services Division. These internal divisions are closely aligned with the reportable segments and are based on the predominant type of work provided by the operating units within each division.

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 our market strategies. These classifications 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 our operating units requires that certain allocations be made to determine segment profitability, including allocations of shared and indirect costs, such as facility costs, indirect operating expenses including 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 and amortization related to intangible assets.

#### **Customer Relationships and Contracts**

Our customers include many of the leading companies in the industries we serve. 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. Our services may be provided pursuant to master service agreements, repair and maintenance contracts and fixed price and non-fixed price installation contracts. These contracts are classified into three categories based on how transaction prices are determined and revenue is recognized: unit-based contracts, cost-plus contracts and fixed price contracts. Transaction prices for unit-based 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 our revenues are recognized from contracts with customers. In addition to the considerations described below, revenue is not recognized unless collectability under the contract is considered probable, the contract 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.

A performance obligation is a promise in a contract with a customer to transfer a distinct good or service. Most of our contracts are considered to have a single performance obligation whereby we are required to integrate complex activities and equipment into a deliverable for the customer. For contracts with multiple performance obligations, we allocate the transaction price to each performance obligation using our best estimate of the standalone selling price of each distinct good or service in the contract. The standalone selling price is estimated using the expected costs plus a margin approach for each performance obligation.

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. We generally recognize revenue over time as we perform our obligations because there is a continuous transfer of control of the deliverable to the customer. We believe that the following methods provide a faithful depiction of when performance obligations under our contracts with customers are satisfied. Under unit-based contracts with an insignificant amount of partially completed units, we recognize revenue as units are completed based on contractual pricing amounts. Under unit-based contracts with more than an insignificant amount of partially completed units and fixed price contracts, we recognize 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, we recognize revenue on an input basis, as labor hours are incurred, materials are utilized and services are performed.

We also enter into strategic partnerships and investment arrangements with customers and infrastructure investors to provide fully integrated infrastructure services on certain projects, including planning and feasibility analysis, 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. As part of this strategy, we formed a partnership with select investors that provides up to \$1.0 billion of capital, including approximately \$80.0 million from us, available to invest in certain of these infrastructure projects through August 2024. 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.

#### Recent Investments, Acquisitions and Divestitures

#### Acquisitions

In January 2018, we acquired an electrical infrastructure services business specializing in substation construction and relay services and a postsecondary educational institution that provides pre-apprenticeship training and programs for experienced linemen, both of which are located in the United States. The aggregate consideration for these acquisitions was \$51.3 million paid or payable in cash, subject to certain adjustments, and379,817 shares of Quanta common stock, which had a fair value of approximately \$13.5 million as of the respective acquisition dates. Included in the cash consideration was\$12.1 million paid in the second quarter of 2018 for the purchase of certain properties and training facilities related to the postsecondary educational institution. Additionally, the acquisition of the postsecondary educational institution includes the potential payment of up to \$15.0 million of contingent consideration, payable if the acquired business achieves certain performance objectives over a five-year post-acquisition period. Based on the estimated fair value of this contingent consideration, we recorded a \$13.7 million liability as of

the acquisition date. The results of the acquired businesses have generally been included in our Electric Power Infrastructure Services segment and consolidated financial statements beginning on the acquisition dates.

On July 20, 2017, we acquired Stronghold, a specialized services business located in the United States that provides high-pressure and critical-path solutions to the downstream and midstream energy markets. The aggregate consideration included \$351.0 million in cash, subject to certain adjustments, and 2,693,680 shares of Quanta common stock, which had a fair value of \$81.3 million at the acquisition date. Additionally, the acquisition includes the potential payment of up to \$100.0 million of contingent consideration, payable if the acquired business achieves certain performance objectives over a three-year post-acquisition period. Based on the estimated fair value of this contingent consideration, we recorded a \$51.1 million liability as of the acquisition date. The results of the acquired business have generally been included in our Oil and Gas Infrastructure Services segment and consolidated financial statements since the acquisition date.

During the year ended December 31, 2017, we also acquired a communications infrastructure services business and an electrical and communications business, both of which are located in the United States. The aggregate consideration for these acquisitions consisted of \$12.0 million paid or payable in cash, subject to certain adjustments, and 288,666 shares of Quanta common stock, which had a fair value of \$8.3 million as of the acquisition dates. The results of the acquired businesses have generally been included in our Electric Power Infrastructure Services segment and consolidated financial statements since the acquisition dates.

#### Investment

Subsequent to June 30, 2018, we acquired a 30% equity interest in a water and gas pipeline infrastructure contractor located in Australia for a subscription price of \$22.2 million in cash, with an option to acquire the remaining equity of the company through 2020. A portion of the subscription price was offset by a\$3.7 million deposit previously paid by us to the company. Our interest in the company is represented by preference shares, which grant us certain additional earnings and distribution participation rights during a designated 25-month period and preferential liquidation rights.

#### Performance Obligations and Backlog

As discussed in Note 3 of the Notes to Consolidated Financial Statements in Item 1. Financial Information, effective January 1, 2018, we adopted the new revenue recognition guidance issued by the FASB. Pursuant to the new guidance, we are required to disclose, as of the end of each interim and annual period, the aggregate amount of remaining performance obligations under our contracts with customers. A performance obligation is a promise in a contract with a customer to transfer a distinct good or service. As of June 30, 2018, our remaining performance obligations were \$5.58 billion, 79.8% of which was expected to be recognized in the subsequent twelve months. 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. For purposes of calculating remaining performance obligations, we include all estimated revenues attributable to consolidated joint ventures and 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 additional contract revenues will be earned and are deemed probable of collection.

We have also historically disclosed our backlog, and while backlog is not a term recognized under US GAAP, it is a common measurement used in our industry. We also believe this non-GAAP measure enables us to more effectively forecast our future results and better identify future operating trends that may not otherwise be apparent. Our remaining performance obligations, as described above, are a component of our backlog calculation, 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.

Generally, our customers are not contractually committed to specific volumes of services under our MSAs, and most of our contracts may be terminated, typically upon 30 to 90 days notice, even if we are not in default under the contract. We determine the estimated amount of backlog for work under MSAs by using recurring historical trends for current MSAs, factoring in seasonal demand and projected customer needs based upon ongoing communications with the customer. In addition, many of our MSAs are subject to renewal, and these potential renewals are considered in determining the estimated amount of backlog. As of June 30, 2018 and December 31, 2017, MSAs accounted for 39% and 44% of our estimated 12-month backlog and 48% and 52% of total backlog. There can be no assurance as to our customers' actual requirements or that our estimates are accurate.

Revenue estimates included in our remaining performance obligations and backlog can be subject to change as a result of, among other things, project acceleration; cancellations or delays due to various factors, including but not limited to commercial issues, regulatory requirements and adverse weather; and final acceptance of change orders by our customers. These factors can also cause revenue amounts to be realized in periods and at levels different than originally projected.

The following table reconciles total remaining performance obligations to our backlog (a non-GAAP measure) by reportable segment as ofJune 30, 2018, along with estimates of amounts expected to be realized within 12 months of June 30, 2018 (in thousands):

		June 30, 2018						
	12	2 Month		Total				
Electric Power Infrastructure Services								
Remaining performance obligations	\$	2,434,216	\$	3,335,413				
Estimated orders under MSAs and short-term, non-fixed price contracts		1,823,629		3,799,060				
Backlog		4,257,845		7,134,473				
Oil and Gas Infrastructure Services								
Remaining performance obligations		2,017,559		2,240,235				
Estimated orders under MSAs and short-term, non-fixed price contracts		1,162,125		2,117,695				
Backlog		3,179,684		4,357,930				
Total								
Remaining performance obligations		4,451,775		5,575,648				
Estimated orders under MSAs and short-term, non-fixed price contracts		2,985,754		5,916,755				
Backlog	\$	7,437,529	\$	11,492,403				

The following table presents our total backlog (a non-GAAP measure) by reportable segment as ofJune 30, 2018 and December 31, 2017, along with an estimate of the backlog amounts expected to be realized within 12 months of each balance sheet date (in thousands):

	Backle	og as of	•		Backl	og as o	f
	 June 3	30, 2018	1	December 31, 2017			
	12 Month		Total		12 Month		Total
Electric Power Infrastructure Services	\$ 4,257,845	\$	7,134,473	\$	4,032,379	\$	7,359,237
Oil and Gas Infrastructure Services	3,179,684		4,357,930		2,413,817		3,818,470
Total backlog	\$ 7,437,529	\$	11,492,403	\$	6,446,196	\$	11,177,707

## Seasonality; Fluctuations of Results; Economic Conditions

Our revenues and results of operations can be subject to seasonal and other variations. These variations are influenced by 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 cause delays on projects. In addition, many of our customers develop their annual capital budgets during the first quarter, and therefore do not begin infrastructure projects in a meaningful way until their capital budgets are finalized. 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 second quarter productivity. Third quarter revenues are typically the highest of the year, as a greater number of projects are underway, and weather is normally more accommodating. Generally, revenues during the fourth quarter of the year are lower than the third quarter but higher than the second quarter. Many projects are completed in the fourth quarter, and revenues are often impacted positively by customers seeking to spend their capital budgets before the end of the year. However, the holiday season and inclement weather can sometimes cause delays during the fourth quarter, reducing revenues and increasing costs. Productivity and operating activity in any quarter may be positively or negatively affected by atypical weather patterns in the areas we serve, such as severe weather, excessive rainfall or unusual winter weather. The timing of project awards and unanticipated changes in project schedules as a result of delays or accelerations can also create variations in the level of operating activity from quarter to quarter.

These seasonal impacts are typical for our U.S. operations, but as our foreign operations grow, this pattern may have a lesser impact on our quarterly revenues. For example, revenues in Canada are often higher in the first quarter because projects are often accelerated in order to complete work prior to the break up, or seasonal thaw, as productivity is adversely affected by wet ground conditions during the warmer spring and summer months. Also, although revenues from Australia and other international operations have not been significant relative to our overall revenues to date, their seasonal patterns may differ from those in North America and may impact our seasonality more in the future.

Additionally, our industry can be highly cyclical. Our volume of business may be adversely affected by declines or delays in new projects due to cyclicality, which may vary by geographic region. Project schedules, particularly in connection with larger, longer-term projects, can also create fluctuations in the amount of work performed in a given period. For example, in connection with larger and more complicated projects, the timing of obtaining permits and other approvals may be delayed, and we may need to maintain a portion of our workforce and equipment in an underutilized capacity to ensure we are strategically positioned to deliver on such projects when they move forward. Examples of other items that may cause our results or demand for our services to fluctuate materially from quarter to quarter include: the financial condition of our customers and their access to capital; margins of projects performed during any particular period; economic, political and market conditions on a regional, national or global scale; our customers' capital spending, including on larger pipeline and electrical infrastructure projects; oil, natural gas and natural gas liquids prices; the timing of and costs associated with acquisitions; changes in the fair value of acquisition-related contingent consideration liabilities; dispositions; equity in earnings (losses) of unconsolidated affiliates; impairments of goodwill, intangible assets, long-lived assets or investments; effective tax rates; and interest rates. Accordingly, our operating results in any particular period may not be indicative of the results that can be expected for any other period. Please read *Outlook* and *Understanding Margins* for additional discussion of trends and challenges that may affect our financial condition, results of operations and cash flows.

## **Understanding Margins**

Our gross margin is gross profit expressed as a percentage of revenues, and our operating margin is operating income expressed as a percentage of revenues. Cost of services, which is subtracted from revenues to obtain gross profit, consists primarily of salaries, wages and benefits to employees; depreciation; fuel and other equipment expenses; equipment rental expense; and costs related to subcontracted services, insurance, facilities, materials, parts and supplies. Selling, general and administrative expenses, amortization of intangible assets and change in fair value of contingent consideration liabilities are then subtracted from gross profit to obtain operating income. Various factors, only some of which are within our control, can impact our margins on a quarterly or annual basis.

Seasonal and geographical. Seasonal weather patterns can have a significant impact on margins. Generally, business is slower in the winter months versus the warmer months of the year, resulting in lower productivity and consequently reducing our ability to cover fixed costs. This can be offset somewhat by increased demand for electrical service and repair work resulting from severe weather. Additionally, project schedules, including when projects begin and are completed, may impact margins. The mix of business conducted in the areas we serve will also affect margins, as some areas offer the opportunity for higher margins due to their geographic characteristics. For example, margins may be negatively impacted by unexpected difficulties that can arise in challenging operating conditions such as urban settings or mountainous and other difficult terrain. Site conditions, including unforeseen underground conditions, can also impact margins.

Weather. Adverse or favorable weather conditions can impact gross margins in a given period. For example, snowfall, rainfall or other severe weather may negatively impact our revenues and margins due to reduced productivity, as projects may be terminated, deferred or delayed until weather conditions improve or an affected area recovers from a severe weather event. Conversely, in periods when weather remains dry and temperatures are accommodating, more work can be done, sometimes at a lower cost. In some cases, severe weather, such as hurricanes and ice storms, can provide us with emergency restoration service work, which typically yields higher margins due in part to better equipment utilization rates and absorption of fixed costs.

Revenue mix. The mix of revenues derived from the industries we serve and the types of services we provide within an industry will impact margins, as certain industries and services provide higher-margin opportunities. Additionally, changes in our customers' spending patterns can cause an imbalance in supply and demand and, therefore, affect margins and the mix of revenues.

Service and maintenance versus installation. Installation work is often performed on a fixed price basis, while maintenance work is often performed under pre-established or negotiated prices or cost-plus pricing arrangements. Margins for installation work may vary from project to project, and may be higher than maintenance work, as work obtained on a fixed price basis has higher risk than other types of pricing arrangements. We typically derive approximately 30% of our annual revenues from maintenance work, but a higher portion of installation work in any given period may affect our gross margins for that period.

Subcontract work. Work that is subcontracted to other service providers generally yields lower margins. An increase in subcontract work in a given period may contribute to a decrease in margins. We typically subcontract approximately 20% to 25% of our work to other service providers.

Materials versus labor. Typically, our customers are responsible for supplying their own materials on projects; however, for some of our contracts we may 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 mark-up on materials is generally lower than our mark-up on labor costs. Furthermore, fluctuations in the price of materials we are required to procure, including as a result of national and global economic conditions, may impact our margins. In a given period, an increase in the percentage of work with higher materials procurement requirements may decrease our overall margins.

Size, scope and complexity of projects. We may experience a decrease or fluctuations in margins when larger, more complex electric transmission and pipeline projects experience significant delays. Larger projects with higher voltage capacities, larger diameter throughput capacities, increased engineering, design or construction complexities, more difficult terrain requirements or longer distance requirements typically yield opportunities for higher margins as we assume a greater degree of performance risk and there is greater utilization of our resources for longer construction timeframes. Conversely, smaller or less complex electric transmission and pipeline projects typically provide lower margin opportunities, as there are a greater number of competitors capable of performing in this market, and competitors at times may more aggressively pursue available volumes of work to absorb fixed costs. A greater percentage of smaller scale or less complex electric transmission and pipeline work also could negatively impact margins due to the inefficiency of transitioning between a greater number of smaller projects versus continuous production on fewer larger projects. Our margins may be further impacted by delays in the timing of larger projects, extended bidding procedures for more complex EPC projects or temporary decreases in capital spending by our customers. Also, during these periods we may choose to maintain a portion of our workforce and equipment in an underutilized capacity to ensure we are strategically positioned to deliver on larger, more complicated electric transmission or pipeline projects when they move forward.

Depreciation. We include depreciation in cost of services, which is common practice in our industry. However, this can make comparability of our margins to those of other companies difficult and must be taken into consideration when comparing us to other companies.

Insurance. As discussed in Contractual Obligations - Insurance, we are insured for employer's liability, workers' compensation, auto liability and general liability claims. We also have employee health care benefit plans for most employees not subject to collective bargaining agreements. Margins could be impacted by fluctuations in insurance accruals as additional claims arise and as circumstances and conditions of existing claims change.

Project Variability and Performance. Margins for a single project may fluctuate quarter to quarter due to changes in the volume or type of work performed, the pricing structure under the project contract or job productivity. Productivity can be influenced by many factors, including where the work is performed (e.g., locations with challenging operating conditions where unexpected difficulties can arise); whether the work is on an open or encumbered right of way; inclement weather; environmental restrictions or regulatory delays; protests or other political activity on a project; legal challenges to a project; and the performance of third parties. These types of factors are not practicable to quantify through accounting data but may individually or in the aggregate have a direct impact on the gross margin of a specific project.

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 the Canadian and Australian dollars, could cause material fluctuations in comparisons of our results of operations between periods.

Change in fair value of contingent consideration liabilities. We anticipate fluctuations in operating income margins as a result of changes in the fair value of contingent consideration liabilities associated with acquisitions. See Note 2 of the Notes to Condensed Consolidated Financial Statements in Item 1. Financial Statements for more information about the valuation methodologies and assumptions related to the determination of the fair value of these liabilities.

### Selling, General and Administrative Expenses

Selling, general and administrative expenses consist primarily of compensation and related benefits, marketing and communications costs, office rent and utilities, professional fees, bad debt expense, acquisition costs, gains and losses on the sale of property and equipment, letter of credit fees and maintenance, training and conversion costs related to information technology systems.

#### **Results of Operations**

As previously discussed, the results of acquired businesses have been included in the following results of operations beginning on their respective acquisition dates. The following table sets forth selected statements of operations data and such data as a percentage of revenues for the three and six month periods indicated (dollars in thousands):

#### Consolidated Results

	7	Three Moi	ths I	Ende	d June 30,				Sin	x Mon	ths Ende	d Ju	ne 30, 2018		
	 2018	1			2017				2018	;		2017			
Revenues	\$ 2,656,348	100.0	%	\$	2,200,374	10	00.0 %	\$	5,073,924	1	00.0 %	\$	4,378,544	100.0 %	
Cost of services (including depreciation)	2,322,977	87.			1,898,209	8	36.3		4,439,505		87.5		3,810,191	87.0	
Gross profit	 333,371	12			302,165	1	13.7		634,419		12.5		568,353	13.0	
Selling, general and administrative expenses	206,104	7.5			185,880		8.4		421,526		8.3		370,432	8.5	
Amortization of intangible assets	10,507	0.3			6,494		0.3		20,912		0.4		13,056	0.3	
Change in fair value of contingent consideration liabilities	(6,279)	(0	2)		_		_		(6,279)		(0.1)		_	_	
Operating income	 123,039	4.0			109,791		5.0		198,260		3.9		184,865	4.2	
Interest expense	(9,178)	(0	)		(4,271)		(0.2)		(15,956)		(0.3)		(8,236)	(0.2)	
Interest income	660	_			164		_		806		_		451	_	
Other income (expense), net	(10,426)	(0.	)		(1,079)		_		(22,401)		(0.4)		(1,443)	_	
Income before income taxes	 104,095	3.9			104,605		4.8		160,709		3.2		175,637	4.0	
Provision for income taxes	29,389	1.			40,245		1.9		47,392		1.0		62,837	1.4	
Net income	 74,706	2.8			64,360		2.9		113,317		2.2		112,800	2.6	
Less: Net income attributable to non-controlling interests	341	_			523		_		1,338		_		696	_	
Net income attributable to common stock	\$ 74,365	2.8	%	\$	63,837		2.9 %	\$	111,979		2.2 %	\$	112,104	2.6 %	

#### Three months ended June 30, 2018 compared to the three months ended June 30, 2017

Revenues. Revenues increased \$456.0 million, or 20.7%, to \$2.66 billion for the three months endedJune 30, 2018. Contributing to the increase were incremental revenues of \$269.4 million from electric power infrastructure services and \$186.5 million from oil and gas infrastructure services. The increase in revenues from electric power infrastructure services was primarily the result of increased customer spending associated with both transmission projects and distribution services. The increase in oil and gas services revenues was primarily the result of \$195 million in revenues generated by the acquired business of Stronghold, which was partially offset by decreased capital spending by our customers on large diameter pipeline transmission projects. The timing of construction for these large diameter pipeline transmission projects is highly variable due to delays associated with obtaining permits, as well as worksite access limitations related to environmental regulations and seasonal weather patterns.

Gross profit. Gross profit increased \$31.2 million, or 10.3%, to \$333.4 million for the three months endedJune 30, 2018. Gross profit as a percentage of revenues decreased to 12.5% for the three months endedJune 30, 2018 from 13.7% for the three months endedJune 30, 2017. The increase in gross profit was primarily due to the overall increase in revenues described above. The decrease in gross profit as a percentage of revenues was primarily associated with oil and gas infrastructure services and resulted from a lower level of large diameter pipeline transmission work, which typically yields higher margins. In addition, the lower proportion of large diameter pipeline transmission work negatively impacted resource utilization.

Selling, general and administrative expenses. Selling, general and administrative expenses increased \$20.2 million, or 10.9%, to \$206.1 million for the three months ended June 30, 2018. This increase was primarily attributable to \$17.0 million of incremental selling, general and administrative expenses associated with acquired businesses, including acquisition and integration costs of \$2.1 million. Also contributing to the increase were \$6.1 million in higher compensation expenses, largely associated with higher salaries due to increased personnel to support business growth and annual compensation increases, as well as increased stock-based compensation expense related to improved forecasted achievement of multi-year performance metrics; \$3.3 million of charges associated with the planned exchange of a construction barge for an industrial property; and \$1.3 million in severance and restructuring costs associated with the closure of certain operations within the Oil and Gas Infrastructure Services segment. These increases were partially offset by a decrease of \$5.6 million in legal costs and a decrease in charitable contributions primarily related to a\$2.4 million contribution made for the formation of a non-profit line training school in the quarter ended June 30, 2017. Selling, general and administrative expenses as a percentage of revenuesdecreased to 7.8% for the three months ended June 30, 2018 from 8.4% for the three months ended June 30, 2017, primarily due to the increased revenues described above.

Amortization of intangible assets. Amortization of intangible assets increased \$4.0 million to \$10.5 million for the three months ended June 30, 2018. This 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 these assets became fully amortized.

Change in fair value of contingent consideration liabilities. A \$6.3 million decrease in the fair value of contingent consideration liabilities was recognized during the three months ended June 30, 2018, which resulted in a corresponding increase in operating income, as compared to no change during the three months ended June 30, 2017. The decrease in fair value in the three months ended June 30, 2018 was primarily due to changes in forecasted performance for two acquired companies. It is anticipated that changes in fair value will be recorded periodically until the contingent consideration liabilities are settled. See Contractual Obligations - Contingent Consideration Liabilities for more information.

Interest expense. Interest expense increased \$4.9 million to \$9.2 million for the three months endedJune 30, 2018 as compared to the three months endedJune 30, 2017 due to increased borrowing activity, primarily related to the acquisition of Stronghold and common stock repurchases, as well as a higher weighted average interest rate.

Other income (expense), net. Other income (expense), net was a net expense of \$10.4 million for the three months ended June 30, 2018, as compared to a net expense of \$1.1 million for the three months ended June 30, 2017. The increase in expense was primarily due to an increase in construction activity on a large electric transmission project in Canada for an entity in which we have an equity investment. Due to such equity investment, a portion of the construction earnings are deferred by recognition of a decrease to the recorded value of the equity investment and a charge to equity in losses of unconsolidated affiliates, which is included in other income (expense), net. Additional profit deferrals are anticipated through the first half of 2019 as the project progresses from approximately 60% complete as of June 30, 2018 to completion.

Provision for income taxes. The provision for income taxes was \$29.4 million for the three months ended June 30, 2018, with an effective tax rate of 28.2%. The provision for income taxes was \$40.2 million for the three months ended June 30, 2017, with an effective tax rate of 38.5%. The effective rate for the three months ended June 30, 2018 was lower since it reflects impacts from the enactment of the Tax Act on December 22, 2017, which among other things, lowered the U.S. federal corporate tax rate from 35% to 21% effective January 1, 2018; partially offset by an increase in losses in foreign jurisdictions for which tax benefits are not expected to be realized. As a result of the Tax Act, our effective tax rate for 2018 is expected to be approximately 29%. For additional information on the status of our provisional analysis of the Tax Act, refer to Note 2 of the Notes to Condensed Consolidated Financial Statements in Item 1. Financial Information.

Other comprehensive income. Other comprehensive income (loss), net of taxes was a loss of \$20.1 million in the three months ended June 30, 2018 compared to a gain of \$26.7 million in the three months ended June 30, 2017. The loss in the three months ended June 30, 2018 was due to the strengthening of the U.S. dollar against foreign currencies associated with the positive net asset position of our international operations, primarily the Canadian and Australian dollars, as of June 30, 2018 when compared to March 31, 2018, and the gain in the three months ended June 30, 2017 was due to a strengthening of the foreign currencies associated with the positive net asset position of our international operations, primarily the Canadian and Australian dollars, against the U.S. dollar as of June 30, 2017 when compared to March 31, 2017.

#### Six months ended June 30, 2018 compared to the six months ended June 30, 2017

Revenues. Revenues increased \$695.4 million, or 15.9%, to \$5.07 billion for the six months ended June 30, 2018. Contributing to the increase were incremental revenues of \$618.4 million from electric power infrastructure services and \$76.9 million from oil and gas infrastructure services. The increase in revenues from electric power infrastructure services was primarily the result of increased customer spending associated with electric transmission projects and \$37.4 million in additional emergency restoration services revenues primarily from winter storms in the United States and Canada. Also contributing to the increase in revenues from electric power infrastructure services was approximately \$35 million in revenues from acquired businesses. The increase in oil and gas infrastructure services revenues was primarily the result of approximately \$350 million in revenues generated by the acquired business of Stronghold, which was largely offset by decreased capital spending by our customers on large diameter pipeline transmission projects. The timing of construction for these large diameter pipeline transmission projects is highly variable due to delays associated with obtaining permits, as well as worksite access limitations related to environmental regulations and seasonal weather patterns.

Gross profit. Gross profit increased \$66.1 million, or 11.6%, to \$634.4 million for the six months ended June 30, 2018. Gross profit as a percentage of revenues decreased to 12.5% for the six months ended June 30, 2018 from 13.0% for the six months ended June 30, 2017. The increase in gross profit was primarily due to the overallincrease in revenues described above. The decrease in gross profit as a percentage of revenues was primarily associated with oil and gas infrastructure services and resulted from a lower level of large diameter pipeline transmission work, which typically yields higher margins. In addition, the lower proportion of large diameter pipeline transmission work negatively impacted resource utilization.

Selling, general and administrative expenses. Selling, general and administrative expenses increased \$51.1 million, or 13.8%, to \$421.5 million for the six months ended June 30, 2018. This increase was primarily attributable to \$42.2 million of incremental selling, general and administrative expenses associated with acquired businesses, including acquisition and integration costs of \$9.3 million. Also contributing to the increase were \$12.6 million in higher compensation expenses, largely associated with higher salaries due to increased personnel to support business growth and annual compensation increases, as well as increased stock-based compensation expense related to improved forecasted achievement of multi-year performance metrics; \$1.4 million in incremental charges associated with the planned disposition of a construction barge; and\$1.3 million in severance and restructuring costs associated with the closure of certain operations within the Oil and Gas Infrastructure Services segment. These increases were partially offset by a decrease of \$8.7 million in legal costs in thesix months ended June 30, 2018, \$4.2 million of which was associated with a matter involving our prior disposition of certain communications operations, which was resolved in last year's first quarter, and a decrease in charitable contributions primarily related to a \$2.4 million contribution made for the formation of a non-profit line training school in the quarter ended June 30, 2017. Selling, general and administrative expenses as a percentage of revenues decreased to 8.3% for the six months ended June 30, 2018 from 8.5% for the six months ended June 30, 2017, primarily due to the increase in revenues described above.

Amortization of intangible assets. Amortization of intangible assets increased \$7.9 million to \$20.9 million for the six months ended June 30, 2018. This 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 these assets became fully amortized.

Change in fair value of contingent consideration liabilities. A \$6.3 million decrease in the fair value of contingent consideration liabilities was recognized during thesix months ended June 30, 2018, which resulted in a corresponding increase in operating income, as compared to no change during the six months ended June 30, 2017. The decrease in fair value in the six months ended June 30, 2018 was primarily due to changes in forecasted performance for two acquired companies. It is anticipated that changes in fair value will be recorded periodically until the contingent consideration liabilities are settled. See Contractual Obligations - Contingent Consideration Liabilities for more information

Interest expense. Interest expense increased \$7.7 million to \$16.0 million for the six months ended June 30, 2018 as compared to the six months ended June 30, 2017 due to increased borrowing activity, primarily related to the acquisition of Stronghold and common stock repurchases, as well as a higher weighted average interest rate.

Other income (expense), net. Other income (expense), net was a net expense of \$22.4 million for the six months ended June 30, 2018, as compared to a net expense of \$1.4 million for the six months ended June 30, 2017. The increase in expense was primarily due to an increase in construction activity on a large electric transmission project in Canada for an entity in which we have an equity investment. Due to such equity investment, a portion of the construction earnings are deferred by recognition of a decrease to the recorded value of the equity investment and a charge to equity in losses of unconsolidated affiliates, which is included in other income (expense), net. Additional profit deferrals are anticipated through the first half of 2019 as the construction project progresses from approximately 60% complete as of June 30, 2018 to completion.

Provision for income taxes. The provision for income taxes was \$47.4 million for the six months ended June 30, 2018, with an effective tax rate of 29.5%. The provision for income taxes was \$62.8 million for the six months ended June 30, 2017, with an effective tax rate of 35.8%. The lower effective tax rate for thesix months ended June 30, 2018 was primarily due to impacts from the enactment of the Tax Act on December 22, 2017, which among other things, lowered the U.S. federal corporate tax rate from 35% to 21% effective January 1, 2018; partially offset by an increase in losses in foreign jurisdictions for which tax benefits are not expected to be realized. In addition, the six months ended June 30, 2017 reflects higher tax benefits associated with the vesting of stock-based compensation awards primarily based on a higher weighted average vesting date stock price. As a result of the Tax Act, our effective tax rate for 2018 is expected to be approximately 29%. For additional information on the status of our provisional analysis of the Tax Act, refer to Note 2 of the Notes to Condensed Consolidated Financial Statements in Item 1. Financial Information.

Other comprehensive income. Other comprehensive income (loss), net of taxes was a loss of \$45.1 million in the six months ended June 30, 2018 compared to a gain of \$40.5 million in the six months ended June 30, 2017. The loss in the six months ended June 30, 2018 was due to the strengthening of the U.S. dollar against foreign currencies associated with the positive net asset position of our international operations, primarily the Canadian and Australian dollars, as of June 30, 2018 when compared to December 31, 2017, and the gain in the six months ended June 30, 2017 was due to a strengthening of foreign currencies associated with the positive net asset position of our international operations, primarily the Canadian and Australian dollars, against the U.S. dollar as of June 30, 2017 when compared to December 31, 2016.

#### **Segment Results**

The following table sets forth segment revenues and segment operating income (loss) for the periods indicated (dollars in thousands):

	Three Months Ended June 30,						Six Months Ended June 30, 2018						
	 2018			2017			2018			2017			
Revenues:													
Electric Power Infrastructure Services	\$ 1,570,173	59.1%	\$	1,300,729	59.1%	\$	3,138,680	61.9%	\$	2,520,231	57.6%		
Oil and Gas Infrastructure Services	1,086,175	40.9		899,645	40.9		1,935,244	38.1		1,858,313	42.4		
Consolidated revenues from external customers	\$ 2,656,348	100.0%	\$	2,200,374	100.0%	\$	5,073,924	100.0%	\$	4,378,544	100.0%		
Operating income (loss):	 												
Electric Power Infrastructure Services	\$ 146,011	9.3%	\$	113,043	8.7%	\$	286,906	9.1%	\$	212,715	8.4%		
Oil and Gas Infrastructure Services	43,829	4.0		67,751	7.5		53,886	2.8%		106,568	5.7		
Corporate and non-allocated costs	 (66,801)	N/A		(71,003)	N/A		(142,532)	N/A		(134,418)	N/A		
Consolidated operating income	\$ 123,039	4.6%	\$	109,791	5.0%	\$	198,260	3.9%	\$	184,865	4.2%		

Three months ended June 30, 2018 compared to the three months ended June 30, 2017

Electric Power Infrastructure Services Segment Results

Revenues increased \$269.4 million, or 20.7%, to \$1.57 billion for the three months ended June 30, 2018. This increase was primarily the result of increased customer spending associated with both transmission projects and distribution services, including continued favorable progress on a large transmission project in Canada. Also contributing to the increase were \$20.9 million of increased communications infrastructure services revenues; approximately \$20 million in revenues from acquired businesses; \$13.6 million of incremental emergency restoration services revenues primarily from winter storms in the United States and Canada; andfavorable foreign currency exchange rates during the three months ended June 30, 2018, which favorably impacted revenues by approximately \$10 million and were primarily attributable to the relationship between the U.S. dollar and the Canadian and Australian dollars.

Operating income increased \$33.0 million, or 29.2%, to \$146.0 million for the three months ended June 30, 2018. Operating income as a percentage of revenues increased to 9.3% for the three months ended June 30, 2018 from 8.7% for the three months ended June 30, 2017. These increases were primarily due to the increase in revenues described above, including the incremental emergency restoration services revenues, which typically yield higher margins due in part to higher equipment utilization and absorption of fixed costs. Additionally, operating results for the three months ended June 30, 2018 were favorably impacted by a large transmission project in Canada that continues to successfully execute through project schedule and productivity risks, which has resulted in a decrease of the project cost contingencies.

#### Oil and Gas Infrastructure Services Segment Results

Revenues increased \$186.5 million, or 20.7%, to \$1.09 billion for the three months ended June 30, 2018. This increase was primarily the result of approximately \$195 million in revenues generated by the acquired business of Stronghold and an increased number of smaller transmission and distribution projects. These increases were partially offset by decreased capital spending by our customers on large diameter pipeline projects. The timing of construction for these large diameter pipeline transmission projects is highly variable due to delays associated with obtaining permits, as well as worksite access limitations related to environmental regulations and seasonal weather patterns. For example, a higher percentage of our larger pipeline project work in 2017 was performed in the first half of the year, whereas we expect the majority of such work for 2018 to be performed in the second half of the year. Foreign currency exchange rates did not have a material impact on revenues between periods.

Operating income decreased \$23.9 million, or 35.3%, to \$43.8 million for the three months endedJune 30, 2018. Operating income as a percentage of revenues decreased to 4.0% for the three months endedJune 30, 2018 from 7.5% for the three months endedJune 30, 2017. These decreases were primarily due to the lower level of large diameter pipeline transmission work, which typically yields higher margins. In addition, the decrease in the level of large diameter pipeline transmission work negatively impacted resource utilization. Additionally, operating income and margin were negatively impacted by harsh weather conditions experienced on a midstream project in the northeastern United States, which has been completed. Also contributing to the decreases were \$3.3 million of charges associated with the planned exchange of a construction barge for an industrial property and \$1.3 million in severance and restructuring costs associated with the closure of certain operations within this segment. These decreases were partially offset by earnings of Stronghold, which was acquired in July 2017.

#### Corporate and Non-allocated Costs

Certain selling, general and administrative expenses and amortization of intangible assets are not allocated to segments. Corporate and non-allocated costs for the quarter ended June 30, 2018 decreased \$4.2 million to \$66.8 million compared to the quarter ended June 30, 2017. The decrease was primarily due to a\$6.3 million decrease in fair value of contingent consideration liabilities during the three months ended June 30, 2018; a \$3.8 million decrease in professional fees primarily related to lower information technology costs; a \$2.8 million decrease in acquisition and integration costs, and a decrease in charitable contributions primarily related to a\$2.4 million contribution made for the formation of a non-profit line training school in the quarter ended June 30, 2017. These decreases were partially offset by \$6.0 million in higher compensation related costs, largely associated with increased personnel to support business growth and annual compensation increases, as well as increased stock-based compensation expense related to improved forecasted achievement of multi-year performance metrics, and \$4.0 million in higher intangible amortization, primarily due to the Stronghold acquisition.

### Six months ended June 30, 2018 compared to the six months ended June 30, 2017

#### Electric Power Infrastructure Services Segment Results

Revenues for this segment increased \$618.4 million, or 24.5%, to \$3.14 billion for the six months ended June 30, 2018. This increase was primarily the result of increased customer spending associated with electric transmission projects and distribution related services, including progress on a large transmission project in Canada. Additionally, emergency restoration services revenues increased \$37.4 million primarily from winter storms in the United States and Canada. Also contributing to the increases were approximately \$35 million in revenues from acquired businesses; favorable foreign currency exchange rates during the six months ended June 30, 2018, which favorably impacted revenues by approximately \$28 million and were primarily attributable to the relationship between the U.S. dollar and the Canadian and Australian dollars; and \$21.2 million of increased communications infrastructure services revenues.

Operating income increased \$74.2 million, or 34.9%, to \$286.9 million for the six months ended June 30, 2018. Operating income as a percentage of segment revenues increased to 9.1% for the six months ended June 30, 2018 from 8.4% for the six months ended June 30, 2017. These increases were primarily due to the increase in revenues described above, including the incremental emergency restoration services revenues, which typically yield higher margins due in part to higher equipment utilization and absorption of fixed costs. Additionally, operating results for the six months ended June 30, 2018 were favorably impacted by the electric transmission project in Canada that successfully executed through project procurement, winter schedule and productivity risks resulting in a decrease of the project cost contingencies.

#### Oil and Gas Infrastructure Services Segment Results

Revenues for this segment increased \$76.9 million, or 4.1%, to \$1.94 billion for the six months ended June 30, 2018. This increase was primarily due to approximately \$350 million in revenues generated by the acquired business of Stronghold and favorable foreign currency exchange rates during the six months ended June 30, 2018, which favorably impacted our international operations by approximately \$14 million and were primarily attributable to the relationship between the U.S. dollar and the Canadian and Australian dollars. Largely offsetting these increases was reduced capital spending by our customers on large diameter pipeline projects. The timing of construction for these large diameter pipeline transmission projects is highly variable due to delays associated with obtaining permits, as well as worksite access limitations related to environmental regulations and seasonal weather patterns. For example, a higher percentage of our larger pipeline project work in 2017 was performed in the first half of the year, whereas we expect the majority of such work for 2018 to be performed in the second half of the year.

Operating income decreased \$52.7 million, or 49.4%, to \$53.9 million for the six months ended June 30, 2018. Operating income as a percentage of segment revenues decreased to 2.8% for the six months ended June 30, 2018 from 5.7% for the six months ended June 30, 2017. These decreases were primarily due to lower overall revenues from large diameter pipeline transmission work, which typically yields higher margins. In addition, the lower proportion of large diameter pipeline transmission work negatively impacted resource utilization. Also, contributing to the decreases were \$1.4 million of incremental charges associated with the planned disposition of a construction barge,\$1.3 million in severance and restructuring costs associated with the closure of certain operations within this segment and the impact of severe weather on various ongoing projects resulting in lower productivity during the six months ended June 30, 2018. These decreases were partially offset by earnings of Stronghold, which was acquired in July 2017. The six months ended June 30, 2017 were favorably impacted by a termination fee associated with a project cancellation and negatively impacted by lower margins on two distribution MSAs due to unexpected delays in the release of work after crews were mobilized.

#### Corporate and Non-allocated Costs

Certain selling, general and administrative expenses and amortization of intangible assets are not allocated to segments. Corporate and non-allocated costs for thesix months ended June 30, 2018 increased \$8.1 million to \$142.5 million compared to the six months ended June 30, 2017. This increase was primarily due to \$11.3 million of higher compensation expenses, largely associated with increased personnel to support business growth and annual compensation increases, as well as increased stock-based compensation expense related to improved forecasted achievement of multi-year performance metrics; \$7.9 million in higher intangible amortization, primarily due to the Stronghold acquisition; and \$4.4 million in higher acquisition-related costs. These increases were partially offset by a\$7.0 million decrease in professional fees primarily related to lower information technology costs, a \$6.3 million decrease in fair value of contingent consideration liabilities during thesix months ended June 30, 2018, a \$4.2 million decrease in legal costs associated with a matter involving our prior disposition of certain communications operations, which was resolved in last year's first quarter, and a decrease in charitable contributions primarily related to a \$2.4 million contribution made for the formation of a non-profit line training school in the quarter endedJune 30, 2017.

#### **Liquidity and Capital Resources**

#### Cash Requirements

Our cash and cash equivalents totaled \$120.4 million and \$138.3 million as of June 30, 2018 and December 31, 2017. As of June 30, 2018 and December 31, 2017, cash and cash equivalents held in domestic bank accounts were \$79.6 million and \$83.1 million, and cash and cash equivalents held in foreign bank accounts were \$40.8 million and \$55.2 million. As of June 30, 2018 and December 31, 2017, cash and cash equivalents held by our joint ventures, which are either consolidated or proportionately consolidated, were \$11.6 million and \$16.7 million, of which \$11.2 million and \$10.0 million related to domestic joint ventures. Cash and cash equivalents held by the joint ventures are available to support joint venture operations, but we cannot utilize those assets to support our other operations. We generally have no right to the joint ventures' cash and cash equivalents other than participating in distributions and in the event of dissolution.

At June 30, 2018, we were in compliance with the covenants under the credit agreement for our senior secured revolving credit facility and the covenants under our other bilateral credit agreements discussed below in *Debt Instruments*. We anticipate that our cash and cash equivalents on hand, existing borrowing capacity under such credit facility, and our future cash flows from operations will provide sufficient funds to enable us to meet our future operating needs and our planned capital expenditures during 2018, as well as facilitate our ability to grow through acquisitions or otherwise in the foreseeable future.

Our industry is capital intensive, and we expect the need for substantial capital expenditures to continue into the foreseeable future to meet the anticipated demand for our services. Total capital expenditures are expected to be approximately \$290 million to \$310 million for 2018, of which we have spent \$148.6 million through June 30, 2018.

We also evaluate opportunities for strategic acquisitions from time to time that may require cash, as well as opportunities to make investments in strategic partnerships with customers and infrastructure investors where we anticipate performing services such as project management, engineering, procurement or construction services. These investment opportunities exist in the markets and industries we serve and may require the use of cash to purchase debt or equity investments.

Management monitors the financial markets and general national and global economic conditions for factors that may affect our liquidity and capital resources. We consider our cash and cash equivalents investment policies 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. Accordingly, we do not anticipate that any weakness in the capital markets will have a material impact on the principal amounts of our cash and cash equivalents or our ability to rely upon our senior secured revolving credit facility for funds. To date, we have not experienced a loss of or lack of access to our cash or cash equivalents or funds under our senior secured revolving credit facility; however, our access to invested cash and cash equivalents or availability under our senior secured revolving credit facility could be impacted in the future by adverse conditions in the financial markets.

We generally do not provide for taxes related to undistributed earnings of our foreign subsidiaries because such earnings either would not be taxable when remitted or they are considered to be indefinitely reinvested. We could also be subject to additional foreign withholding taxes if we were to repatriate cash that is indefinitely reinvested outside the United States, but we do not expect such amounts to be material.

### Sources and Uses of Cash

As of June 30, 2018, we had cash and cash equivalents of \$120.4 million and working capital of \$1.38 billion. We had \$840.2 million of outstanding revolving loans under our senior secured revolving credit facility, \$770.6 million of which were denominated in U.S. dollars and \$69.6 million of which were denominated in Australian dollars. We also had \$439.9 million of outstanding letters of credit and bank guarantees under our senior secured revolving credit facility, \$240.7 million of which were denominated

in U.S. dollars and \$199.2 million of which were denominated in currencies other than the U.S. dollar, primarily in Australian or Canadian dollars. As of June 30, 2018, our \$1.81 billion senior secured revolving credit facility had \$529.9 million available for revolving loans or issuing new letters of credit or bank guarantees.

#### Operating Activities

Cash flow from operations is primarily influenced by demand for our services and operating margins but can also be influenced by working capital needs associated with the various types of services that we provide. In particular, working capital needs may increase when we commence large volumes of work under circumstances where project costs, primarily associated with labor, equipment and subcontractors, are required to be paid before the receivables resulting from the work performed 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 months 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 months. These seasonal trends can be offset by changes in the timing of projects due to delays or accelerations and other economic factors that may affect customer spending.

Operating activities provided net cash of \$156.5 million during the three months ended June 30, 2018 as compared to \$4.8 million provided during the three months ended June 30, 2017. This increase in cash flows from operating activities was primarily due to the timing of cash payments on accounts payable and accrued liabilities, in part due to lower working capital requirements related to lower levels of ongoing large diameter oil and gas pipeline projects and lower income tax payments, partially offset by higher working capital requirements related to ongoing electric power infrastructure projects in the three months ended June 30, 2018.

Operating activities provided net cash of \$182.5 million during the six months ended June 30, 2018 as compared to \$1.1 million provided during the six months ended June 30, 2017. This increase in cash flows from operating activities was primarily due to the timing of cash payments on accounts payable and accrued liabilities, in part due to lower working capital requirements related to lower levels of ongoing large diameter oil and gas pipeline projects and lower income tax payments, partially offset by higher working capital requirements related to ongoing electric power infrastructure projects in the six months ended June 30, 2018.

Days sales outstanding (DSO) as of June 30, 2018 was 74 days, as compared to 80 days at June 30, 2017. This decrease was primarily attributable to the timing of cash collections associated with a larger electric transmission project that experienced billing delays in prior periods and a larger electric transmission project that currently has favorable advance billing terms. 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.

#### Investing Activities

During the three months ended June 30, 2018, we used net cash for investing activities of \$93.4 million as compared to \$65.4 million used during the three months ended June 30, 2017. Investing activities in the second quarter of 2018 included \$81.8 million of capital expenditures and \$15.5 million primarily related to the acquisition of certain properties and training facilities associated with a business acquired in the first quarter of 2018. These items were partially offset by \$7.2 million of proceeds from the sale of property and equipment. Investing activities in the second quarter of 2017 included \$58.3 million of capital expenditures; \$9.2 million used for investments in unconsolidated affiliates, net of certain returns to these investments; and \$6.1 million used for acquisitions. These items were partially offset by \$7.5 million of proceeds from the sale of property and equipment. During the six months ended June 30, 2018, investing activities used net cash of \$185.3 million as compared to \$114.0 million used in the six months ended June 30, 2017. Investing activities in the six months ended June 30, 2018 included \$148.6 million of capital expenditures and \$46.2 million used for acquisitions. These items were partially offset by \$13.0 million used for investments in unconsolidated affiliates, net of certain returns related to these investments; and \$7.6 million used for acquisitions. These items were partially offset by \$12.3 million of proceeds from the sale of property and equipment.

Our industry is capital intensive, and we expect the need for substantial capital expenditures to continue into the foreseeable future to meet the anticipated demand for our services. We also have various contractual obligations related to investments in unconsolidated affiliates and other capital commitments which 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 magnitude of the potential cash outlays for these initiatives.

Additionally, certain of our acquisitions included the potential payment of contingent consideration, payable in the event certain performance objectives are achieved by the acquired businesses. The majority of these contingent consideration liabilities are subject to a maximum payment amount, and the aggregate maximum amount of these liabilities was \$154.4 million as of June 30, 2018. Included within this amount was contingent consideration of up to\$15.0 million related to a January 2018 acquisition, payable at the end of two-year and five-year post-acquisition periods if the acquired business achieves certain performance objectives, and approximately \$100.0 million related to the 2017 acquisition of Stronghold, payable at the end of a three-year post-acquisition period if the acquired business achieves certain performance objectives. Each of these liabilities would be paid at least 70% in cash. The aggregate fair value of all of our contingent consideration liabilities, including those that are not subject to a maximum payment amount, was \$73.0 million as of June 30, 2018.

Subsequent to June 30, 2018, we acquired a 30% equity interest in a water and gas pipeline infrastructure contractor located in Australia for a subscription price of \$22.2 million in cash, with an option to acquire the remaining outstanding equity of the company through 2020.

#### Financing Activities

During the three months ended June 30, 2018, net cash used in financing activities was \$44.8 million as compared to net cash provided of \$55.6 million during the three months ended June 30, 2017. Financing activities in the three months endedJune 30, 2018 included \$39.1 million of net repayments under our senior secured revolving credit facility and \$16.0 million of cash payments for common stock repurchases, partially offset by\$12.9 million of short-term borrowings. Financing activities in the three months ended June 30, 2017 included \$58.9 million of net borrowings under our senior secured revolving credit facility.

During the six months ended June 30, 2018, net cash used in financing activities was \$18.1 million as compared to net cash provided of \$99.9 million in the six months ended June 30, 2017. Financing activities in the six months ended June 30, 2018 included \$189.9 million of cash payments for common stock repurchases and \$14.2 million of payments to satisfy tax withholding obligations associated with share-based compensation, largely offset by \$175.5 million of net borrowings under our credit facility. Financing activities in the six months ended June 30, 2017 included \$124.7 million of net borrowings under our credit facility, partially offset \$17.8 million of payments to satisfy tax withholding obligations associated with share-based compensation.

#### Stock Repurchases

During the second quarter of 2017, our board of directors approved a stock repurchase program that authorizes us to purchase, from time to time through June 30, 2020, up to \$300.0 million of our outstanding common stock. Repurchases under this program can be made in open market and privately negotiated transactions. During the three and six months ended June 30, 2018, we repurchased 0.6 million and 5.6 million shares of our common stock in the open market at a cost of \$20.0 million and \$193.9 million, of which \$16.0 million and \$189.9 million was paid in cash as of June 30, 2018. During 2017, we repurchased 1.4 million shares of our common stock in the open market at a cost of \$50.0 million. Accordingly, \$56.1 million remained authorized for repurchase under the program as of June 30, 2018. Additionally, we repurchased additional shares of our common stock in the open market at a cost of \$10.0 million in July of 2018, which resulted in \$46.1 million remaining authorized for repurchase under the program.

#### Debt Instruments

Senior Secured Revolving Credit Facility

On December 18, 2015, we entered into an amended and restated credit agreement with various lenders that provides for \$1.81 billion senior secured revolving credit facility. On October 31, 2017, we and the lenders entered into an amendment to the credit facility which, among other things, extended the maturity date from December 18, 2020 to October 31, 2022 and adjusted the interest rates applicable to certain borrowings. The entire amount available under the credit facility may be used by us for revolving loans and letters of credit in U.S. dollars and certain alternative currencies. Up to \$600.0 million of the credit facility may be used by certain of our subsidiaries for revolving loans and letters of credit in certain alternative currencies. Up to \$100.0 million of the credit facility may be used for swing line loans in U.S. dollars, up to\$50.0 million of the credit facility may be used for swing line loans in Australian dollars. In addition, subject to the conditions specified in the credit agreement, we have the option to increase the revolving commitments by up to \$400.0 million from time to time upon receipt of additional commitments from new or existing lenders. Borrowings under the credit agreement are to be used to refinance existing indebtedness and for working capital, capital expenditures and other general corporate purposes.

As of June 30, 2018, we had \$840.2 million of outstanding revolving loans under the credit facility, \$770.6 million of which were denominated in U.S. dollars and \$69.6 million of which were denominated in Australian dollars. We also had \$439.9 million of outstanding letters of credit and bank guarantees under our credit facility, \$240.7 million of which were denominated in U.S.

dollars and \$199.2 million of which were denominated in currencies other than the U.S. dollar, primarily in Australian or Canadian dollars. The remaining\$529.9 million was available for revolving loans or new letters of credit or bank guarantees.

Beginning on November 20, 2017, amounts borrowed in U.S. dollars bear interest, at our 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 our Consolidated Leverage Ratio (as described below), or (ii) the Base Rate (as described below) plus 0.125% to 1.000%, as determined based on our Consolidated Leverage Ratio. Amounts borrowed as revolving loans under the credit agreement in any currency other than U.S. dollars bear interest at a rate equal to the Eurocurrency Rate plus 1.125% to 2.000%, as determined based on our 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 our 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 our Consolidated Leverage Ratio.

From December 18, 2015 through November 19, 2017, amounts borrowed in U.S. dollars bore interest, at our option, at a rate equal to either (i) the Eurocurrency Rate plus 1.125% to 2.125%, as determined based on our Consolidated Leverage Ratio), or (ii) the Base Rate plus 0.125% to 1.125%, as determined based on our Consolidated Leverage Ratio. Amounts borrowed as revolving loans under the credit agreement in any currency other than U.S. dollars bore interest at a rate equal to the Eurocurrency Rate plus 1.125% to 2.125%, as determined based on our Consolidated Leverage Ratio. Standby or commercial letters of credit issued under the credit agreement were subject to a letter of credit fee of 1.125% to 2.125%, based on our Consolidated Leverage Ratio, and Performance Letters of Credit issued under the credit agreement in support of certain contractual obligations were subject to a letter of credit fee of 0.675% to 1.275%, based on our Consolidated Leverage Ratio.

We are also subject to a commitment fee of 0.20% to 0.40%, based on our Consolidated Leverage Ratio, on any unused availability under the credit agreement.

Consolidated Leverage Ratio is the ratio of our Consolidated Funded Indebtedness to Consolidated EBITDA (as those terms are defined in the credit agreement). For purposes of calculating our 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. Base Rate equals the highest of (i) the Federal Funds Rate (as defined in the credit agreement) plus0.5%, (ii) the prime rate publicly announced by Bank of America, N.A. and (iii) the Eurocurrency Rate plus 1.00%. 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).

Subject to certain exceptions, the credit agreement is secured by substantially all of our assets and the assets of our wholly owned U.S. subsidiaries and by a pledge of all of the capital stock of our wholly owned U.S. subsidiaries and 65% of the capital stock of direct foreign subsidiaries of our wholly owned U.S. subsidiaries. Our wholly owned U.S. subsidiaries also guarantee the repayment of all amounts due under the credit agreement. Subject to certain conditions, all collateral will automatically be released from the liens at any time we maintain an Investment Grade Rating (defined in the credit agreement as two of the following three conditions being met: (i) a corporate credit rating that is BBB- or higher by Standard & Poor's Rating Services, (ii) a corporate family rating that is BBB- or higher by Fitch Ratings, Inc.).

The credit agreement contains certain covenants, including (i) a maximum Consolidated Leverage Ratio of 3.0 to 1.0 (provided that in connection with certain permitted acquisitions in excess of \$200.0 million, such ratio is 3.5 to 1.0 for the fiscal quarter in which the acquisition is completed and the two subsequent fiscal quarters) and (ii) a minimum Consolidated Interest Coverage Ratio of 3.0 to 1.0. As of June 30, 2018, we were in compliance with all of the 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 our assets. The credit agreement allows cash payments for dividends and stock repurchases subject to compliance with the following requirements (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 credit agreement and/or cash and cash equivalents on hand.

The credit agreement provides for customary events of default and contains cross-default provisions with our underwriting, continuing indemnity and security agreement with our sureties and all of our other debt instruments exceeding \$100.0 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 we provide cash collateral for all outstanding letter of credit obligations, terminate the commitments under the credit agreement, and foreclose on the collateral.

#### Other Facilities

We have also entered into bilateral credit agreements with various lenders that provide for up to \$48.0 million in aggregate availability in both U.S. dollars and certain alternative currencies, primarily Australian dollars. We may utilize these facilities for, among other things, the issuance of letters of credit or bank guarantees and overdraft protection and had \$2.7 million of letters of credit and bank guarantees outstanding under these facilities at June 30, 2018.

#### **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, liabilities associated with non-cancelable operating leases, letters of credit obligations, surety guarantees related to performance bonds, commitments to purchase equipment and certain multiemployer pension plan liabilities.

# Investments in Affiliates and Other Entities

Certain joint venture structures involve risks not directly reflected in our balance sheets. For example, in our joint venture structures that provide infrastructure 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 our participation in a joint venture qualifies as a general partnership, the joint venture partners are jointly and severally liable for all of the obligations of the joint venture, including obligations owed to the customer or any other person or entity. We are not aware of circumstances that would lead to future claims against us for material amounts in connection with these joint and severall liabilities.

Additionally, in the joint venture structures entered into by us, typically each party indemnifies the other party for any liabilities incurred in excess of the liabilities such other party is obligated to bear under the respective joint venture agreement or in accordance with the scope of work subcontracted to each party. It is possible, however, that we could be required to pay or perform obligations in excess of our share if the other party is unable or refuses to pay or perform its share of the obligations. We are not aware of circumstances that would lead to future claims against us for material amounts that would not be indemnified.

#### Leases

We enter into non-cancelable operating leases for many of our facility, vehicle and equipment needs. These leases allow us to conserve cash by paying a monthly lease rental fee for use of the facilities, vehicles and equipment rather than purchasing them. We may decide to cancel or terminate a lease before the end of its term, in which case we are typically liable to the lessor for the remaining lease payments under the term of the lease.

We have guaranteed the residual value on certain of our 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 termination of such leases. At June 30, 2018, the maximum guaranteed residual value was \$651.5 million. We believe that no significant payments will be made as a result of the difference between the fair market value of the leased equipment and the guaranteed residual value; however, there can be no assurance that significant payments will not be required in the future.

#### Letters of Credit

Certain of our vendors require letters of credit to ensure reimbursement for amounts they disburse on our behalf, such as to beneficiaries under our insurance programs. In addition, from time to time, certain customers require us to post letters of credit to ensure payment of subcontractors and vendors and guarantee performance under our contracts. Such letters of credit are generally issued by a bank or similar financial institution, typically pursuant to our credit agreement. Each letter of credit commits the issuer to pay specified amounts to the holder of the letter of credit if the holder claims that we have failed to perform specified actions. If this were to occur, we would be required to reimburse the issuer of the letter of credit. Depending on the circumstances of such a reimbursement, we may also be required to record a charge to earnings for the reimbursement. We do not believe that it is likely that any material claims will be made under a letter of credit in the foreseeable future.

As of June 30, 2018, we had \$439.9 million in outstanding letters of credit and bank guarantees under our senior secured revolving credit facility securing our casualty insurance program and various contractual commitments. These are irrevocable stand-by letters of credit with maturities generally expiring at various times throughout 2018 and 2019. We expect to renew the majority of the letters of credit related to the casualty insurance program for subsequent one-year periods upon maturity.

We have also entered into bilateral credit agreements with various lenders that provide for up to \$48.0 million in aggregate availability in both U.S. dollars and certain alternative currencies, primarily Australian dollars. We may utilize these facilities for, among other things, the issuance of letters of credit or bank guarantees and overdraft protection and had \$2.7 million of letters of credit and bank guarantees outstanding under these facilities at June 30, 2018.

#### Performance Bonds and Parent Guarantees

Many customers, particularly in connection with new construction, require us to post performance and payment bonds issued by a financial institution known as a surety. These bonds provide a guarantee to the customer that we will perform under the terms of a contract and that we will pay subcontractors and vendors. If we fail to perform, the customer may demand that the surety make payments or provide services under the bond. We must reimburse the surety for any expenses or outlays it incurs. Under our underwriting, continuing indemnity and security agreement with our sureties and with the consent of the lenders that are party to our credit agreement, we have granted security interests in certain of our assets to collateralize our obligations to the sureties. Subject to certain conditions and consistent with terms of our credit agreement, these security interests will be automatically released if we maintain a credit rating that meets two of the following three conditions: (i) a corporate credit rating that is BBB- or higher by Standard & Poor's Rating Services, (ii) a corporate family rating that is BBB- or higher by Fitch Ratings, Inc. We may be required to post letters of credit or other collateral in favor of the sureties or our customers in the future, which would reduce the borrowing availability under our senior secured revolving credit facility. To date, we have not been required to make any reimbursements to our sureties for bond-related costs. While we believe that it is unlikely that we will have to fund significant claims under our surety arrangements in the foreseeable future, to the extent a reimbursement is required, the amount could be material.

As of June 30, 2018, the total amount of outstanding performance bonds was estimated to be approximately \$3.2 billion. Our estimated maximum exposure as it relates to the value of performance bonds outstanding is lowered on each bonded project as the cost to complete is reduced, and each of our commitments under the performance bonds generally extinguishes concurrently with the expiration of our related contractual obligation. The estimated cost to complete these bonded projects was approximately \$864 million as of June 30, 2018.

Additionally, from time to time, we guarantee the obligations of our wholly owned subsidiaries, including obligations in connection with certain contracts with customers, lease obligations, joint venture arrangements and, in some states, contractors' licenses. We are not aware of any material obligations for performance or payment asserted against us under any of these guarantees.

#### **Equipment Purchase Commitments**

See Contractual Obligations - Equipment Purchase Obligations below for a description of these obligations.

### Multiemployer Pension Plans

See Contractual Obligations - Multiemployer Pension Plans below for a description of these obligations.

#### **Contractual Obligations**

The following table summarizes our future contractual obligations as of June 30, 2018, excluding amounts related to certain capital commitments related to investments in unconsolidated affiliates, unrecognized tax benefits, multiemployer pension plan obligations, interest associated with letters of credit and bank guarantees, commitment fees under our senior secured revolving credit facility, commitments associated with our insurance liabilities and acquisition-related contingent consideration liabilities (in thousands):

	Total	Re	emainder of 2018	2019	2020	2021	2022	Т	hereafter
Long-term debt - principal (1)	\$ 841,855	\$	76	\$ 1,581	\$ _	\$ _	\$ 840,198	\$	_
Long-term debt - cash interest(2)	26		20	6	_	_	_		_
Short-term debt (3)	12,922		12,922	_	_	_	_		_
Operating lease obligations	337,346		66,869	94,590	64,320	40,995	24,548		46,024
Capital lease obligations (4)	1,464		500	740	116	108	_		_
Equipment purchase commitments	49,327		48,249	1,078	_	_	_		_
Capital commitment related to investments in unconsolidated affiliates	38,955		14,837	24,118	_	_	_		_
Total	\$ 1,281,895	\$	143,473	\$ 122,113	\$ 64,436	\$ 41,103	\$ 864,746	\$	46,024

- (1) Amounts were recorded in our June 30, 2018 condensed consolidated balance sheet and included \$840.2 million of outstanding revolving loans under our senior secured revolving credit facility, which bear interest at variable market rates. Assuming the principal amount outstanding at June 30, 2018 remained outstanding and the interest rate in effect at June 30, 2018 remained the same, the annual cash interest expense with respect to our senior secured revolving credit facility would be approximately\$33.2 million, payable for the remainder of the term of such credit facility, which matures in October 2022.
- (2) Amounts relate to cash interest expense on our fixed-rate long-term debt, which excludes our senior secured revolving credit facility.
- Amounts were recorded in our June 30, 2018 condensed consolidated balance sheet.
- (4) Principal amounts of capital lease obligations were recorded in our June 30, 2018 condensed consolidated balance sheet

# **Equipment Purchase Commitments**

We have committed capital for the expansion of our vehicle fleet in order to accommodate manufacturer lead times on certain types of vehicles. As ofJune 30, 2018, \$48.2 million of production orders were issued with expected delivery dates in 2018, and \$1.1 million of production orders were issued with expected delivery dates in 2019. Although we have committed to the purchase of these vehicles at the time of their delivery, we intend that these orders will be assigned to third party leasing companies and made available to us under certain of our master equipment lease agreements, which will release us from our capital commitment.

### Capital Commitments Related to Investments in Unconsolidated Affiliates

During the year ended December 31, 2017, we formed a partnership with select investors that provides up to \$1.0 billion of capital, including approximately \$80.0 million from us, available to invest in certain specified types of infrastructure projects through August 2024. Because we are not obligated to invest this amount and are unable to determine the timing of any such investments, we have excluded this capital commitment from the Contractual Obligations table.

Additionally, as of June 30, 2018, we had outstanding capital commitments associated with investments in unconsolidated affiliates related to planned oil and gas infrastructure projects of \$15.7 million, \$14.8 million of which is expected to be paid in 2018. The remaining \$0.9 million of these capital commitments is anticipated to be paid by May 31, 2022. Because we are unable to determine the timing of this remaining capital commitment, we have excluded this capital commitment from the Contractual Obligations table.

#### Unrecognized Tax Benefits

Although the IRS completed its examination related to tax years2010, 2011 and 2012 during the year ended December 31, 2016, Quanta and certain subsidiaries remain under examination by various U.S. state, Canadian and other foreign tax authorities for multiple periods. We believe it is reasonably possible that within the next 12 months unrecognized tax benefits may decrease by up to \$13.7 million as a result of settlement of these examinations or the expiration of certain statute of limitations periods.

Because we are unable to accurately predict the timing and amounts of any obligations related to unrecognized tax benefits, we have excluded unrecognized tax benefits from the Contractual Obligations table.

#### Multiemployer Pension Plans

The previously presented table of estimated contractual obligations does not reflect the obligations under the multiemployer pension plans in which our union employees participate. Some of our operating units are parties to various collective bargaining agreements with unions that represent certain of their employees. The agreements require the operating units to pay specified wages, provide certain benefits to their union employees and contribute certain amounts to multiemployer pension plans and employee benefit trusts. Our 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 our union employee payrolls. 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 the projects we have ongoing at any time and the need for union resources in connection with those projects. Therefore, we are unable to accurately predict our union employee payroll and the amount of the resulting multiemployer pension plan contribution obligations for future periods.

We may also be required to make additional contributions to our multiemployer pension plans if they become underfunded, and these additional contributions will be determined based on our union employee payrolls. The Pension Protection Act of 2006 added special funding and operational rules 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, cash flow position and whether it 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 (which may take the form of a surcharge on benefit contributions) and/or modifications to retiree benefits. Certain multiemployer plans to which our operating units contribute or may contribute in the future are in "endangered," "seriously endangered" or "critical" status. The amount of additional funds, if any, that we may be obligated to contribute to these plans in the future cannot be reasonably estimated and are not included in the above table due to uncertainty of the future levels of work that require the specific use of the union employees covered by these plans, as well as the future contribution levels and possible surcharges on contributions applicable to these plans.

We may be subject to additional liabilities imposed by law as a result of our 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 plan if the employer withdraws 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. We are not aware of any material amounts of withdrawal liability that have been incurred or asserted and that remain outstanding as a result of our withdrawal from a multiemployer defined benefit pension plan.

#### Letters of Credit and Bank Guarantee Fees and Commitment Fees

We have excluded from the Contractual Obligations table interest associated with letters of credit and bank guarantees and commitment fees under our senior secured revolving credit facility and other bilateral credit agreements because the outstanding letters of credit and bank guarantees, availability and applicable interest rates and fees are variable. For additional information regarding our letters of credit and bank guarantees and the interest rates and fees associated with these items and our borrowings under our senior secured revolving credit facility, see *Liquidity and Capital Resources - Debt Instruments* above.

#### Insurance

We are insured for employer's liability, workers' compensation, auto liability and general liability claims. Under these programs, the deductible for employer's liability is \$1.0 million per occurrence, the deductible for workers' compensation is \$5.0 million per occurrence, and the deductibles for auto liability and general liability are\$10.0 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 \$0.5 million per claimant per year.

Losses under all of these 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. As of June 30, 2018 and December 31, 2017, the gross amount accrued for insurance claims totaled\$243.2 million and \$254.7 million, with \$185.0 million and \$200.0 million considered to be long-term and included in "Insurance and other non-current liabilities." Related insurance recoveries/receivables as ofJune 30, 2018 and December 31, 2017 were \$36.9 million and \$50.4 million, of which \$0.4 million and \$0.4 million were included in "Prepaid expenses and other current assets" and \$36.5 million and \$50.0 million were included in "Other assets, net."

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 if we believe that the cost to obtain such coverage exceeds any additional benefits. In any such event, our overall risk exposure would increase, which could negatively affect our results of operations, financial condition and cash flows. The Contractual Obligations table excludes commitments associated with our insurance liabilities, as we are unable to determine the timing of payments related to these obligations.

#### Contingent Consideration Liabilities

We have excluded from the Contractual Obligations table acquisition-related contingent consideration liabilities, which represent the estimated fair value of future amounts payable to the former owners of certain acquired businesses, because the amounts have not been earned and we are unable to determine the portion of the liabilities that will be settled in cash and the exact timing of any such payments as of June 30, 2018. Payment of such consideration is contingent on the future performance objectives of such acquired businesses, and the fair value of such consideration is estimated by management based on entity-specific assumptions that are evaluated on an ongoing basis. As of June 30, 2018 and December 31, 2017, the fair value of these contingent consideration liabilities totaled\$73.0 million and \$65.7 million, all of which was included in "Insurance and other non-current liabilities" on our condensed consolidated balance sheets. Because acquisition-related contingent consideration liabilities are contingent upon future events, we include these liabilities in the Contractual Obligations table when the contingencies are resolved. We expect a significant portion of these liabilities to be settled by late 2020 or early 2021.

The fair values of the contingent consideration liabilities as ofJune 30, 2018 were 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. The expected volatility factors ranged from 23.0% to 30.0% based on historical asset volatility of selected guideline public companies. Depending on contingent consideration payment terms, the present value of the estimated payments are discounted based on a risk-free rate and/or Quanta's cost of debt, ranging from 2.1% to 3.4%. The fair value determinations incorporate significant inputs not observable in the market. Accordingly, the level of inputs used for these fair value measurements is the lowest level (Level 3), as further described in Note 2 of the Notes to Condensed Consolidated Financial Statements in Item 1. Financial Statements. Significant changes in any of these assumptions could result in a significantly higher or lower potential liability.

The majority of our contingent consideration liabilities are subject to a maximum payment amount, and the aggregate maximum amount of these liabilities was\$154.4 million as of June 30, 2018. One contingent consideration liability is not subject to a maximum payout amount, and the fair value of that liability was\$1.0 million as of June 30, 2018.

Our aggregate contingent consideration liabilities can change due to additional business acquisitions, payments to settle outstanding liabilities, changes in the fair value of amounts owed, and foreign currency translation gains or losses. During the three months ended June 30, 2018, there were no acquisitions, and during thesix months ended June 30, 2018, one acquisition increased our contingent consideration liabilities by\$13.7 million. There was no increase to our contingent consideration liabilities due to acquisitions during the three and six months ended June 30, 2017. During each of the three and six months ended June 30, 2018 and 2017, we made no payments related to contingent consideration liabilities. During the three and six months ended June 30, 2018, there was a \$6.3 million decrease in the fair value of contingent consideration liabilities primarily due to changes in forecasted performance for two acquired companies. The change in fair value of contingent consideration liabilities has been reflected in operating income on our consolidated statements of operations.

### **Concentrations of Credit Risk**

We are subject to concentrations of credit risk related primarily to our cash and cash equivalents and our 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 cash and cash equivalent investments, which consist primarily of interest-bearing demand deposits, money market investments, money market mutual funds and investment grade commercial paper with original maturities of three months or less. Although we do 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 we receive from these investments. In addition, we grant credit under normal payment terms, generally

without collateral, to our customers, which include electric power and oil and gas companies, governmental entities, general contractors, and builders, owners and managers of commercial and industrial properties located primarily in the United States, Canada, Australia and Latin America. Consequently, we are subject to potential credit risk related to changes in business and economic factors throughout these locations, which may be heightened as a result of uncertain economic and financial market conditions that have existed in recent years. However, we generally have certain statutory lien rights with respect to services provided. Some of our customers have experienced significant financial difficulties in the past, 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.

At June 30, 2018 and December 31, 2017, no customers represented 10% or more of our consolidated net receivable position. No customers represented 10% or more of our consolidated revenues for the three and six months ended June 30, 2018, and one customer within our Oil and Gas Infrastructure Services segment accounted for approximately 10% of our consolidated revenues for the three and six months ended June 30, 2017.

#### 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 and/or property damages, employment-related damages, punitive 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 *Legal Proceedings, Collective Bargaining Agreements* and *Indemnities* in Note 10 of the Notes to Condensed Consolidated Financial Statements in Item 1. *Financial Statements* of Part I of the Quarterly Report for additional information regarding litigation, claims and other legal proceedings.

#### **Related Party Transactions**

In the normal course of business, we enter into transactions from time to time with related parties. Our significant related party transactions typically take the form of facility leases with prior owners of certain acquired businesses.

### **Critical Accounting Policies Update**

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 US 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. Our critical accounting estimates are detailed in Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations in Part II of our Annual Report on Form 10-K for the year ended December 31, 2017. Significant changes to our critical accounting policies as a result of adopting new revenue recognition guidance effective January 1, 2018 are referenced below:

#### Revenue Recognition

See Revenue Recognition in Note 2 of the Notes to Condensed Consolidated Financial Statements in Item 1. Financial Statements of Part I of this Quarterly Report for information on the new revenue recognition guidance and related disclosures.

## Outlook

We believe there are growth opportunities across the industries we serve and continue to have a positive long-term outlook. Overall, favorable end-market drivers have spurred demand for infrastructure services in both our Electric Power Infrastructure Services and Oil and Gas Infrastructure Services segments, and we believe both segments are generally in a renewed multi-year up-cycle. We are focused on long-term profitable growth and continuing to distinguish ourselves through safe execution and best-in-class field leadership. Though not without risks and challenges, including those discussed below and referenced in Item 1A. Risk Factors of Part II of this Quarterly Report and Uncertainty of Forward-Looking Statements and Information below, we believe we are well-positioned to capitalize on opportunities and trends in the industries we serve with our full-service operations, broad geographic reach, financial position and technical expertise.

#### Electric Power Infrastructure Services Segment

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. These factors have affected and will continue to affect reliability, requiring utilities to upgrade, modernize and expand their existing transmission and distribution systems. Furthermore, current federal legislation also requires the power industry to meet federal reliability standards for its transmission and distribution systems. In response to these dynamics, over the past several years, many utilities across North America have begun to implement plans to upgrade their transmission and distribution systems in order to improve reliability and reduce congestion.

As demand for power increases, we expect the need for new power generation facilities to also increase. The development of such facilities, expected to be powered by certain types of traditional energy sources and renewable energy sources such as solar and wind, would necessitate new or expanded transmission infrastructure to transport power to demand centers. Furthermore, we anticipate that the access to low cost natural gas resources from unconventional shale formations in the United States and Canada will continue to increase the amount of electricity generated by natural gas powered plants. To the extent this dynamic continues, transmission and substation infrastructure will be needed to interconnect new natural gas-fired generation facilities. We also anticipate that modification and reengineering of existing transmission and substation infrastructure will be required as existing coal and nuclear generation facilities are retired or shut down.

With respect to distribution systems, a number of utilities are implementing system upgrades or hardening programs in response to severe weather events that have occurred over the past several years, which is increasing distribution investment in some regions of the United States. We also anticipate that utilities will continue to integrate smart grid technologies into their distribution systems over time to improve grid management and create efficiencies. Further, to the extent adoption of electrical vehicle technology increases, we believe upgrades to distribution and other electrical infrastructure will be required to accommodate increased load demand.

We believe that several existing, pending or proposed legislative or regulatory actions may also positively impact long-term demand for the services we provide, particularly in connection with electric power infrastructure and renewable energy spending. For example, legislative or regulatory action that alleviates some of the siting and right-of-way challenges that impact transmission projects would potentially accelerate future construction, and federal reliability standards for transmission and distribution systems could create 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 these projects may depend on the availability of tax incentive programs and there is no assurance that existing incentive programs will be extended or that new incentive programs will be implemented.

Despite these positive trends, the regulatory and environmental permitting processes remain a hurdle for some proposed transmission and renewable energy projects, and these factors continue to create uncertainty as to timing of projects and customer spending. In the near term, margins for our electric power infrastructure services operations have been impacted by regulatory and permitting delays and unfavorable economic and market conditions, particularly for larger transmission projects. We anticipate many of these issues to be resolved over the long term, as a number of these projects are currently underway, and we expect this segment's backlog to remain strong during 2018.

Our customers are also seeking additional specialized labor resources to address an aging utility workforce and labor availability issues, increasing pressure to reduce costs and improve reliability, and increasing duration and complexity of customer capital programs. We believe these trends will continue, possibly to the point where customer demand for labor resources will outpace the supply of industry resources. Our ability to take advantage of this opportunity is limited by our ability to employ, train and retain the necessary skilled personnel. We are taking proactive steps to develop our workforce, including through the establishment and expansion of our training facility, our acquisition of a postsecondary educational institution that provides pre-apprenticeship training and programs for experienced linemen, and other strategic relationships.

With respect to our communications service offerings, consumer and commercial demand in North America and Latin America 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, we believe there is increasing demand to upgrade or build fiber optic networks that are closer or connected to the end user, and in North America there are plans for new wireless networks and improvements to existing wireless networks. As a result of these near- and longer-term industry trends, we believe there will be meaningful demand for our services

### Oil and Gas Infrastructure Services Segment

We continue to see growth opportunities in our Oil and Gas Infrastructure Services segment, primarily with respect to installation and maintenance of larger pipeline systems and related facilities and services related to pipeline integrity, natural gas distribution, horizontal directional drilling and downstream industrial services. A number of larger pipeline projects from the North American shale formations and Canadian oil sands to power plants, refineries and other demand centers are in various stages of development. While there is risk the projects will not move forward or could be delayed, we believe many of our customers remain committed to them given the cost and time required to move from conception to construction. We expect to continue to execute on a significant number of larger pipeline projects during 2018.

Due to its abundant supply and current low price, we believe the demand for North American natural gas will continue to increase in the future and that natural gas will be the fuel of choice for both primary power generation and backup power generation for renewable-driven power plants. In certain areas of North America, the existing pipeline system infrastructure is insufficient to support this expected future development. Furthermore, the abundance of low price natural gas in the United States, Canada and Australia has also resulted in efforts to develop liquefied natural gas (LNG) export facilities to serve higher-price international markets, which could provide pipeline and related facilities development opportunities for us. Although fluctuating commodity prices, regulatory issues and changing economic conditions may impact the number of projects that ultimately move forward, we believe our comprehensive service offerings and broad geographic presence enable us to competitively pursue opportunities that become available.

We also believe there are growth opportunities for some of our other pipeline services over the long term, including pipeline integrity, rehabilitation and replacement services. Regulatory measures have increased, and could continue to increase, the frequency or stringency of pipeline integrity testing requirements, which we expect to result in increased capital expenditures by our customers. We have also experienced an increase in demand for our natural gas distribution services as a result of improved economic conditions, lower natural gas prices and a significant need to upgrade and replace aging infrastructure.

Despite these positive trends, a challenging regulatory and permitting environment has caused the delay of some larger pipeline projects during the past several years. These dynamics negatively impacted our segment margins, in part as a result of our inability to adequately cover certain fixed costs. Margins for larger pipeline projects are also subject to significant performance risk, which can arise from adverse weather conditions, challenging geography, customer decisions and crew productivity. Specific opportunities for larger pipeline projects are also sometimes difficult to predict because of the seasonality of bidding and construction cycles.

Additionally, the oil and gas industry is highly cyclical and subject to volatility as a result of fluctuations in natural gas, natural gas liquids and oil prices. Certain of our end markets remain challenged as the broader energy market has not fully recovered from the significant decline in prices that began in mid-2014. Exploration and production companies and midstream companies significantly reduced capital spending in response to the decline, and demand in areas where the price of oil is influential, such as Australia, the Canadian Oil Sands, certain oil-driven U.S. shale formations and the Gulf of Mexico, has been adversely impacted by low oil prices. If oil and natural gas prices decline further or remain at lower levels over the long term, our outlook may change and demand for our services could be materially impacted.

We have also expanded our industrial services offerings, including high-pressure and critical-path turnaround services to the downstream and midstream energy markets, and enhanced our capabilities with respect to instrumentation and electrical services, piping, fabrication and storage tank services. While these services were negatively impacted in 2017 by historic adverse weather events in the U.S. Gulf Coast region, we believe, looking at trends and estimates for process facility utilization rates and overall refining capacity, North America will be the largest downstream maintenance market in the world over the next several years. Furthermore, we believe processing facilities located along the U.S. Gulf Coast region should have certain strategic advantages due to their access and proximity to affordable hydrocarbon resources.

Overall, we remain optimistic about this segment's operations. From a near- and medium-term perspective, we continue to believe that larger pipeline opportunities can provide significant profitability, although these projects are often subject to more cyclicality and execution risk than our other service offerings. We have also taken steps to diversify and expand our operations in this segment through other services, such as pipeline integrity, natural gas distribution, and downstream industrial services.

#### Strategic Acquisitions and Investments

We continue to evaluate potential strategic acquisitions and investments to broaden our customer base, expand our geographic area of operations, grow our portfolio of services and increase opportunities across our operations. We believe that attractive growth opportunities exist primarily due to the highly fragmented and evolving nature of the industries in which we operate and adjacent industries, along with the inability of many companies to expand and modernize due to capital or liquidity constraints. We will pursue opportunities designed to enhance our core business and leadership position in the industries we serve and provide

innovative solutions to our customers. We also believe our unique operating model and entrepreneurial mindset will continue to be attractive to acquisition candidates.

### **Uncertainty of Forward-Looking Statements and Information**

This Quarterly Report on Form 10-Q 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, weighted average shares outstanding, capital expenditures, tax rates and other projections of operating or financial results;
- Expectations regarding our business or financial outlook, growth, trends or opportunities in particular markets:
- The expected value of contracts or intended contracts with customers:
- Future capital allocation initiatives;
- The scope, services, term and results of any projects awarded or expected to be awarded for services to be provided by us:
- The development of larger electric transmission and oil and natural gas pipeline projects and the level of oil, natural gas and natural gas liquids prices and their impact on our business or demand for our services;
- The impact of existing or potential legislation or regulation, including the Tax Act;
- 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 potential benefits from investments or acquisitions, including Stronghold;
- The expected outcome of pending or threatened litigation:
- Beliefs and assumptions about the collectability of receivables:
- The business plans or financial condition of our customers;
- Our plans and strategies;
- Possible recovery on pending or contemplated change orders or other claims against customers or third parties;
   and
- The current economic and regulatory conditions and trends in the industries we serve.

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 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 the following:

- Market conditions:
- The effects of industry, economic, financial or political conditions outside our control, including weakness in the capital markets:

- Quarterly variations in our operating results;
- Trends and growth opportunities in relevant markets:
- Delays, reductions in scope or cancellations of anticipated, pending or existing projects, including as a result of weather, regulatory or permitting issues, environmental processes, project performance issues, claimed force majeure events, protests or other political activity, legal challenges or our customers' capital constraints:
- The successful negotiation, execution, performance and completion of anticipated, pending and existing contracts, including the ability to obtain future project awards:
- Our dependence on suppliers, subcontractors, equipment manufacturers and other third-party contractors:
- Our ability to attract and the potential shortage of skilled employees and our ability to retain key personnel and qualified employees;
- Our dependence on fixed price contracts and the potential to incur losses with respect to these contracts;
- Estimates relating to our use of percentage-of-completion accounting;
- Adverse weather conditions or events:
- Our ability to generate internal growth:
- Competition in our business, including our ability to effectively compete for new projects and market chare:
- The effect of natural gas, natural gas liquids and oil prices on our operations and growth opportunities and on our customers' capital programs and demand for our services:
- The future development of natural resources;
- The failure of existing or potential legislative actions and initiatives to result in demand for our services;
- Fluctuations of prices of certain materials used in our business, including any increase in prices as a result of the imposition of tariffs on such materials;
- Unexpected costs or liabilities that may arise from pending or threatened litigation, indemnity obligations or other claims asserted against us, including liabilities and costs for which we are not covered by third-party insurance and liabilities associated with multiemployer pension plans;
- The outcome of pending or threatened litigation;
- Risks relating to the potential unavailability or cancellation of third-party insurance, the exclusion of coverage for certain losses, and potential increases in premiums
  for coverage deemed beneficial to us;
- Cancellation provisions within our contracts and the risk that contracts expire and are not renewed or are replaced on less favorable terms;
- Loss of customers with whom we have long-standing or significant relationships;
- The potential that participation in joint ventures or similar structures exposes us to liability and/or harm to our reputation for acts or omissions by our partners;
- Our inability or failure to comply with the terms of our contracts, which may result in additional costs, unexcused delays, warranty claims, failure to meet performance guarantees, damages or contract terminations;
- The inability or refusal of our customers to pay for services, including failure to collect our outstanding receivables:

- The failure to recover on payment claims against project owners or third-party contractors or to obtain adequate compensation for customer-requested change orders;
- The failure of our customers to comply with regulatory requirements applicable to their projects, which may result in project delays and cancellations:
- Budgetary or other constraints that may reduce or eliminate tax incentives or government funding for projects, which may result in project delays or cancellations;
- Estimates and assumptions in determining our financial results, remaining performance obligations and backlog;
- Our ability to successfully complete our performance obligations or realize our backlog;
- Risks associated with operating in international markets, including instability of foreign governments, currency fluctuations, tax and investment strategies, as well as
  compliance with foreign legal systems and cultural practices, the U.S. Foreign Corrupt Practices Act and other applicable anti-bribery and anti-corruption laws;
- Our ability to successfully identify, complete, integrate and realize synergies from acquisitions, including Stronghold;
- The potential adverse impact resulting from uncertainty surrounding acquisitions and investments, including the ability to retain key personnel from acquired businesses, the potential increase in risks already existing in our operations and poor performance or decline in value of our investments in infrastructure assets;
- The adverse impact of impairments of goodwill, other intangible assets, receivables, long-lived assets or investments:
- Our growth outpacing our decentralized management and infrastructure:
- Requirements relating to governmental regulation and changes thereto:
- Inability to enforce our intellectual property rights or the obsolescence of such rights;
- Risks related to the implementation of new information technology solutions;
- The impact of our unionized workforce on our operations, including labor stoppages or interruptions due to strikes or lockouts;
- Potential liabilities and other adverse effects arising from occupational health and safety matters;
- The cost of borrowing, availability of cash and credit, fluctuations in the price and volume of our common stock, debt covenant compliance, interest rate fluctuations and other factors affecting our financing and investing activities;
- The ability to access sufficient funding to finance desired growth and operations;
- Our ability to obtain performance bonds:
- Potential exposure to environmental liabilities;
- Our ability to meet the regulatory requirements applicable to us and our subsidiaries, including the Sarbanes-Oxley Act of 2002.
- Rapid technological and other structural changes that could reduce the demand for our services:
- New or changed tax laws, treaties or regulations:
- Increased healthcare costs arising from healthcare reform legislation or other legislative action:
- Regulatory changes that result in increased labor costs:

- Significant fluctuations in foreign currency exchange rates;
   and
- The other risks and uncertainties described elsewhere herein and in Item 1A. Risk Factors of Part I of our 2017 Annual Report and as may be detailed from time to time in our other public filings with the 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. In addition, we do not undertake and expressly disclaim any obligation to update or revise any forward-looking statements to reflect events or circumstances after the date of this report or otherwise.

# Item 3. Quantitative and Qualitative Disclosures about Market Risk.

The information in this section should be read in connection with the information on financial market risk related to changes in interest rates and currency exchange rates in Item 7A. *Quantitative and Qualitative Disclosures About Market Risk* of Part II of our 2017 Annual Report. 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 with original maturities of three months or less. 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, as we grant credit under normal payment terms, generally without collateral, we are subject to potential credit risk related to our customers' ability to pay for services provided. This risk may be heightened as a result of depressed economic and financial market conditions. However, 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. We perform ongoing credit risk assessments of our customers and financial institutions, and in some cases, we obtain collateral or other security from our customers.

Interest Rate Risk. As of June 30, 2018, 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 long-term obligations. As of June 30, 2018, the fair value of our variable rate debt of\$840.2 million approximated book value. Our weighted average interest rate on our variable rate debt for the three months ended June 30, 2018 was 3.62%. The annual effect on our pretax earnings of a hypothetical 50 basis point increase or decrease in variable interest rates would be approximately \$4.2 million based on our June 30, 2018 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, Australia and Latin America, 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 the three and six months ended June 30, 2018, revenues from our foreign operations accounted for 17.4% and 23.0% of our consolidated revenues. Fluctuations in foreign exchange rates during the three months ended June 30, 2018 caused an increase of approximately \$13 million in foreign revenues compared to the three months endedJune 30, 2017. Fluctuations in foreign exchange rates during the six months ended June 30, 2017.

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 June 30, 2018.

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 \$40.8 million as of June 30, 2018, an assumed 5% adverse change to foreign exchange rates would result in a fair value decline of \$1.9 million. Fluctuations in fair value are recorded in "Accumulated other comprehensive income (loss)", a separate component of stockholders' equity.

# Item 4. Controls and Procedures.

Attached as exhibits to this Quarterly Report 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 4. 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 Quarterly Report, 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 Quarterly 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 June 30, 2018, our disclosure controls and procedures were effective to provide reasonable assurance of achieving their objectives.

# **Evaluation of Internal Control over Financial Reporting**

During the three months ended June 30, 2018, we implemented a major upgrade to our financial consolidation and reporting system and made changes to related internal controls. Certain control activities previously performed manually or through reliance on independent systems were replaced by system controls within the new integrated financial consolidation and reporting system or have been modified as a result of enhanced functionality of the new system. There have been no other changes in our internal control over financial reporting during the quarter ended June 30, 2018 that have materially affected, or are 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.

#### PART II — OTHER INFORMATION

#### Item 1. 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 and/or property damages, employment-related damages, punitive 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 *Legal Proceedings, Collective Bargaining Agreements* and *Indemnities* in Note 10 of the Notes to Condensed Consolidated Financial Statements in Item 1. *Financial Statements* of Part I of this Quarterly Report, which are incorporated by reference into this Item 1. *Legal Proceedings* of Part II of this Quarterly Report, for additional information regarding litigation, claims and other legal proceedings.

### Item 1A. Risk Factors.

As of the date of this filing, there have been no material changes from the risk factors previously disclosed in Item 1A *Risk Factors* of Part I of our 2017 Annual Report. An investment in our common stock or other equity securities involves various risks. When considering an investment in our company, you should carefully consider all of the risk factors described herein and in our 2017 Annual Report. The matters specifically identified are not the only risks and uncertainties we face, and there may be additional matters that are not known to us or that we currently consider immaterial. All of these risks and uncertainties could adversely affect our business, financial condition or future results, and thus the value of an investment in our company.

Item 2. Unregistered Sales of Equity Securities and Use of Proceeds.

**Unregistered Sales of Equity Securities** 

None.

## Issuer Purchases of Equity Securities During the Second Quarter of 2018

The following table contains information about our purchases of equity securities during the three months ended une 30, 2018.

Period	Total Number of Shares Purchased <sup>(1)</sup>	Av	verage Price Paid per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Maximum Number (or Approximate Dollar Value) of Shares that may yet be Purchased Under the Plans or Programs <sup>(2)</sup>
April 1-30, 2018					
Open Market Stock Repurchases	_	\$	_	_	\$ 76,086,713
Tax Withholdings (1)	3,053	\$	30.88	_	
May 1-31, 2018					
Open Market Stock Repurchases(2)	_	\$	_	_	\$ 76,086,713
Tax Withholdings (1)	19,798	\$	36.63	_	
June 1-30, 2018					
Open Market Stock Repurchases <sup>(2)</sup>	594,671	\$	33.62	594,671	\$ 56,093,238
Total	617,522			594,671	\$ 56,093,238

<sup>(1)</sup> Includes shares purchased from employees to satisfy tax withholding obligations in connection with the vesting of restricted stock unit and performance unit awards or the settlement of previously vested but deferred restricted stock unit awards.

# Item 3. Defaults Upon Senior Securities.

None.

## Item 4. Mine Safety Disclosures.

None.

## Item 5. Other Information.

None.

<sup>(2)</sup> Includes shares repurchased as of the trade date of the repurchases. On May 25, 2017, 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, 2020, up to \$300.0 million of our outstanding common stock. Repurchases under this program 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. This program does 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. As of June 30, 2018, we had repurchased 6.9 million shares of our common stock under this program at a cost of \$243.9 million. Accordingly, \$56.1 million remained authorized for repurchase under the program as of June 30, 2018.

# Item 6. Exhibits.

Exhibit No.		Description
3.1		Restated Certificate of Incorporation of Quanta Services, Inc. (previously filed as Exhibit 3.3 to the Company's Form 8-K filed May 25, 2011 and incorporated herein by reference)
3.2		Certificate of Designation of Series G Preferred Stock (previously filed as Exhibit 3.1 to the Company's Form 8-K filed January 17, 2014 and incorporated herein by reference)
3.3		Bylaws of Quanta Services, Inc., as amended and restated March 27, 2014 (previously filed as Exhibit 3.1 to the Company's Form 8-K filed March 31, 2014 and incorporated herein by reference)
10.1	*	Second Amendment to Intercreditor Agreement dated August 4, 2015 by and between 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, and Bank of America, N.A., as Lender Agent on behalf of the other Lender Parties (under the Company's Credit Agreement, as amended), and agreed to by Quanta Services, Inc. and the subsidiaries and affiliates of Quanta Services, Inc. identified therein
10.2	*	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; Ouanta Services, Inc., the other Indemnitors identified therein; and the Stallone Companies
10.3		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 (No. 001-13831) filed May 30, 2018 and incorporated herein by reference)
31.1	*	Certification by Chief Executive Officer pursuant to Rule 13a-14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)
31.2	*	Certification by Chief Financial Officer pursuant to Rule 13a -14(a), as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002 (filed herewith)
32.1	*	Certification by Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002 (furnished herewith)
101.INS	*	XBRL Instance Document
101.SCH	*	XBRL Taxonomy Extension Schema Document
101.CAL	*	XBRL Taxonomy Extension Calculation Linkbase Document
101.LAB	*	XBRL Taxonomy Extension Label Linkbase Document
101.PRE	*	XBRL Taxonomy Extension Presentation Linkbase Document
101.DEF	*	XBRL Taxonomy Extension Definition Linkbase Document

<sup>\*</sup> Filed or furnished herewith

# SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the Registrant, Quanta Services, Inc., has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

QUANTA SERVICES, INC.

By:	/s/ JERRY K. LEMON
	Jerry K. Lemon Chief Accounting Officer
	(Principal Accounting Officer)

Dated: August 7, 2018

### SECOND AMENDMENT TO INTERCREDITOR AGREEMENT

This SECOND AMENDMENT TO INTERCREDITOR AGREEMENT (this "Amendment") dated as of August 4, 2015, is made by and among Federal Insurance Company, an Indiana corporation ("Federal"); American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., and The Insurance Company of the State of Pennsylvania (collectively "AIG"); Liberty Mutual Insurance Company, a Massachusetts company, Liberty Mutual Fire Insurance Company, and Safeco Insurance Company of America (collectively, "Liberty Mutual"); and Bank of America, N.A., a national banking association, as Lender Agent on behalf of the other Lender Parties.

WHEREAS, Federal, AIG, Liberty Mutual and Lender Agent are party to that certain Intercreditor Agreement, dated as of March 14, 2005, as modified by that certain Joinder Certificate, dated as of November 28, 2006, wherein AIG was added as a Surety, as further modified by that certain Joinder Certificate, dated March 31, 2009, wherein Liberty Mutual was added as a Surety, and as further amended by that certain First Amendment to Intercreditor Agreement, dated as of December 3, 2012 (collectively, the "Intercreditor Agreement");

WHEREAS, the Stallone Companies (as defined in Section 2(d) below) are contemporaneously herewith being sold to a third party;

WHEREAS, in connection with such sale of the Stallone Companies, Indemnitors have requested, and Surety has agreed, subject to certain conditions, to remove and release the Stallone Companies as Principals and Indemnitors under the Surety Credit Documents; and

WHEREAS, the sale of the Stallone Companies requires the amendment and modification of the Intercreditor Agreement as hereinafter set forth;

NOW, THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

1 . <u>Definitions</u>. Capitalized terms used in this Amendment and not otherwise defined herein are used herein as defined in the Intercreditor Agreement.

### 2. Amendments.

(a) The definition of "Bonds" in Section 1 of the Intercreditor Agreement is amended to add the following at the end of such definition:

"Bonds" will also mean any surety agreements, undertakings, or instruments of guaranty signed by Surety on behalf of any of the Stallone Companies prior to the Seventh Amendment Effective Date, exclusive of the Stallone Open Bonds.

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(b) The definitions of "Indemnitors" and "Principal" in Section 1 of the Intercreditor Agreement are each amended to add the following to each such definition, at the end of each such definition:

Notwithstanding the foregoing or anything in this Agreement or any other Surety Credit Document to the contrary, in no event will any of the Stallone Companies be an Indemnitor or Principal for purposes of this Agreement or any other Surety Credit Document. The exclusion of the Stallone Companies as Indemnitors and Principals for the purposes of this Agreement and each other Surety Credit Document will not limit the indemnity obligations of any of the Stallone Companies as may be agreed to by any of such Stallone Companies in any other agreement entered into by any of such Stallone Companies (other than any Surety Credit Document).

(c) The definition of "Surety Loss" in Section 1 of the Intercreditor Agreement is amended to restate subparagraph (a) of said definition (exclusive of items (1) – (5) thereunder) to read as follows:

all damages, costs, reasonable attorney fees, and liabilities (including all reasonable expenses incurred in connection therewith) which Surety actually incurs by reason of (i) executing or procuring the execution of any surety agreements, undertakings, or instrument of guarantee, or renewal or continuation thereof, signed by Surety on behalf of (y) any Principal or Island Mechanical, Hawaii, and (z) if requested by any Indemnitor, any Affiliates and Subsidiaries of Quanta Services, Inc., (ii) Bonds which may be already or hereafter be executed on behalf of any Principal and/or any Foreign Subsidiary, or renewal or continuation thereof, (iii) Bonds that were already executed by Surety prior to the Sixth Amendment Effective Date on behalf of any of the Trench Companies, or renewal or continuation thereof, exclusive of the Trench Open Bonds, and/or (iv) Bonds that were already executed by Surety prior to the Seventh Amendment Effective Date on behalf of any of the Stallone Companies, or renewal or continuation thereof, exclusive of the Stallone Open Bonds; or which Surety actually incurs by reason of making any investigation on account thereof, prosecuting or defending any action in connection therewith, obtaining a release, recovering, or attempting to recover any salvage in connection therewith or enforcing by litigation or otherwise any of the provisions of this Agreement, including, but not limited to:

(d) Section 1 of the Intercreditor Agreement is amended to add the following defined terms in alphabetical order:

"Seventh Amendment Effective Date" means August 4, 2015.

"Stallone Companies" means and includes the following: Quanta Fiber Networks, Inc., a Delaware corporation; InfraSource FI, LLC, a Delaware limited liability company; Sunesys, LLC, a Delaware limited liability company; and Sunesys of Virginia, Inc., a Virginia corporation.

"Stallone Open Bonds" means and includes all of the surety agreements, undertakings, or instruments of guaranty listed on the attached Exhibit D, which were signed by Surety on behalf of any or all or any combination of the Stallone Companies.

- (e) Exhibit A to the Intercreditor Agreement is hereby deleted in its entirety and replaced with Exhibit A to this Amendment.
- (f) A new Exhibit D to the Intercreditor Agreement is hereby added in the form attached as Exhibit D to this Amendment.
- 3. <u>Amendment</u>. This Amendment may not be amended or modified except by a writing signed by or on behalf of each of the parties hereto.
- 4. <u>Headings</u>. The section headings in this Amendment are included for convenience of reference only and will not constitute a part of this Amendment for any other purpose.
- 5. <u>Governing Law.</u> This Amendment will be governed by and construed and enforced in accordance with the laws of the State of New York (without giving effect to its conflict of laws principles).
- 6. <u>Entire Agreement</u>. This Amendment together with the Intercreditor Agreement represent the entire agreement among the parties hereto concerning the subject matter hereof, and all oral discussions and prior agreements are merged herein.
- 7. <u>Severability</u>. Should any provision of this Amendment be invalid or unenforceable for any reason, the remaining provisions hereof will remain in full effect.
- 8. <u>Binding Agreement</u>. This Amendment, and the terms, covenants, and conditions hereof, will be binding upon the parties hereto and their respective successors and assigns, and will inure to the benefit of the parties, and their respective successors and permitted assigns.
- 9. <u>Counterparts</u>. This Amendment may be executed in multiple counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. A facsimile copy or digital/electronic transmission (*e.g.*, PDF format) of an executed original counterpart of this Amendment shall have the same force and effect as an executed original counterpart.
- 1 0 . Effect. Upon the effectiveness of this Amendment, each reference in the Intercreditor Agreement to "this Agreement," "hereunder," or words of like import will mean and be a reference to the Intercreditor Agreement, as affected and amended by this Amendment.

[Signature Pages Follow]

IN WITNESS WHEREOF, the parties hereto have executed this Amendment as of the date first above written.

SURETY:	
FEDERAL INSURANCE COMPANY	
By:/s/ David B. Norris, Jr Name: David B. Norris, Jr Title: Vice President	
LIBERTY MUTUAL INSURANCE COMPANY	
By:/s/ Kris L. Hill Name: Kris L. Hill Title: Assistant Secretary	
LIBERTY MUTUAL FIRE INSURANCE	COMPANY
By: /s/ Kris L. Hill  Name: Kris L. Hill  Title: Assistant Secretary	
SAFECO INSURANCE COMPANY OF	AMERICA
By: /s/ Kris L. Hill Name: Kris L. Hill Title: Assistant Secretary	

## AMERICAN HOME ASSURANCE COMPANY NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA. THE INSURANCE COMPANY OF THE STATE

#### OF PENNSYLVANIA

By: /s/ John L. Ames
Name: John L. Ames
Title: Vice President

### **LENDER AGENT:**

BANK OF AMERICA, N.A., as Lender Agent on behalf of Lender Parties

By: /s/ Anthony W. Kell
Name: Anthony W. Kell
Title: Vice President

# EXHIBIT A

## LIST OF PRINCIPAL/INDEMNITORS

Principal	Jurisdiction of Formation
Quanta Services, Inc.	Delaware
Brent Woodward, Inc.	Oregon
CAN-FER Utility Services, LLC	Delaware
Conam Construction Co.	Texas
Crux Subsurface, Inc.	Delaware
Dacon Corporation	Delaware
Dashiell Corporation	Delaware
Digco Utility Construction, L.P.	Delaware
Energy Construction Services, Inc.	Delaware
Five Points Construction Co.	Texas
Hargrave Power, Inc.	Delaware
H. L. Chapman Pipeline Construction, Inc.	Delaware
InfraSource Construction, LLC	Delaware
InfraSource Field Services, LLC	Delaware
InfraSource Installation, LLC	Delaware
InfraSource, LLC	Delaware
InfraSource Services, LLC	Delaware
Intermountain Electric, Inc.	Colorado
Irby Construction Company	Mississippi
Island Mechanical Corporation	Hawaii
J.C.R. Construction Co., Inc.	New Hampshire
J.W. Didado Electric, LLC	Delaware
Lindsey Electric, L.P.	Texas
Manuel Bros., Inc.	Delaware
Mears Construction, LLC	Georgia
Mears Group, Inc.	Delaware
Mejia Personnel Services, Inc.	Texas
Mercer Software Solutions, LLC	Texas
M.J. Electric, LLC	Delaware
North Houston Pole Line, L.P.	Texas
NorthStar Energy Services, Inc.	North Carolina
Nova Group, Inc.	California
Nova NextGen Solutions, LLC	Delaware
PAR Electrical Contractors, Inc.	Missouri
Performance Energy Services, L.L.C.	Louisiana
Phoenix Power Group, Inc.	Delaware
Potelco, Inc.	Washington
Price Gregory International, Inc.	Delaware
Probst Electric, Inc.	Utah
QPS Engineering, LLC	Delaware
Quanta Electric Power Services, LLC	Delaware

Quanta Energy Services, LLC	Delaware
Quanta Field Services, LLC	Delaware
Quanta-Potelco Electrical Utilities, LLC	Delaware
Quanta Power Generation, Inc.	Delaware
Quanta Technology, LLC	Delaware
Quanta Utility Installation Company, Inc.	Delaware
Road Bore Corporation	Hawaii
Service Electric Company	Delaware
Southwest Trenching Company, Inc.	Texas
Summit Line Construction, Inc.	Utah
Sumter Utilities, Inc.	Delaware
T. G. Mercer Consulting Services, Inc.	Texas
The Ryan Company, Inc.	Massachusetts
Tom Allen Construction Company	Delaware
Underground Construction Co., Inc.	Delaware
Utilimap Corporation	Missouri
Utility Line Management Services, Inc.	Delaware
Winco, Inc.	Oregon

# EXHIBIT D

## STALLONE OPEN BONDS

(Attached)

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# SEVENTH AMENDMENT TO UNDERWRITING, CONTINUING INDEMNITY AND SECURITY AGREEMENT

This SEVENTH AMENDMENT TO UNDERWRITING, CONTINUING INDEMNITY AND SECURITY AGREEMENT (this "Amendment"), dated as of August 4, 2015, is made by and among Federal Insurance Company, an Indiana corporation ("Federal"); American Home Assurance Company, National Union Fire Insurance Company of Pittsburgh, Pa., and The Insurance Company of the State of Pennsylvania (collectively "AIG"); Liberty Mutual Insurance Company, a Massachusetts company, Liberty Mutual Fire Insurance Company, and Safeco Insurance Company of America (collectively, "Liberty Mutual"); Quanta Services, Inc., a Delaware corporation ("Quanta") and an Indemnitor; the other undersigned Indemnitors; and the Stallone Companies (as hereinafter defined).

WHEREAS, Federal, AIG, Liberty Mutual, the Indemnitors and certain of the Stallone Companies are party to that certain Underwriting, Continuing Indemnity and Security Agreement, dated as of March 14, 2005, as amended by that certain Joinder Agreement and Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of November 28, 2006, wherein AIG was added as a Surety, as further amended by that certain Second Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of January 9, 2008, as further amended by that certain Joinder and Third Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of December 19, 2008, as further amended by that certain Joinder Agreement and Fourth Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of March 31, 2009, wherein Liberty Mutual was added as a Surety, as further amended by that certain Joinder and Fifth Amendment to Underwriting, Continuing Indemnity and Security Agreement dated as of May 17, 2012, and as further amended by that certain Sixth Amendment to Underwriting, Continuing Indemnity, and Security Agreement dated as of December 3, 2012 (collectively, the "Underwriting Agreement");

WHEREAS, the Stallone Companies (as defined in Section 2(d) below) are contemporaneously herewith being sold to a third party;

WHEREAS, in connection with such sale of the Stallone Companies, the Indemnitors have requested, and Surety has agreed, subject to certain conditions set forth herein, to remove and release the Stallone Companies as Principals and Indemnitors under the Underwriting Agreement, as amended by this Amendment, and the other Surety Credit Documents; and

WHEREAS, the parties to the Underwriting Agreement desire to further amend the Underwriting Agreement as hereinafter set forth, and this Amendment, the terms hereof and consummation of the transactions contemplated hereby will be beneficial to the Indemnitors and the Stallone Companies;

NOW, THEREFORE, in consideration of the mutual promises and covenants set forth herein, the parties hereto hereby agree as follows:

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1 . <u>Definitions</u>. Capitalized terms used in this Amendment and not otherwise defined herein are used herein as defined in the Underwriting Agreement.

#### 2. Amendments.

(a) The definition of "Bonds" in Section 1 of the Underwriting Agreement is amended to add the following at the end of such definition:

"Bonds" will also mean any surety agreements, undertakings, or instruments of guaranty signed by Surety on behalf of any of the Stallone Companies prior to the Seventh Amendment Effective Date, exclusive of the Stallone Open Bonds.

(b) The definitions of "Indemnitors" and "Principal" in Section 1 of the Underwriting Agreement are each amended to add the following to each such definition, at the end of each such definition:

Notwithstanding the foregoing or anything in this Agreement or any other Surety Credit Document to the contrary, in no event will any of the Stallone Companies be an Indemnitor or Principal for purposes of this Agreement or any other Surety Credit Document. The exclusion of the Stallone Companies as Indemnitors and Principals for the purposes of this Agreement and each other Surety Credit Document will not limit the indemnity obligations of any of the Stallone Companies as may be agreed to by any of such Stallone Companies in any other agreement entered into by any of such Stallone Companies (other than any Surety Credit Document).

(c) The definition of "Surety Loss" in Section 1 of the Underwriting Agreement is amended to restate subparagraph (a) of said definition (exclusive of items (1) – (5) thereunder) to read as follows:

all damages, costs, reasonable attorney fees, and liabilities (including all reasonable expenses incurred in connection therewith) which Surety actually incurs by reason of (i) executing or procuring the execution of any surety agreements, undertakings, or instrument of guarantee, or renewal or continuation thereof, signed by Surety on behalf of (y) any Principal or Island Mechanical, Hawaii, and (z) if requested by any Indemnitor, any Affiliates and Subsidiaries of Quanta Services, Inc., (ii) Bonds which may be already or hereafter be executed on behalf of any Principal and/or any Foreign Subsidiary, or renewal or continuation thereof, (iii) Bonds that were already executed by Surety prior to the Sixth Amendment Effective Date on behalf of any of the Trench Companies, or renewal or continuation thereof, exclusive of the Stallone Companies, or renewal or continuation thereof, exclusive of the Stallone Open Bonds; or which Surety actually incurs by reason of making any investigation on account thereof, prosecuting or defending any action in connection therewith, obtaining a release, recovering, or attempting to recover any salvage in connection therewith or enforcing by litigation or otherwise any of the provisions of this Agreement, including, but not limited to:

(d) Section 1 of the Underwriting Agreement is amended to add the following defined terms in alphabetical order:

"Seventh Amendment Effective Date" means August 4, 2015.

"Stallone Companies" means and includes the following: Quanta Fiber Networks, Inc., a Delaware corporation; InfraSource FI, LLC, a Delaware limited liability company; Sunesys, LLC, a Delaware limited liability company; Sunesys of Massachusetts, LLC, a Delaware limited liability company; and Sunesys of Virginia, Inc., a Virginia corporation.

"Stallone Open Bonds" means and includes all of the surety agreements, undertakings, or instruments of guaranty listed on the attached Exhibit E, which were signed by Surety on behalf of any or all or any combination of the Stallone Companies.

(e) Section 38 of the Underwriting Agreement is hereby amended to replace the addresses for notices to the Indemnitors with the following:

Indemnitors: Quanta Services, Inc.

2800 Post Oak Blvd., Suite 2600 Houston, Texas 77056-6175 Attn: General Counsel

With a copy to: Duane Morris LLP

1330 Post Oak Blvd., Suite 800 Houston, Texas 77056-3166 Attn: Shelton M. Vaughan

- (f) Section 54 of the Underwriting Agreement is deleted in its entirety and replaced with the following:
- 5 4. Collateral Release. Notwithstanding anything in this Agreement or any other Surety Credit Document to the contrary, subject to prior or concurrent release by Bank of America, N.A., as Administrative Agent (the "Administrative Agent") for the lenders under that certain Third Amended and Restated Credit Agreement, dated as of October 30, 2013, as amended, modified, supplemented and extended from time to time (including, without limitation, any renewals, restatements and replacements thereof) (the "Third Amended and Restated Credit Agreement"), among the Administrative Agent, such lenders, Quanta Services, Inc. and its subsidiaries party thereto, of the Administrative Agent's liens and security interests granted pursuant to the Collateral Documents (as such term is defined in the Third Amended and Restated Credit Agreement), upon notice from Quanta Services, Inc., on the first date (the "Release Date") on which two of the following three conditions are met: (i) the corporate credit rating of Quanta Services, Inc. is BBB- or higher by

Standard & Poor's Ratings Services, a division of The McGraw Hill Companies, Inc. and any successor thereto ("S&P"), (ii) the corporate family rating of Quanta Services, Inc. is Baa3 or higher by Moody's Investors Service, Inc. and any successor thereto ("Moody's") or (iii) the corporate credit rating of Quanta Services, Inc. is BBB- or higher by Fitch Ratings, Inc. and any successor thereto ("Fitch") (each such rating described in clauses (i), (ii) and (iii), an "Investment Grade Rating"), and so long as no default or Event of Default exists on such date or immediately after giving effect to the release of liens contemplated hereby, any and all liens and security interests (including, without limitation, all Liens (as such term is defined in this Agreement) created by or arising in connection with this Agreement or any other Surety Credit Document shall automatically and immediately be fully released and all Collateral shall automatically and immediately be released from all such liens, all without delivery of any instrument or performance of any act by any party, and all rights to the Collateral or any other collateral or property constituting such a lien or subject to any such lien shall terminate and revert to the Indemnitors (the "Collateral Release"). At the request and sole expense of any Indemnitor following any such release, Surety shall deliver to such Indemnitor any Collateral or other such property held by Surety under any Surety Credit Document, and execute and deliver to such Indemnitor such documents as such Indemnitor shall reasonably request to evidence such release. In the event Surety requires the Indemnitors to execute such documents, promptly, and in any event within 60 days (or such longer period as is reasonably acceptable to Surety) after notice to Quanta Services, Inc. from Surety following the first date after the Release Date on which Quanta Services, Inc. fails to maintain an Investment Grade Rating from at least two of S&P, Moody's or Fitch, the Indemnitors shall (i) execute and deliver to Surety security documents, in form and substance reasonably satisfactory to Surety, pursuant to which the Indemnitors shall grant to Surety a security interest in all property (and types of property) then owned or held by such Person that constituted Collateral under the Surety Credit Documents as in effect immediately prior to the Release Date and (ii) take such actions as shall be necessary or reasonably requested by Surety to grant and perfect such Liens all at the expense of the Indemnitors (a "Collateral Reinstatement"). Without limiting the generality of the foregoing and except as provided in the following sentence, at all times after any Release Date and prior to consummation of a Collateral Reinstatement, Section 3(e) of this Agreement shall be deemed to have been deleted and this Section 54 shall govern and control to the extent of any conflict between the other provisions of this Agreement (including, without limitation, Section 5 of this Agreement) or the other Surety Credit Documents and this Section 54. In the event the Indemnitors fail to execute and deliver to Surety the above required documents, or Surety determines that it would prefer to proceed without these documents, then a Collateral Reinstatement will have occurred and this Section 54 will automatically be rendered null and void at such time as Quanta Services, Inc. fails to maintain an Investment Grade Rating from at least two of S&P, Moody's or Fitch, and the terms of the Surety Credit Documents will be reinstated as though this Section 54 had never been added to this Agreement. Notwithstanding any provisions of this Section 54, the foregoing Collateral Release will not adversely affect or modify: (x) Surety's right to decline to execute any and all bonds in Surety's

discretion, all as further provided in Section 3; (y) the contractual rights of Surety upon default as provided in Section 33 of this Agreement and as provided under the Indemnity Agreement; and (z) Surety's rights of equitable subrogation, which are hereby acknowledged by the Indemnitors.

- (g) Exhibit A to the Underwriting Agreement is hereby deleted in its entirety and replaced with Exhibit A to this Amendment.
- (h) A new Exhibit E to the Underwriting Agreement is hereby added in the form attached as Exhibit E to this Amendment.
- 3. <u>Representations and Warranties</u>. Each party to this Amendment, individually and for itself only, hereby represents and warrants to each of the other parties as follows:
- (a) The execution, delivery and performance by such party of this Amendment and the performance by such party of its respective obligations under this Amendment and the Underwriting Agreement, as amended hereby, and the consummation of the transactions contemplated hereby and thereby, (i) have been duly authorized by all necessary corporate or other such action, if any, and (ii) do not and will not, with or without the giving of notice or lapse of time or both, (x) contravene any term or condition of its organizational documents or (y) violate any applicable laws. Such party has all requisite corporate, partnership or limited liability company power and authority to enter into this Amendment and to perform its obligations hereunder and under the Underwriting Agreement, as amended hereby, as applicable.
- (b) This Amendment has been duly and validly executed and delivered by such party and this Amendment and the Underwriting Agreement, as amended hereby, as applicable, constitute the legal, valid and binding obligations of such party, enforceable against such party in accordance with their terms, subject to applicable bankruptcy, insolvency, fraudulent conveyance, reorganization, moratorium and similar laws affecting creditors' rights and remedies generally, and to general principles of equity (regardless of whether enforcement is sought in a proceeding at law or in equity).

#### 4. Release.

(a) Surety hereby (i) releases and terminates all liabilities, duties, covenants, and obligations of the Stallone Companies, together with their respective officers, directors, employees, and their respective successors and assigns, under the Surety Credit Documents (when referred to in this Section 4, "Obligations"), releases all assets and Collateral owned by each Stallone Company, and releases all claims, demands, actions, causes of action, debts, costs, and liabilities whatsoever, whether at law or in equity, under the Surety Credit Documents (when referred to in this Section 4, "Claims"), including, without limitation, any Obligations or Claims that relate to any of the Stallone Companies in the capacity as Indemnitor or Principal; (ii) releases all Liens of Surety on the Collateral that constitutes assets owned by the Stallone Companies; and (iii) terminates and releases any trusts created in favor of Surety in any funds owned or held by any of the Stallone Companies, provided, that, said funds are not proceeds of any Collateral provided to Surety by any of the other Indemnitors in which Surety retains its Lien and security interest, in each case without the need for

any further action. Surety hereby agrees and acknowledges that any and all such Obligations, Claims, and Liens are hereby terminated and released. Surety and the other parties hereto also agree that the power of attorney granted by any of the Stallone Companies in favor of Quanta pursuant to Section 53 of the Underwriting Agreement is hereby terminated. Notwithstanding the forgoing or anything in this Agreement or any other Surety Credit Document to the contrary, the foregoing will not release or limit the Stallone Companies from any indemnity or other Obligations of any of the Stallone Companies as may be expressly agreed to by any of such Stallone Companies in any other agreement entered into by any of such Stallone Companies after the Seventh Amendment Effective Date.

- (b) Surety hereby terminates and releases all liabilities, duties, covenants, and Obligations of Principals and the Indemnitors (but, for the avoidance of doubt, excluding the Stallone Companies), together with their respective officers, directors, employees, and their respective successors and assigns, under or in connection with the Stallone Open Bonds, and releases all claims, demands, actions, causes of action, debts, costs, and liabilities whatsoever, whether at law or in equity, under or in connection with the Stallone Open Bonds as they relate to Principals and the Indemnitors (but, for the avoidance of doubt, excluding the Stallone Companies), in each case without the need for any further action.
- (c) Surety will deliver or cause to be delivered to Quanta, or a party designated by Quanta, on the Seventh Amendment Effective Date, UCC Termination Statements and such other lien releases or termination documents, and will take or cause to be taken such other actions, in each case, as Quanta may request in order to evidence or otherwise give public notice of the termination of the Obligations, the Claims and the Liens and collateral terminations and releases of the Collateral of the Stallone Companies, and Quanta and/or its designee(s) are hereby authorized to file such UCC Termination Statements and other lien releases with the appropriate filing offices.
- 5. <u>Further Instruments and Actions</u>. The parties to this Amendment hereby agree to execute such further instruments and to take such further action as may reasonably be necessary to carry out the intent and purpose of this Amendment and the Underwriting Agreement, as amended hereby.
- 6. <u>Amendment</u>. This Amendment may not be amended or modified except by a writing signed by or on behalf of each of the parties hereto.
- 7. <u>Headings</u>. The section headings in this Amendment are included for convenience of reference only and will not constitute a part of this Amendment for any other purpose.
- 8. <u>Governing Law</u>. This Amendment will be governed by and construed and enforced in accordance with the laws of the State of New York (without giving effect to its conflict of laws principles).
- 9. <u>Ratification</u>. The Underwriting Agreement, the other Surety Credit Documents, and any other documents executed and delivered pursuant thereto or in connection therewith are each ratified and confirmed in all respects and will remain in full force and effect in accordance with their respective terms, as modified by this Amendment.

- 1 0 . <u>Entire Agreement</u>. This Amendment, together with the Underwriting Agreement and the other Surety Credit Documents, represent the entire agreement between the parties hereto concerning the subject matter hereof, and all oral discussions and prior agreements are merged herein.
- 11. <u>Severability</u>. Should any provision of this Amendment be invalid or unenforceable for any reason, the remaining provisions hereof will remain in full effect.
- 12. <u>Binding Agreement</u>. This Amendment, and the terms, covenants and conditions hereof, will be binding upon the parties hereto and their respective successors and assigns, and will inure to the benefit of the parties and their respective successors and permitted assigns.
- 13. <u>Counterparts</u>. This Amendment may be executed in multiple counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same instrument. A facsimile copy of an executed original counterpart of this Amendment shall have the same force and effect as an executed original counterpart.
- 1 4. <u>Effect</u>. Upon the effectiveness of this Amendment, each reference in the Underwriting Agreement to "this Agreement," "hereunder" or words of like import shall mean and be a reference to the Underwriting Agreement, as affected and amended by this Amendment.

[Signature Pages Follow]

IN WITNESS WHEREOF, the parties hereto have executed this Amendment as of the date first above written. **SURETY**: FEDERAL INSURANCE COMPANY By: /s/ David B. Norris, Jr Name: <u>David B. Norris</u>, Jr Title:\_Vice President LIBERTY MUTUAL INSURANCE COMPANY By: /s/ Kris L. Hill Name: Kris L. Hill Title: Assistant Secretary LIBERTY MUTUAL FIRE INSURANCE COMPANY By: /s/ Kris L. Hill Name: Kris L. Hill Title: Assistant Secretary SAFECO INSURANCE COMPANY OF **AMERICA** 

By: /s/ Kris L. Hill
Name: Kris L. Hill

Title: Assistant Secretary

AMERICAN HOME ASSURANCE COMPANY NATIONAL UNION FIRE INSURANCE COMPANY OF PITTSBURGH, PA. THE INSURANCE COMPANY OF THE STATE OF PENNSYLVANIA

By: /s/ John L. Ames
Name: John L. Ames
Title: V.P.\_\_\_\_

### PRINCIPAL/INDEMNITORS:

QUANTA SERVICES, INC.

By: /s/ Nicholas M. Grindstaff
Name: Nicholas M. Grindstaff
Title: Vice President - Finance

BRENT WOODWARD, INC. CAN-FER UTILITY SERVICES, LLC CONAM CONSTRUCTION CO. CRUX SUBSURFACE, INC. DACON CORPORATION DASHIELL CORPORATION ENERGY CONSTRUCTION SERVICES, INC. FIVE POINTS CONSTRUCTION CO. HARGRAVE POWER, INC. H.L. CHAPMAN PIPELINE CONSTRUCTION, INC. INFRASOURCE CONSTRUCTION, LLC INFRASOURCE FIELD SERVICES, LLC INFRASOURCE INSTALLATION, LLC INFRASOURCE, LLC INFRASOURCE SERVICES, LLC INTERMOUNTAIN ELECTRIC, INC. IRBY CONSTRUCTION COMPANY ISLAND MECHANICAL CORPORATION J.C.R. CONSTRUCTION CO., INC. J.W. DIDADO ELECTRIC, LLC MANUEL BROS., INC. MEARS CONSTRUCTION, LLC MEARS GROUP, INC. MEJIA PERSONNEL SERVICES, INC. MERCER SOFTWARE SOLUTIONS, LLC

M.J. ELECTRIC, LLC

NORTHSTAR ENERGY SERVICES, INC.

NOVA GROUP, INC.

NOVA NEXTGEN SOLUTIONS, LLC

PAR ELECTRICAL CONTRACTORS, INC.

PERFORMANCE ENERGY SERVICES, L.L.C.

PHOENIX POWER GROUP, INC.

POTELCO, INC.

PRICE GREGORY INTERNATIONAL, INC.

PROBST ELECTRIC, INC.

QPS ENGINEERING, LLC

QUANTA ELECTRIC POWER SERVICES, LLC

QUANTA ENERGY SERVICES, LLC

QUANTA FIELD SERVICES, LLC

QUANTA-POTELCO ELECTRICAL UTILITIES,

LLC

QUANTA POWER GENERATION, INC.

QUANTA TECHNOLOGY, LLC

QUANTA UTILITY INSTALLATION

COMPANY, INC.

ROAD BORE CORPORATION

SERVICE ELECTRIC COMPANY

SOUTHWEST TRENCHING COMPANY, INC.

SUMMIT LINE CONSTRUCTION, INC.

SUMTER UTILITIES, INC.

T. G. MERCER CONSULTING SERVICES, INC.

THE RYAN COMPANY, INC.

TOM ALLEN CONSTRUCTION COMPANY

UNDERGROUND CONSTRUCTION CO., INC.

UTILIMAP CORPORATION

UTILITY LINE MANAGEMENT SERVICES,

INC.

WINCO, INC.

By: /s/ Nicholas M. Grindstaff

Name: Nicholas M. Grindstaff

Title: Treasurer

DIGCO UTILITY CONSTRUCTION, L.P. LINDSEY ELECTRIC, L.P. NORTH HOUSTON POLE LINE, L.P.

By: Mejia Personnel Services, Inc., Its General Partner

By: /s/ Nicholas M. Grindstaff

Name: Nicholas M. Grindstaff

Title: Treasurer

## STALLONE COMPANIES:

QUANTA FIBER NETWORKS, INC. INFRASOURCE FI, LLC SUNESYS, LLC SUNESYS OF MASSACHUSETTS, LLC SUNESYS OF VIRGINIA, INC.

By: /s/ Nicholas M. Grindstaff

Name: Nicholas M. Grindstaff

Title: Treasurer

## Exhibit A

## LIST OF PRINCIPAL/INDEMNITORS

Principal	Jurisdiction of Formation	Location of Chief Executive Office and Principal Place of Business	Tax ID No.	Prior Names or Trade Names
Quanta Services, Inc.	Delaware	2800 Post Oak Blvd., Suite 2600 Houston, TX 77056	74-2851603	None
Brent Woodward, Inc.	Oregon	3743 N. Hwy 97 Redmond, OR 97756	93-1096658	None
CAN-FER Utility Services, LLC	Delaware	3340 Roy Orr Boulevard Grand Prairie, TX 75050	76-0589263	CAN-FER Construction Company  Quanta Utility Services, LLC  Northern Line Layers, LLC
Conam Construction Co.	Texas	301 W. Northern Lights Blvd., Ste. 300 Anchorage, AK 99503	75-1984829	None
Crux Subsurface, Inc.	Delaware	16707 E. Euclid Ave. Spokane Valley, WA 99216	76-0644263	Quanta LXV Acquisition, Inc.  Crux Engineering Group  Inland Pacific Drill Supply
Dacon Corporation	Delaware	1300 Underwood Road Deer Park, TX 77536	20-3699950	Dacon, LLC
Dashiell Corporation	Delaware	12301 Kurland Drive Ste. 400 Houston, TX 77034	20-3699713	Dashiell, LLC Dacon Corporation Dashiell (DE) Corporation
Digco Utility Construction, L.P.	Delaware	1608 Margaret Street Houston, TX 77093	76-0612176	Digco Utility Construction Limited Partnership  Ranger Field Services, Inc.
Energy Construction Services, Inc.	Delaware	14100 East Thirty-Fifth Place Ste. 100, Aurora, CO 80011	27-4914829	None
Five Points Construction Co.	Texas	5145 Industrial Way Benicia, CA 94510	94-2738636	None
Hargrave Power, Inc.	Delaware	3340 Roy Orr Blvd., Ste. 203 Grand Prairie, TX 75050	76-0612175	DE Southeast Pipeline Construction, Inc.  Quanta Utility Services-Gulf States, Inc.
H. L. Chapman Pipeline Construction, Inc.	Delaware	9250 FM 2243 Leander, TX 78641	76-0598341	DB Utilities Sullivan Welding Chapman Pipeline Construction, Inc., H.L.

# **EXHIBIT A** DM3\3445780.4

Principal	Jurisdiction of Formation	Location of Chief Executive Office and Principal Place of Business	Tax ID No.	Prior Names or Trade Names
InfraSource Construction, LLC	Delaware	4033 East Morgan Ypsilanti, MI 48197	04-3633384	IUC Illinois, LLC
				IUC North Dakota
				IUC Nebraska, LLC
				IUC Underground, LLC
				InfraSource Underground Construction, LLC
				QS Mats
				Trans Tech Electric
InfraSource Field Services, LLC	Delaware	4033 East Morgan Ypsilanti, MI 48197	27-1426720	None
InfraSource Installation, LLC	Delaware	4033 East Morgan Ypsilanti, MI 48197	41-1625874	None
InfraSource, LLC	Delaware	411 Edwardsville Road	20-5703765	InfraSource Construction California, Inc.
		Troy, IL 62294		IUS Underground, LLC
InfraSource Services, LLC	Delaware	14103 Stewart Road Sumner, WA 98390	30-0743355	None
Intermountain Electric, Inc.	Colorado	14100 East Thirty-Fifth Place Ste. 100, Aurora, CO 80011	84-0906573	Colorado IM Electric
				Grand Electric Company
				IME
				IM Electric, Inc.
				IME – Intermountain Electric, Inc.
Irby Construction Company	Mississippi	817 S. State Street	64-0902002	Irby Construction Company, Inc.
		Jackson, MS 39201		Okay Construction Company, LLC
Island Mechanical Corporation	Hawaii	91-230 Kuhela St. Kapolei, HI 96707	99-0299930	None
J.C.R. Construction Co., Inc.	New Hampshire	181 Route 27 Raymond, NH 03077	02-0392585	None
J.W. Didado Electric, LLC	Delaware	1022 Kelly Avenue Akron, OH 44306	47-3297963	None
Lindsey Electric, L.P.	Texas	1608 Margaret Street Houston, TX 77093	02-0557008	None
Manuel Bros., Inc.	Delaware	908 Taylorville Road,	76-0577087	Renaissance Construction
		Suite 104 Grass Valley, CA 95949		Western Directional
Mears Construction, LLC	Georgia	4033 East Morgan Ypsilanti, MI 48197	58-1696154	InfraSource Underground Construction Services, LLC
				InfraSource Construction Services, LLC
				Mears Construction of GA, LLC
Mears Group, Inc.	Delaware	4500 N. Mission Road Rosebush, MI 48878	76-0612167	Mears/CPG LLC
				Mears/HDD, LLC

Principal	Jurisdiction of Formation	Location of Chief Executive Office and Principal Place of Business	Tax ID No.	Prior Names or Trade Names
Mejia Personnel Services, Inc.	Texas	2800 Post Oak Blvd., Ste. 2600, Houston, TX 77056	75-2575734	None
Mercer Software Solutions, LLC	Texas	120 El Chico Trail Willow Park, TX 76087	45-3082618	Mercer Technical Services
M.J. Electric, LLC	Delaware	200 W. Frank Pipp Drive Iron Mountain, MI 49801	20-5565796	Great Lakes Line Builders M.J. Electric California, Inc. M.J. Electric, LLC Iron Mountain Iron Mountain M.J. Electric, LLC
North Houston Pole Line, L.P.	Texas	1608 Margaret Street Houston, TX 77093	74-1675857	Quanta Foundation Services  Quanta Foundation Services, Limited Partnership
NorthStar Energy Services, Inc.	North Carolina	11712 Statesville Road Huntersville, NC 28078	56-0861169	InfraSource Pipeline Facilities, Inc. Bradford Brothers, Incorporated
Nova Group, Inc.	California	185 Devlin Road Napa, CA 94558	94-1395150	NGI Construction, Inc. NGI Construction
Nova NextGen Solutions, LLC	Delaware	185 Titus Avenue Warrington, PA 18976	27-1243294	None
PAR Electrical Contractors, Inc.	Missouri	4770 North Belleview Avenue, Ste. 300 Kansas City, MO 64116	44-0591890	Riggin & Diggin Line Construction, Inc. Computapole Union Power Construction Company Seaward Corporation Longfellow Drilling, Inc. Par Infrared Consultants
Performance Energy Services, L.L.C.	Louisiana	132 Valhi Lagoon Crossing Houma, LA 70360	72-1477905	None
Phoenix Power Group, Inc.	Delaware	711 Grand Blvd. Deer Park, New York 11729	45-4066382	None
Potelco, Inc.	Washington	14103 8th Street East Sumner, WA 98390	91-0784248	Allteck Line Contractors (USA), Inc. Kingston Constructors, Inc. Kuenzi Construction, Inc. NorAm Telecommunications, Inc. Potelco, Incorporated
Price Gregory International, Inc.	Delaware	920 Memorial City Way, Ste. 600 Houston, TX 77024	73-1103884	None

Principal	Jurisdiction of Formation	Location of Chief Executive Office and Principal Place of Business	Tax ID No.	Prior Names or Trade Names
Probst Electric, Inc.	Utah	875 South 6 <sup>th</sup> West Ste. 600 Heber City, UT 84032	46-2477123	None
QPS Engineering, LLC	Delaware	4500 S. Garnett Exchange Center, Ste. 700 Tulsa, OK 74	27-1803910	None
Quanta Electric Power Services, LLC	Delaware	2800 Post Oak Blvd., Suite 2600 Houston, Texas 77056	46-1225848	None
Quanta Energy Services, LLC	Delaware	2800 Post Oak Blvd., Suite 2600 Houston, Texas 77056	46-1255956	None
Quanta Field Services, LLC	Delaware	5445 DTC Parkway Ste. 1200 Greenwood Village, CO 80111	90-1021748	None
Quanta-Potelco Electrical Utilities, LLC	Delaware	2800 Post Oak Blvd., Suite 2600 Houston, Texas 77056	47-4072819	None
Quanta Power Generation, Inc.	Delaware	5445 DTC Parkway Ste. 1200 Greenwood Village, CO 80111	26-2274603	Quanta Renewable Energy Services, LLC
				Quanta Renewable Energy
				Quanta Fossil Power
				Quanta
Quanta Technology, LLC	Delaware	4020 Westchase Blvd. Ste. 300 Raleigh, NC 27607	56-2677058	Delaware Quanta Technology, LLC
Quanta Utility Installation Company, Inc.	Delaware	2800 Post Oak Blvd., Suite 2600 Houston, Texas 77056	76-0592449	None
Road Bore Corporation	Hawaii	91-230 Kuhela St. Kapolei, HI 96707	99-0299930	None
Service Electric Company	Delaware	1621 East 25th Street Chattanooga, TN 37404	76-0644270	Quanta LXVI Acquisition, Inc.
Southwest Trenching Company, Inc.	Texas	1608 Margaret St. Houston, Texas 77093	76-0106600	None
Summit Line Construction, Inc.	Utah	875 South Industrial Pkwy Heber City, UT 84032	27-1618499	None
Sumter Utilities, Inc.	Delaware	1151 North Pike West Sumter, SC 29153	76-0577089	Sumter Builders Construction Contracting
T. G. Mercer Consulting Services, Inc.	Texas	120 El Chico Trail Willow Park, TX 76087	71-0679572	None

Principal	Jurisdiction of Formation	Location of Chief Executive Office and Principal Place of Business	Tax ID No.	Prior Names or Trade Names
The Ryan Company, Inc.	Massachusetts	15 Commerce Way	04-2387367	Eastern Communications Corp.
		Norton, MA 02766		The Ryan Company, Inc. of Massachusetts
				The Ryan Company of Massachusetts
				Ryan Company Inc. (The)
				The Ryan Company Incorporated of Massachusetts
				The Ryan Company Incorporated Electrical Contractors
Tom Allen Construction Company	Delaware	411 Edwardsville Road	76-0589277	TA Construction
		Troy, Illinois 62294		Allen Construction Company, Tom
Underground Construction Co., Inc.	Delaware	5145 Industrial Way	76-0575471	Delaware Underground Construction Co.
		Benicia, CA 94510		Maryland Underground Construction Co., Inc.
				Underground Construction Co., Inc. (Delaware)
				UCC-Underground Construction Co., Inc.
Utilimap Corporation	Missouri	10025 Office Center Ave. St. Louis, MO 63128	43-1939873	Computapole
Utility Line Management Services, Inc.	Delaware	4770 North Belleview Avenue, Suite 300 Kansas City, Missouri 64116-2188	76-0612162	None
Winco, Inc.	Oregon	22300 NE Yellow Gate Lane Aurora, OR 97002	93-1077101	Winco Powerline Services

5 DM3\3445780.4

## Exhibit E

## STALLONE OPEN BONDS

(Attached)

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- I, Earl C. Austin, Jr., certify that:
- 1. I have reviewed this quarterly report on Form 10-Q of Quanta Services, Inc.;
- 2. 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:
- (a) 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.

Dated: August 7, 2018 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 quarterly report on Form 10-Q of Quanta Services, Inc.;
- 2. 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:
- (a) 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.

Dated: August 7, 2018 By: /s/ DERRICK A. JENSEN

Derrick A. Jensen Chief Financial Officer (Principal Financial Officer)

#### 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-Q report for the period endingJune 30, 2018 as filed with the U.S. Securities and Exchange Commission (the "Report") fully complies with the requirements of Section 13(a) 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 as of the dates and for the periods expressed in the Report.

Dated: August 7, 2018

/s/ EARL C. AUSTIN, JR.

Earl C. Austin, Jr.

President, Chief Executive Officer and Chief Operating Officer

Dated: August 7, 2018

/s/ DERRICK A. JENSEN

Derrick A. Jensen Chief Financial Officer