

Navios Maritime Acquisition CORP
Form 6-K
June 21, 2011

SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549
FORM 6-K
REPORT OF FOREIGN PRIVATE ISSUER
PURSUANT TO RULE 13a-16 OR 15d-16 OF THE
SECURITIES EXCHANGE ACT OF 1934
Dated: June 17, 2011
Commission File No. 001-34104
NAVIOS MARITIME ACQUISITION CORPORATION
85 Akti Miaouli Street, Piraeus, Greece 185 38

(Address of Principal Executive Offices)

Indicate by check mark whether the registrant files or will file annual reports under cover Form 20-F or Form 40-F:

Form 20-F Form 40-F

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T

Rule 101(b)(1):

Yes No

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T

Rule 101(b)(7):

Yes No

Indicate by check mark whether the registrant by furnishing the information contained in this Form is also thereby furnishing

the information to the Commission pursuant to Rule 12g3-2(b) under the Securities Exchange Act of 1934.

Yes No

If Yes is marked, indicate below the file number assigned to the registrant in connection with Rule 12g3-2(b):

N/A

This Report on Form 6-K is hereby incorporated by reference into the Navios Maritime Acquisition Corporation's Registration Statements on Form F-3, File Nos. 333-151707, 333-169320 and 333-170896.

On June 17, 2011, Navios Maritime Acquisition Corporation (Navios Acquisition) issued a press release announcing the acquisition of two MR2 product tanker vessels, employed under long-term charter-out contracts with a remaining term of three years. The aggregate purchase price for the two vessels is approximately \$84.8 million. Navios Acquisition is expected to finance the acquisition with available cash and \$55.1 million of new debt. Delivery of the vessels is expected in July 2011. A copy of the press release is furnished as Exhibit 99.1 to this Report and is incorporated herein by reference.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this Report to be signed on its behalf by the undersigned, thereunto duly authorized.

NAVIOS MARITIME ACQUISITION
CORPORATION

By: /s/ Angeliki Frangou

Angeliki Frangou
Chief Executive Officer
Date: June 21, 2011

EXHIBIT INDEX

Exhibit No. Exhibit

99.1 Press Release, dated June 17, 2011.

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SNCR Systems: Our NO_xOUT[®] and HERT[™] SNCR processes use non-hazardous urea as the reagent rather than ammonia. Both the NO_xOUT[®] and HERT[™] processes on their own are capable of reducing NO_x by up to 25% - 50% for utilities and by potentially significantly greater amounts for industrial units in many types of plants with capital costs ranging from \$5 - \$20/kW for utility boilers and with total annualized operating costs ranging from \$1,000 - \$2,000/ton of NO_x removed.

I-NO_x[®] Systems: Our I-NO_x[®] systems can include LNB, OFA, and SNCR components, along with SCR technology, Ammonia Injection Grid (AIG), and Graduated Straightening Grid (GSG[™]) system. Together, these systems provide up to 90% NO_x reduction at significantly lower capital and operating costs than conventional SCR systems while providing greater operational flexibility to plant operators. The capital costs for I-NO_x[®] systems can range from \$30 - \$150/kW depending on boiler size and configuration, which is significantly less than that of conventional SCRs, which can cost \$300/kW or more, while operating costs are competitive with those experienced by SCR systems. Our SCR systems utilize urea or ammonia as the SCR catalyst reagent to achieve NO_x reductions of up to 85% from industrial combustion sources.

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ULTRA Technology: Our ULTRA[®] process is designed to convert urea to ammonia safely and economically for use as a reagent in the SCR process for NO_x reduction. Recent local objections in the ammonia permitting process have raised concerns regarding the safety of ammonia shipment and storage in quantities sufficient to supply SCR. In addition, the Department of Homeland Security has characterized anhydrous ammonia as a Toxic Inhalation Hazard commodity. Our ULTRA[®] process is believed to be a market leader for the safe conversion of urea to ammonia just prior to injection into the flue gas duct, which is particularly important near densely populated cities, major waterways, harbors or islands, or where the transport of anhydrous or aqueous ammonia is a safety concern. Ammonia feed systems provide reagent flexibility for SCR reagent feed system, while our UDI[™] Urea Direct Injection systems utilize direct injection of reagent without the need for an ammonia injection grid.

SCR Processes and Services: Our SCR group provides process design optimization, performance testing and improvement, and catalyst selection services for SCR systems on coal-fired boilers. In addition, other related services, including start-ups, maintenance support and general consulting services for SCR systems, Ammonia Injection Grid design and tuning to help optimize catalyst performance, and catalyst management services to help optimize catalyst life, are now offered to customers around the world. We also specialize in computational fluid dynamics models, which simulate fluid flow by generating a virtual replication of real-world geometry and operating inputs. We design flow corrective devices, such as turning vanes, ash screens, static mixers and our patented GSG[®] Graduated Straightening Grid. Our models help clients optimize performance in flow critical equipment, such as selective catalytic reactors in SCR systems, where the effectiveness and longevity of catalysts are of utmost concern. The Company's modeling capabilities are also applied to other power plant systems where proper flow distribution and mixing are important for performance, such as flue gas desulfurization scrubbers, electrostatic precipitators, air heaters, exhaust stacks and carbon injection systems for mercury removal.

ESP Processes and Services: ESP technologies for particulate control include Electrostatic Precipitator (ESP) products and services including ESP Inspection Services, Performance Modeling, and Performance and Efficiency Upgrades, along with complete turnkey capability for ESP retrofits. Flue gas conditioning (FGC) systems include treatment using sulfur trioxide (SO₃) and ammonia (NH₃) based systems to improve the performance of ESPs by modifying the properties of the fly ash particle. Our ULTRA technology can provide the ammonia system feed requirements for FGC applications as a safe alternative to ammonia reagent based systems. FGC systems offer a lower capital cost approach to improving ash particulate capture versus the alternative of installing larger ESPs or utilizing fabric filter technology to meet targeted emissions and opacity limits. Fuel Tech's particulate control technologies have been installed on more than 125 units worldwide.

Burner Systems: Low NO_x Burners and Ultra Low NO_x Burners (LNB and ULNB) are available for coal-, oil-, and gas-fired industrial and utility units. Each system application is specifically designed to maximize NO_x reduction. Computational fluid dynamics combustion modeling is used to validate the design prior to fabrication of equipment. NO_x reductions can range from 40%-60% depending on the fuel type. Over-Fire Air (OFA) systems stage combustion for enhanced NO_x reduction. Additional NO_x reductions, beyond Low NO_x Burners, of 35% - 50% are possible on different boiler configurations on a range of fuel types. Combined overall reductions range from 50% - 70%, with overall capital costs ranging from \$10 - \$20/kW and total costs ranging from \$300 - \$1,500/ton of NO_x removed, depending on the scope.

The key market dynamic for the APC product line is the continued use of coal as the principal fuel source for global electricity production. Coal currently accounts for approximately 30% of all U.S. electricity generation and roughly 69% of Chinese electricity generation. Major coal consumers include China, the United States and India. The growth of natural gas in the U.S. for industrial applications has increased the need for SCR technology since it often meets the definition of Best Available Control Technology and is required on new industrial units.

Sales of APC products were \$27.8 million, \$34.1 million, and \$43.5 million for the years ended December 31, 2017, 2016 and 2015, respectively.

NO_x Reduction Competition

Competition with our NO_x reduction suite of products may be expected from companies supplying urea SNCR systems, combustion modification products, SCR systems and ammonia SNCR systems. In addition, we experience competition in the urea-to-ammonia conversion market.

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Combustion modifications, including Low NO_x Burners and Over-Fire Air systems, can be fitted to most types of boilers with cost and effectiveness varying with specific boilers. Combustion modifications may yield up to 20% - 60% NO_x reduction economically with capital costs ranging from \$10 - \$20/kW and total costs ranging from \$300 - \$1,500/ton of NO_x removed. The modifications are designed to reduce the formation of NO_x and are typically the first NO_x reduction efforts employed. Companies such as GE, and Babcock & Wilcox Company, are active competitors in the Low NO_x Burner business. Once NO_x is formed, then the SCR process is an effective and proven method of control for removal of NO_x up to 90%. SCR systems have a high capital cost of \$300+/kW on retrofit coal applications. Such companies as GE, Babcock Power, Babcock & Wilcox Company, CECO Environmental and Mitsubishi Hitachi, are active SCR system and reagent feed system providers.

The use of ammonia as the reagent for the SNCR process can reduce NO_x by 30% - 70% on incinerators but has limited applicability in the utility industry. Ammonia system capital costs range from \$5 - \$20/kW, with annualized operating costs ranging from \$1,000 - \$3,000/ton of NO_x removed. These systems require the use of either anhydrous or aqueous ammonia, both of which are hazardous substances.

In addition to or in lieu of using the foregoing processes, certain customers may elect to close or de-rate plants, purchase electricity from third-party sources, switch from higher to lower NO_x-emitting fuels or purchase NO_x emission allowances.

Lastly, with respect to urea-to-ammonia conversion technologies, a competitive approach to our controlled urea decomposition system competes with Wahlco, Inc., which manufactures a system that hydrolyzes urea under high temperature and pressure.

APC Backlog

Consolidated APC segment backlog at December 31, 2017 was \$22.1 million versus backlog at December 31, 2016 of \$8.0 million. A substantial portion of the backlog as of December 31, 2017 should be recognized as revenue in fiscal 2018, although the timing of such revenue recognition in 2018 is subject to the timing of the expenses incurred on existing projects.

FUEL CHEM

Product and Markets

The FUEL CHEM[®] technology segment revolves around the unique application of specialty chemicals to improve the efficiency, reliability and environmental status of plants operating in the electric utility, industrial, pulp and paper, waste-to-energy, and university and district heating markets. FUEL CHEM programs are currently in place on combustion units in North America, Mexico and Europe, treating a wide variety of solid and liquid fuels, including coal, heavy oil, black liquor, biomass and municipal waste.

Central to the FUEL CHEM approach is the introduction of chemical reagents, such as magnesium hydroxide, to combustion units via in-body fuel application (pre-combustion) or via direct injection (post-combustion) utilizing our proprietary TIFI[®] technology. By attacking performance-hindering problems, such as slagging, fouling and corrosion, as well as the formation of sulfur trioxide (SO₃), and ammonium bisulfate (ABS), our programs offer numerous operational, financial and environmental benefits to owners of boilers, furnaces and other combustion units.

The key market dynamic for this product line is the continued use of coal as the principal fuel source for global electricity production. Coal currently accounts for approximately 30% of all U.S. electricity generation and roughly 69% of Chinese electricity generation. Major coal consumers include the United States, China and India. Additional market dynamics include a growing, worldwide utilization of biomass for both steam and electrical production, as well as the strengthening of the pulp and paper industry worldwide, resulting in black liquor recovery boilers needing to maximize throughput.

The principal markets for this product line are electric power plants burning coals with slag-forming constituents such as sodium, iron and high levels of sulfur. Sodium is typically found in the Powder River Basin coals of Wyoming and Montana. Iron is typically found in coals produced in the Illinois Basin region. High sulfur content is typical of Illinois Basin coals and certain Appalachian coals. High sulfur content can give rise to unacceptable levels of SO₃ formation especially in plants with SCR systems and flue gas desulfurization units (scrubbers).

The combination of slagging coals and SO₃-related issues, such as “blue plume” formation, air pre-heater fouling and corrosion, SCR fouling and the proclivity to suppress certain mercury removal processes, represents an attractive market potential for Fuel Tech.

Sales of the FUEL CHEM products were \$17.4 million, \$21.1 million, and \$30.2 million for the years ended December 31, 2017, 2016 and 2015, respectively.

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Competition

Competition for our FUEL CHEM product line includes chemicals sold by specialty chemical and combustion engineering companies, such as Ashland Inc., Environmental Energy Services, Inc., and GE Infrastructure. No technologically comparable substantive competition currently exists for our TIFI technology, which is designed primarily for slag control and SO₃ abatement, but there can be no assurance that such lack of substantive competition will continue.

INTELLECTUAL PROPERTY

The majority of our products are protected by U.S. and non-U.S. patents. We own 128 granted patents worldwide and 13 allowed utility model patents in China. We have 68 patent applications pending; including 12 in the United States and 56 in non-U.S. Jurisdictions. These patents and applications cover some 32 inventions, 16 associated with our NO_x reduction business, 14 associated with the FUEL CHEM business, and two associated with the Fuel Conversion business. Our granted patents have expiration dates ranging from October of 2018 to May of 2037.

Management believes that the protection provided by the numerous claims in the above referenced patents or patent applications is substantial, and afford us a significant competitive advantage in our business. Accordingly, any significant reduction in the protection afforded by these patents or any significant development in competing technologies could have a material adverse effect on our business.

EMPLOYEES

At December 31, 2017, we had 122 employees, 82 in North America, 32 in China and eight in Europe. We enjoy good relations with our employees and are not a party to any labor management agreement.

RELATED PARTIES

Douglas G. Bailey, a member of our Board, is a stockholder of American Bailey Corporation (ABC), which is a related party. Please refer to Note 11 to the consolidated financial statements in this Form 10-K for information about our transactions with ABC. Additionally, see the more detailed information relating to this subject under the caption "Certain Relationships and Related Transactions" in our definitive Proxy Statement to be distributed in connection with our 2018 Annual Meeting of Stockholders, which information is incorporated by reference.

AVAILABLE INFORMATION

We are a fully integrated company using a suite of advanced technologies to provide boiler optimization, efficiency improvement and air pollution reduction and control solutions to utility and industrial customers worldwide. Originally incorporated in 1987 under the laws of the Netherlands Antilles as Fuel-Tech N.V., we were domesticated in the United States on September 30, 2006, and continue as a Delaware corporation with our corporate headquarters at 27601 Bella Vista Parkway, Warrenville, Illinois, 60555-1617. Fuel Tech maintains an Internet website at www.ftek.com. Our Annual Report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and any amendments to those reports filed or furnished pursuant to Section 13(a) of the Exchange Act are made available through our website as soon as reasonably practical after we electronically file or furnish the reports to the Securities and Exchange Commission. Our website also contains our Corporate Governance Guidelines and Code of Ethics and Business Conduct, as well as the charters of the Audit, Compensation, and Nominating and Corporate Governance committees of the Board of Directors. All of these documents are available in print without charge to stockholders who request them. Information on our website is not incorporated into this report.

ITEM 1A - RISK FACTORS

Investors in our Common Shares should be mindful of the following risk factors relative to our business.

Our Product Portfolio Lacks Diversification

We have two broad technology segments that provide advanced engineering solutions to meet the pollution control, efficiency improvement, and operational optimization needs of coal-fired energy-related facilities worldwide. They

are as follows:

The Air Pollution Control technology segment includes technologies to reduce NO_x emissions in flue gas from boilers, incinerators, furnaces and other stationary combustion sources. These include Low and Ultra Low NO_x Burners (LNB and ULNB), Over-Fire Air (OFA) systems, NO_xOUT[®] and HERT[™] Selective Non-Catalytic Reduction (SNCR) systems, and Advanced Selective Catalytic Reduction (ASCR[™]) systems. The ASCR system includes ULNB, OFA, and SNCR components, along with a downsized SCR catalyst, Ammonia Injection Grid (AIG), and Graduated Straightening Grid (GSG[™]) systems to provide high NO_x reductions at significantly lower capital and operating costs than conventional

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SCR systems. The NO_xOUT CASCADE® and NO_xOUT-SCR® processes are basic types of ASCR systems, using just SNCR and SCR catalyst components. ULTRA® technology creates ammonia at a plant site using safe urea for use with any SCR application. ESP technologies make use of electrostatic precipitator products and services to reduce particulate matter. Flue Gas Conditioning systems are chemical injection systems offered in markets outside the U.S. and Canada to enhance electrostatic precipitator and fabric filter performance in controlling particulate emissions.

The FUEL CHEM® technology segment which uses chemical processes in combination with advanced Computational Fluid Dynamics (CFD) and Chemical Kinetics Modeling (CKM) boiler modeling for the control of slagging, fouling, corrosion, opacity and other sulfur trioxide-related issues in furnaces and boilers through the addition of chemicals into the furnace using TIFI® Targeted In-Furnace Injection™ technology.

An adverse development in our advanced engineering solution business as a result of competition, technological change, government regulation, customers converting to use natural gas or other fuels, or any other factor could have a significantly greater impact than if we maintained more diverse operations.

We Face Substantial Competition

Competition in the Air Pollution Control market comes from competitors utilizing their own NO_x reduction processes, including SNCR systems, Low NO_x Burners, Over-Fire Air systems, flue gas recirculation, ammonia SNCR and SCR, which do not infringe our patented technologies. Indirect competition will also arise from business practices such as the purchase rather than the generation of electricity, fuel switching, closure or de-rating of units, and sale or trade of pollution credits and emission allowances. Utilization by customers of such processes or business practices or combinations thereof may adversely affect our pricing and participation in the NO_x control market if customers elect to comply with regulations by methods other than the purchase of our Air Pollution Control products. See Item 1 “Products” and “NO_x Reduction Competition” in the Air Pollution Control segment overview.

Competition in the FUEL CHEM markets includes chemicals sold by specialty chemical and combustion engineering companies, such as NALCO (Ecolab), GE Infrastructure, and Environmental Energy Services, Inc.

Demand for Our APC and FUEL CHEM Products is Affected by External Market Factors

Reduced coal-fired electricity demand across the United States has led to coal-fired electricity production declines. Contributing to this decline in coal-fired generations were 1) lower natural gas prices which allowed utility operators to increase the amount of power generated from natural gas plants, 2) increased cost of environmental compliance with current environmental regulations, 3) constrained funding for capital projects, and 4) the uncertainty of regulation resulted in electricity generating unit operators delaying investment in NO_x emission remediation plans until such time as the United States Environmental Protection Agency further clarifies the regulations.

Our Business Is Dependent on Continuing Air Pollution Control Regulations and Enforcement

Our business is significantly impacted by and dependent upon the regulatory environment surrounding the electricity generation market. Our business will be adversely impacted to the extent that regulations are repealed or amended to significantly reduce the level of required NO_x reduction, or to the extent that regulatory authorities delay or otherwise minimize enforcement of existing laws. Additionally, long-term changes in environmental regulation that threaten or preclude the use of coal or other fossil fuels as a primary fuel source for electricity production which result in the reduction or closure of a significant number of fossil fuel-fired power plants may adversely affect our business, financial condition and results of operations. See Item 1 above under the caption “Regulations and Markets” in the Air Pollution Control segment overview.

We May Not Be Able to Successfully Protect our Patents and Proprietary Rights

We hold licenses to or own a number of patents for our products and processes. In addition, we also have numerous patent applications pending both in the U.S. and abroad. There can be no assurance that any of our pending patent applications will be granted or that our outstanding patents will not be challenged, overturned or otherwise circumvented by competitors. In foreign markets, the absence of harmonized patent laws makes it more difficult to

ensure consistent respect for our patent rights in emerging markets. In addition, certain critical technical information relating to our products which is not patented is held as trade secret, and protected by trade secret laws and restrictions on disclosure contained in our confidentiality and licensing agreements. There can be no assurance that such protections will prove adequate or that we will have adequate remedies against contractual counterparties for disclosure of our trade secrets or other violations of our intellectual property rights. See Item 1 above under the caption "Intellectual Property."

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Our Results May Be Affected By Foreign Operations

In 2007, we expanded our operations in China by establishing a wholly-owned subsidiary in Beijing. Our management believes that the Asia-Pacific region, particularly China, offers significant market opportunities as nations in this region look to establish and implement regulatory policies for improving their environment and utilizing fossil fuels, especially coal, efficiently and effectively. In 2012, we expanded our operations in Latin and South America by establishing a wholly-owned subsidiary in Chile. The future business opportunities in these markets are dependent on the continued implementation and enforcement of regulatory policies that will benefit our technologies, the acceptance of our engineering solutions in such markets, the ability of potential customers to utilize our technologies on a competitive, cost-effective basis, and our ability to protect and enforce our intellectual property rights.

Our Operating Results May Be Adversely Affected by Product Pricing

The onset of significant competition for either of the technology segments might require us to lower our product prices in order to remain competitive and have a corresponding adverse impact on our realized gross margins and operating profitability. See the risk factor entitled “We Face Substantial Competition” above.

We May Not Be Able to Purchase Raw Materials on Commercially Advantageous Terms

Our FUEL CHEM technology segment is dependent, in part, upon a supply of magnesium hydroxide. Any adverse changes in the availability of this chemical will likely have an adverse impact on ongoing operation of our FUEL CHEM programs. On March 4, 2009, we entered into a Restated Product Supply Agreement (“PSA”) with Martin Marietta Magnesia Specialties, LLC (MMMS) in order to assure the continuance of a stable supply from MMMS of magnesium hydroxide products for our requirements in the United States and Canada. The term of the PSA expires on December 31, 2019. Pursuant to the PSA, MMMS supplies us with magnesium hydroxide products manufactured pursuant to our specifications and we have agreed to purchase from MMMS, and MMMS has agreed to supply, 100% of our requirements for such magnesium hydroxide products for our customers who purchase such products for delivery in the United States and Canada. There can be no assurance that we will be able to obtain a stable source of magnesium hydroxide in markets outside the United States.

Our Customer Base Is Highly Concentrated

A small number of customers have historically accounted for a significant portion of our revenues. There can be no assurance that our current customers will continue to place orders, that orders by existing customers will continue at the levels of previous periods, or that we will be able to obtain orders from new customers. The loss of one or more of our customers could have a material adverse effect on our sales and operating results.

We May Not Be Able to Borrow Funds Pursuant to our Credit Facilities

We are party to a \$5.0 million domestic revolving credit agreement with JPMorgan Chase Bank, N.A. As of December 31, 2017, there were no outstanding borrowings on this facility, and we had advanced \$3.0 million of Letters of Credit. The Facility is secured by cash held by the Company in a separate restricted use designated JPM Chase deposit account, which is not readily available for our operating needs. The balance in this restricted cash account is \$6,020 as of December 31, 2017. In addition, our Chinese subsidiary, Beijing Fuel Tech Environmental Technologies Company, Ltd., has a RMB 6.5 million (approximately \$999) revolving credit facility with JPMorgan Chase Bank (China) Company Limited. As of December 31, 2017, there were no outstanding borrowings under this facility, and we had outstanding bank guarantees of approximately \$0.2 million. In the event of any default on our part under either of these agreements, the lender is entitled to accelerate payment of any amounts outstanding and may, under certain circumstances, cancel the facilities. If we were unable to obtain a waiver for a breach of covenant and the lender accelerated the payment of any outstanding amounts, such acceleration may cause our cash position to significantly deteriorate or, if cash on hand were insufficient to satisfy the payment due, may require us to obtain alternate financing.

We may not be able to recover a significant portion of our carrying value of our assets held for sale associated with our Fuel Conversion business segment

Effective June 28, 2017, the Company has suspended all operations associated with the Fuel Conversion business segment. We may not be able to realize as much value from the sale of the assets as we expect and we may incur higher than expected, or unforeseen, costs associated with the disposal related activities. Any of the foregoing could have a material adverse effect on our business, financial position and results of operations.

ITEM 1B - UNRESOLVED STAFF COMMENTS

None

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ITEM 2 - PROPERTIES

We own an office building in Warrenville, Illinois, which has served as our corporate headquarters since June 23, 2008. This facility, with approximately 40,000 square feet of office space, is sufficient to meet our requirements for the foreseeable future.

We also operate from leased office facilities and we do not segregate any of these leased facilities by operating business segment. The terms of the Company's eight primary lease arrangements are as follows:

• The Stamford, Connecticut building lease, for approximately 6,440 square feet, runs from February 1, 2010 to December 31, 2019. The facility houses certain administrative functions.

• The Beijing, China building lease, for approximately 9,000 square feet, runs from June 1, 2017 to May 31, 2020. This facility serves as the operating headquarters for our Beijing Fuel Tech operation.

• The Durham, North Carolina building lease, for approximately 2,590 square feet, runs from July 1, 2016 to July 31, 2019. This facility houses engineering operations.

• The Gallarate, Italy building lease, for approximately 1,636 square feet, runs from May 1, 2013 to April 30, 2019. This facility serves as the operating headquarters for our European operations.

• The Westlake, Ohio building lease, for approximately 3,000 square feet, runs from May 1, 2017 to April 30, 2020. This facility houses engineering operations.

• The Aurora, IL warehouse lease, for approximately 11,000 square feet, runs from September 1, 2013 to December 31, 2020. This facility serves as an outside warehouse facility.

• The Overland Park, KS lease, for approximately 600 square feet, runs from October 16, 2015 to October 15, 2018. This facility serves primarily as a sales office.

ITEM 3 - LEGAL PROCEEDINGS

We are from time to time involved in litigation incidental to our business. We are not currently involved in any litigation in which we believe an adverse outcome would have a material effect on our business, financial condition, results of operations, or prospects.

ITEM 4 – MINE SAFETY DISCLOSURES

Not Applicable

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PART II

ITEM 5 - MARKET FOR REGISTRANT'S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASE OF EQUITY SECURITIES

Market

Our Common Shares have been traded since September 1993 on The NASDAQ Stock Market, Inc, where it trades under the symbol FTEK.

Prices

The table below sets forth the high and low sales prices during each calendar quarter since January 2016.

| 2017 | High | Low |
|----------------|--------|--------|
| Fourth Quarter | \$1.17 | \$0.91 |
| Third Quarter | 1.14 | 0.79 |
| Second Quarter | 0.99 | 0.76 |
| First Quarter | 1.28 | 1.02 |

| 2016 | High | Low |
|----------------|--------|--------|
| Fourth Quarter | \$1.51 | \$1.13 |
| Third Quarter | 1.80 | 1.31 |
| Second Quarter | 1.86 | 1.41 |
| First Quarter | 2.05 | 1.50 |

Dividends

We have never paid cash dividends on the Common Shares and have no current plan to do so in the foreseeable future. The declaration and payment of dividends on the Common Shares are subject to the discretion of our Board of Directors. The decision of the Board of Directors to pay future dividends will depend on general business conditions, the effect of a dividend payment on our financial condition, and other factors the Board of Directors may consider relevant. The current policy of the Board of Directors is to reinvest earnings in operations to promote future growth.

Holdings

As of February 28, 2018, there were 111 holders of record of our common stock, which does not include the number of beneficial owners whose common stock was held in street name or through fiduciaries.

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Performance Graph

The following line graph compares our total return to stockholders per common share for the five years ended December 31, 2017 to that of the NASDAQ Composite Index and the WilderHill Progressive Energy Index for the period December 31, 2012 through December 31, 2017. The graph tracks the performance of a \$100 investment in the Company's common stock and in each of the indexes (with the reinvestment of all dividends) on December 31, 2012.

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ITEM 6 - SELECTED FINANCIAL DATA

Selected financial data are presented below as of the end of and for each of the fiscal years in the five-year period ended December 31, 2017. The selected financial data should be read in conjunction with the audited consolidated financial statements as of and for the year ended December 31, 2017, and “Management’s Discussion and Analysis of Financial Condition and Results of Operations” included elsewhere in this report and the schedules thereto.

| CONSOLIDATED STATEMENT OF OPERATIONS DATA (in thousands of dollars, except for share and per-share data) | For the years ended December 31 | | | | |
|---|---------------------------------|------------|------------|------------|------------|
| | 2017 | 2016 | 2015 | 2014 | 2013 |
| Revenues | \$45,166 | \$55,161 | \$73,664 | \$79,017 | \$109,338 |
| Cost of sales | 27,144 | 36,367 | 45,107 | 43,889 | 62,521 |
| Selling, general and administrative | 20,933 | 25,564 | 30,897 | 35,432 | 36,375 |
| Restructuring charge | 119 | 1,428 | 219 | — | — |
| Research and development | 1,070 | 1,752 | 1,447 | 1,459 | 2,442 |
| Building, goodwill and intangible assets impairment | 2,965 | 2,074 | 1,425 | 23,400 | — |
| Operating (loss) income from continuing operations | (7,065) | (12,024) | (5,431) | (25,163) | 8,000 |
| Net (loss) income from continuing operations | (7,069) | (14,588) | (9,554) | (17,448) | 5,101 |
| Loss from discontinued operations | (3,914) | (2,800) | (2,826) | (277) | — |
| Net (loss) income | \$(10,983) | \$(17,388) | \$(12,380) | \$(17,725) | \$5,101 |
| Net (loss) income per common share: | | | | | |
| Basic | | | | | |
| Continuing operations | \$(0.30) | \$(0.62) | \$(0.41) | \$(0.77) | \$0.23 |
| Discontinued operations | (0.16) | (0.12) | (0.13) | (0.01) | — |
| Basic net (loss) income per common share | \$(0.46) | \$(0.74) | \$(0.54) | \$(0.78) | \$0.23 |
| Diluted | | | | | |
| Continuing operations | \$(0.30) | \$(0.62) | \$(0.41) | \$(0.77) | \$0.23 |
| Discontinued operations | (0.16) | (0.12) | (0.13) | (0.01) | — |
| Diluted net (loss) income per common share | \$(0.46) | \$(0.74) | \$(0.54) | \$(0.78) | \$0.23 |
| Weighted-average basic shares outstanding | 23,872,000 | 23,365,000 | 23,101,000 | 22,782,000 | 22,286,000 |
| Weighted-average diluted shares outstanding | 23,872,000 | 23,365,000 | 23,101,000 | 22,782,000 | 22,579,000 |

| CONSOLIDATED BALANCE SHEET DATA (in thousands of dollars) | December 31 | | | | |
|--|-------------|----------|----------|----------|----------|
| | 2017 | 2016 | 2015 | 2014 | 2013 |
| Working capital | \$18,025 | \$26,585 | \$35,865 | \$39,688 | \$48,619 |
| Total assets | 50,484 | 57,788 | 76,011 | 91,471 | 110,058 |
| Long-term obligations | 420 | 346 | 501 | 520 | 789 |
| Total liabilities | 16,143 | 14,396 | 17,037 | 19,170 | 21,435 |
| Stockholders’ equity (1) | 34,341 | 43,392 | 58,974 | 72,301 | 88,623 |

Notes:

(1) Stockholders’ equity includes the principal amount of nil coupon non-redeemable perpetual loan notes. See Note 7 to the consolidated financial statements.

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ITEM 7 - MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS (amounts in thousands of dollars)

Background

We have two broad technology segments that provide advanced engineered solutions to meet the pollution control, efficiency improvement and operational optimization needs of energy-related facilities worldwide. They are as follows:

Air Pollution Control Technologies

The Air Pollution Control technology segment includes technologies to reduce NO_x emissions in flue gas from boilers, incinerators, furnaces and other stationary combustion sources. These include Low and Ultra Low NO_x Burners (LNB and ULNB), OFA systems, NO_xOUT and HERT SNCR systems, and ASCR systems. The ASCR system includes ULNB, OFA, and SNCR components, along with a downsized SCR catalyst, AIG, and GSG systems to provide high NO_x reductions at significantly lower capital and operating costs than conventional SCR systems. The NO_xOUT CASCADE and NO_xOUT-SCR processes are basic types of ASCR systems, using just SNCR and SCR catalyst components. ULTRA technology creates ammonia at a plant site using safe urea for use with any SCR application. Our ESP products and services include complete turnkey ESP retrofits and related services. Flue Gas Conditioning systems are chemical injection systems offered in markets outside the U.S. and Canada to enhance electrostatic precipitator and fabric filter performance in controlling particulate emissions. We distribute our products through our direct sales force and third-party sales agents.

FUEL CHEM Technologies

The FUEL CHEM technology segment, which uses chemical processes in combination with advanced CFD and CKM boiler modeling, for the control of slagging, fouling, corrosion, opacity and other sulfur trioxide-related issues in furnaces and boilers through the addition of chemicals into the furnace using TIFI Targeted In-Furnace Injection technology. Fuel Tech sells its FUEL CHEM program through its direct sales force and agents to industrial and utility power-generation facilities. FUEL CHEM programs have been installed on combustion units in North America, Europe, China, and India, treating a wide variety of solid and liquid fuels, including coal, heavy oil, biomass and municipal waste. The FUEL CHEM program improves the efficiency, reliability and environmental status of plants operating in the electric utility, industrial, pulp and paper, waste-to-energy, university and district heating markets and offers numerous operational, financial and environmental benefits to owners of boilers, furnaces and other combustion units.

The key market dynamic for both technology segments is the continued use of fossil fuels, especially coal, as the principal fuel source for global electricity production. Coal currently accounts for approximately 30% of all U.S. electricity generation and roughly 69% of Chinese electricity generation. Major coal consumers include China, the United States and India.

Critical Accounting Policies and Estimates

The consolidated financial statements are prepared in accordance with accounting principles generally accepted in the United States of America, which require us to make estimates and assumptions. We believe that of our accounting policies (see Note 1 to the consolidated financial statements), the following involve a higher degree of judgment and complexity and are deemed critical. We routinely discuss our critical accounting policies with the Audit Committee of the Board of Directors.

Revenue Recognition

Revenues from the sales of chemical products are recorded when title transfers, either at the point of shipment or at the point of destination, depending on the contract with the customer. We use the percentage of completion method of accounting for equipment construction, equipment supply and license contracts that are sold within the Air Pollution Control technology segment. Under the percentage of completion method, revenues are recognized as work is performed based on the relationship between actual construction costs incurred and total estimated costs at completion. Construction costs include all direct costs such as materials, labor, and subcontracting costs, and indirect costs allocable to the particular contract such as indirect labor, tools and equipment, and supplies. Revisions in completion estimates and contract values are made in the period in which the facts giving rise to the revisions become known and can influence the timing of when revenues are recognized under the percentage of completion method of accounting. Such revisions have historically not had a material effect on the amount of revenue recognized. Provisions are made for estimated losses on uncompleted contracts in the period in which such losses are determined. As of December 31, 2017, we had four construction contracts in progress that were identified as loss contracts and a provision for losses in the amount of \$117 was recorded in other accrued liabilities on the consolidated balance sheet. As of December 31, 2016, we had two construction contract in progress that was identified as a loss contract and a provision for losses in the amount of \$41 was recorded in other accrued liabilities on the consolidated balance sheet.

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Typically, our APC contracts are eight to sixteen months in length. A typical contract will have three or four critical operational measurements that, when achieved, serve as the basis for us to invoice the customer via progress billings. At a minimum, these measurements will include the generation of engineering drawings, the shipment of equipment and the completion of a system performance test.

As part of most of our contractual APC project agreements, we contractually commit to customer-specific acceptance criteria that relate to the operational performance of the system that is being sold. These criteria are determined based on mathematical modeling that is performed by our personnel, which is in turn based on operational inputs that are provided by the customer. Our customer is solely responsible for the accuracy of the operating condition information; all performance guarantees and equipment warranties granted by us are void if the operating condition information is inaccurate or is not met.

Accounts receivable includes unbilled receivables, representing revenues recognized in excess of billings on uncompleted contracts under the percentage of completion method of accounting. At December 31, 2017 and December 31, 2016, unbilled receivables were approximately \$7,894 and \$6,755, respectively, and are included in accounts receivable on the consolidated balance sheet. Billings in excess of costs and estimated earnings on uncompleted contracts were \$2,403 and \$1,730 at December 31, 2017 and December 31, 2016, respectively, and are included in other accrued liabilities on the consolidated balance sheet.

We have installed over 1,000 units with APC technology and normally provide performance guarantees to our customers based on the operating conditions for the project. As part of the project implementation process, we perform system start-up and optimization services that effectively serve as a test of actual project performance. We believe that this test, combined with the accuracy of the modeling that is performed, enables revenue to be recognized prior to the receipt of formal customer acceptance.

Allowance for Doubtful Accounts

The allowance for doubtful accounts is management's best estimate of the amount of credit losses in accounts receivable. In order to control and monitor the credit risk associated with our customer base, we review the credit worthiness of customers on a recurring basis. Factors influencing the level of scrutiny include the level of business the customer has with us, the customer's payment history and the customer's financial stability. Receivables are considered past due if payment is not received by the date agreed upon with the customer, which is normally 30 days. Representatives of our management team review all past due accounts on a weekly basis to assess collectability. At the end of each reporting period, the allowance for doubtful accounts balance is reviewed relative to management's collectability assessment and is adjusted if deemed necessary through a corresponding charge or credit to bad debts expense, which is included in selling, general, and administrative expenses in the consolidated statements of operations. Bad debt write-offs are made when management believes it is probable a receivable will not be recovered.

Inventories

Inventories consist primarily of spare parts and are stated at the lower of cost or net realizable value using the first-in, first-out method. Usage is recorded in cost of sales in the period that parts were issued to a project or used to service equipment. Inventories are periodically evaluated to identify obsolete or otherwise impaired parts and are written off when management determines usage is not probable. On June 30, 2017, the Company established an additional excess and obsolete inventory reserve of \$228 which is included in inventory on the consolidated balance sheet. On December 31, 2016, the Company established an excess and obsolete inventory reserve of \$825 of which \$175 is included in inventories and \$650 is included in other assets on the consolidated balance sheet. The Company estimates the balance of excess and obsolete inventory by analyzing inventory by age using last used and original purchase date

and existing sales pipeline for which the inventory could be used.

Assessment of Potential Impairments of Goodwill and Intangible Assets

Goodwill is not amortized, but rather is reviewed annually (in the fourth quarter) or more frequently if indicators arise, for impairment. We do not have any indefinite-lived intangible assets other than goodwill. Such indicators include a decline in expected cash flows, a significant adverse change in legal factors or in the business climate, unanticipated competition, a decrease in our market capitalization to an amount less than the carrying value of our assets, or slower growth rates, among others.

Goodwill is allocated among and evaluated for impairment at the reporting unit level, which is defined as an operating segment or one level below an operating segment. We have two reporting units: the FUEL CHEM segment and the APC technology segment.

Our evaluation of goodwill impairment involves first assessing qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. We may bypass this qualitative assessment, or determine that based on our qualitative assessment considering the totality of events and circumstances including macroeconomic factors,

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industry and market considerations, current and projected financial performance, a sustained decrease in our share price, or other factors, that additional impairment analysis is necessary. This additional analysis involves comparing the current fair value of a reporting unit to its carrying value. Fuel Tech uses a discounted cash flow (DCF) model to determine the current fair value of its two reporting units as this methodology was deemed to best quantify the present values of our expected future cash flows and yield a fair value that should be in line with the aggregate market value placed on the outstanding number of Common Shares as reflected by the current stock price multiplied by the outstanding common shares. A number of significant assumptions and estimates are involved in the application of the DCF model to forecast operating cash flows, including markets and market share, sales volumes and prices, costs to produce and working capital changes. Events outside our control, specifically market conditions that impact revenue growth assumptions, could significantly impact the fair value calculated. Management considers historical experience and all available information at the time the fair values of its reporting units are estimated. However, actual fair values that could be realized in an actual transaction may differ from those used to evaluate the impairment of goodwill.

The application of our DCF model in estimating the fair value of each reporting segment is based on the 'net asset' approach to business valuation. In using this approach for each reportable segment, we forecast segment revenues and expenses out to perpetuity and then discount the resulting cash flows to their present value using an appropriate discount rate. The forecast considers, among other items, the current and expected business environment, expected changes in the fixed and variable cost structure as the business grows, and a revenue growth rate that we feel is both achievable and sustainable. The discount rate used is composed of a number of identifiable risk factors, including equity risk, company size, and certain company specific risk factors such as our debt-to-equity ratio, among other factors, that when added together, results in a total return that a prudent investor would demand for an investment in our company.

In the event the estimated fair value of a reporting unit per the DCF model is less than the carrying value, additional analysis would be required. The additional analysis would compare the carrying amount of the reporting unit's goodwill with the implied fair value of that goodwill. The implied fair value of goodwill is the excess of the fair value of the reporting unit over the fair values assigned to all of the assets and liabilities of that unit as if the reporting unit was acquired in a business combination and the fair value of the reporting unit represented the purchase price. If the carrying value of goodwill exceeds its implied fair value, an impairment loss equal to such excess would be recognized.

Fuel Tech performed its annual goodwill impairment analysis for each of its reporting units as of October 1, 2017 and determined that no impairment of goodwill existed within the FUEL CHEM technology segment.

Building Impairment

During the second quarter of 2017, we experienced a decrease in our stock price that caused our market capitalization to fall below the equity value on our consolidated balance sheet, which resulted in an indicator of impairment. This, along with an overall slowdown in APC technology and corresponding downward adjustments to our financial forecasts, was considered during a detailed evaluation of the fair value of our reporting units. As a result of these triggering events, Fuel Tech performed a long-lived asset impairment analysis for each of the reporting units as of April 1, 2017. Based on this evaluation, we determined that our APC segment failed the first step of our impairment analysis because the estimated gross cash flows and fair value of the reporting unit was less than its carrying value, thus requiring additional analysis of the segment. However, no impairment resulted as the fair values of the underlying patents and equipment equaled or exceeded their carrying values. We evaluated the corporate asset group, which contains our corporate headquarters office building and land in Warrenville, Illinois, using the residual method and management determined that there was not adequate gross cash flows to support the carrying value. After obtaining an appraisal from a third-party appraiser, management determined that the carrying value of the office building and land exceeded the fair value and recorded an impairment charge of \$2,965 for the year ended December 31, 2017.

Impairment of Long-Lived Assets and Amortizable Intangible Assets

Long-lived assets, including property, plant and equipment (PP&E) and intangible assets, are reviewed for impairment when events and circumstances indicate that the carrying amount of the assets (or asset group) may not be recoverable. If impairment indicators exist, we perform a more detailed analysis and an impairment loss is recognized when estimated future undiscounted cash flows expected to result from the use of the asset (or asset group) and its eventual disposition are less than the carrying amount. This process of analyzing impairment involves examining the operating condition of individual assets (or asset group) and estimating a fair value based upon current condition, relevant market factors and remaining estimated operational life compared to the asset's remaining depreciable life. Quoted market prices and other valuation techniques are used to determine expected cash flows. Due to the existence of impairment indicators as more fully described in Note 1 to our consolidated financial statements, we performed a more detailed analysis of potential long-lived and intangible asset impairment in the APC technology asset group during the fourth quarter of 2017 using the aforementioned undiscounted cash flows analysis.

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In the fourth quarter of 2016, the Company performed an impairment test of the carrying value of our intangible assets to determine whether any impairment existed. The Company determined that the sum of the expected undiscounted cash flows attributable to certain intangible assets was less than its carrying value and that an impairment write-down was required. The impairment loss primarily related to the developed technology, customer relationships and trademarks acquired in the 2014 acquisition of PECO and FGC. The Company calculated the estimated fair value of the intangible asset by summing the present value of the expected cash flows over its life. The impairment was calculated by deducting the present value of the expected cash flows from the carrying value. This assessment resulted in an impairment charge of \$2,074, which was included in “Goodwill and intangible assets impairment” line in the accompanying Consolidated Statements of Operations for the year ended December 31, 2016.

In the fourth quarter of 2015, the Company performed an impairment test of the carrying value of our intangible assets to determine whether any impairment existed. The Company determined that the sum of the expected undiscounted cash flows attributable to certain intangible assets was less than its carrying value and that an impairment write-down was required. The impairment loss primarily related to the customer lists acquired in the 2009 acquisition of Advanced Combustion Technology and the 2014 acquisition of PECO. The Company calculated the estimated fair value of the intangible asset by summing the present value of the expected cash flows over its life. The impairment was calculated by deducting the present value of the expected cash flows from the carrying value. This assessment resulted in an impairment write-down of \$1,425, which was included in “Goodwill and intangible assets impairment” line in the accompanying Consolidated Statements of Operations for the year ended December 31, 2015.

A significant portion of our property and equipment is comprised of assets deployed at customer locations relating to our FUEL CHEM technology asset group, and due to the shorter-term duration over which this equipment is depreciated, the likelihood of impairment is mitigated. The discontinuation of a FUEL CHEM program at a customer site would most likely result in the re-deployment of all or most of the affected assets to another customer location rather than an impairment.

Valuation Allowance for Deferred Income Taxes

Deferred tax assets represent deductible temporary differences and net operating loss and tax credit carryforwards. A valuation allowance is recognized if it is more likely than not that some portion of the deferred tax asset will not be realized. At the end of each reporting period, management reviews the realizability of the deferred tax assets. As part of this review, we consider if there are taxable temporary differences that could generate taxable income in the future, if there is the ability to carry back the net operating losses or credits, if there is a projection of future taxable income, and if there are any tax planning strategies that can be readily implemented.

Stock-Based Compensation

We recognize compensation expense for employee equity awards ratably over the requisite service period of the award, adjusted for estimated forfeitures.

We utilize the Black-Scholes option-pricing model to estimate the fair value of stock option awards. Determining the fair value of stock options using the Black-Scholes model requires judgment, including estimates for (1) risk-free interest rate - an estimate based on the yield of zero-coupon treasury securities with a maturity equal to the expected life of the option; (2) expected volatility - an estimate based on the historical volatility of our Common Shares for a period equal to the expected life of the option; and (3) expected life of the option - an estimate based on historical experience including the effect of employee terminations.

In addition, we utilize a Monte Carlo valuation pricing model to determine the fair value of certain restricted stock units (RSUs) that contain market conditions. Determining the fair value of these RSUs requires judgment and involves simulating potential future stock prices based on estimates for the risk-free interest rate, stock volatility, and correlations between our stock price and the stock prices of a peer group of companies. If any of these assumptions

differ significantly from actual results, stock-based compensation expense could be impacted.

Recently Adopted Accounting Standards

In March 2016, the FASB issued ASU 2016-09, Compensation - Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting. The amendments in this Update simplify the income tax effects, minimum statutory tax withholding requirements and impact of forfeitures related to how share-based payments are accounted for and presented in the financial statements. ASU 2016-09 is effective for the Company beginning on January 1, 2017. The adoption of ASU 2016-09 did not have a material effect on our earnings, cash flows, or financial position. See Note 8, Stock-Based Compensation, for further discussion.

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In July 2015, the FASB issued ASU 2015-11, Inventory (Topic 330): Simplifying the Measurement of Inventory. This new accounting guidance more clearly articulates the requirements for the measurement and disclosure of inventory. Topic 330, Inventory, currently requires an entity to measure inventory at the lower of cost or market. Market could be replacement cost, net realizable value, or net realizable value less an approximately normal profit margin. This new accounting guidance requires the measurement of inventory at lower of cost and net realizable value. The adoption of ASU 2015-11 is effective for the Company beginning on January 1, 2017 and the adoption did not have a material impact on the Company's consolidated financial statements.

Recently Issued Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board (FASB) issued ASU 2014-09 "Revenue from Contracts with Customers" (Topic 606). These changes created a comprehensive framework for all entities in all industries to apply in the determination of when to recognize revenue, and, therefore, supersede virtually all existing revenue recognition requirements and guidance. This framework is expected to result in less complex guidance in application while providing a consistent and comparable methodology for revenue recognition. The core principle of the guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. To achieve this principle, an entity should apply the following steps: (i) identify the contract(s) with a customer, (ii) identify the performance obligations in the contract(s), (iii) determine the transaction price, (iv) allocate the transaction price to the performance obligations in the contract(s), and (v) recognize revenue when, or as, the entity satisfies a performance obligation. The new standard also requires additional financial statement disclosures that will enable users to understand the nature, amount, timing and uncertainty of revenue and cash flows relating to customer contracts. In August 2015, the FASB approved a one-year deferral to January 1, 2018. The standard may be applied retrospectively to each prior period presented or retrospectively with the cumulative effect recognized as of the date of adoption. The Company has completed a detailed review of the terms and provisions of its customer contracts in light of these changes. The project team is in the process of finalizing the evaluation of these contracts under the new guidance, as well as assessing the need for any potential changes to the Company's accounting policies and internal control structure. That said, the Company recognizes revenue when title, ownership, and risk of loss pass to the customer, all of which occurs utilizing a percentage of completion (cost-to-cost input), or shipment or delivery of the product based on the applicable shipping terms. Fuel Tech's sales of its products to customers represent single performance obligations, which are not expected to be impacted by these changes. As a result, management does not expect the adoption of these changes to have a material impact on the Consolidated Financial Statements. The Company adopted the standard on January 1, 2018 using the modified retrospective method and the cumulative impact, which the Company expects will be immaterial to the Consolidated Financial Statements, will be recognized in beginning retained earnings.

In February 2016, the FASB issued ASU 2016-02, Leases (Topic 842). The amendments in this Update increase transparency and comparability among organizations by recognizing lease assets and lease liabilities on the balance sheet and disclosing key information about leasing arrangements. ASU 2016-02 will be effective for the Company beginning on January 1, 2019. The Company is in the initial stages of evaluating the impact of the new standard on the accounting policies, processes, and system requirements. While the Company continues to assess the potential impacts of the new standard and anticipate this standard could have a material impact on the consolidated financial statements, the Company does not know or cannot reasonably estimate quantitative information related to the impact of the new standard on the financial statements at this time.

In November 2016, the FASB issued ASU 2016-18, Statement of Cash Flows (Topic 230): Restricted Cash (a consensus of the FASB Emerging Issues Task Force). The amendments in this Update require that a statement of cash flows explain the change during the period in the total of cash, cash equivalents, and amounts generally described as restricted cash or restricted cash equivalents. Accordingly, restricted cash will be included with cash and cash

equivalents when reconciling the beginning-of-period and end-of-period total amounts shown on the Consolidated Statement of Cash Flows. ASU 2016-18 will be effective for the Company beginning on January 1, 2018 and will be applied using a retrospective approach. Other than this change in presentation within the Consolidated Statement of Cash Flows, ASU 2016-18 will not have an impact on the Company's consolidated financial statements.

In January 2017, the FASB issued ASU 2017-04, Intangibles-Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment. The amendments in this Update simplify how an entity is required to test goodwill for impairment by eliminating Step 2 from the goodwill impairment test. Step 2 measures a goodwill impairment loss by comparing the implied fair value of a reporting unit's goodwill with the carrying amount of that goodwill. ASU 2017-04 will be effective for the Company beginning on January 1, 2020. The Company is in the initial stages of evaluating the impact of the new standard on the accounting policies, processes, and system requirements. While the Company continues to assess the potential impacts of the new standard and anticipate this standard could have a material impact on the consolidated financial statements, the Company does not know or cannot reasonably estimate quantitative information related to the impact of the new standard on the financial statements at this time.

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2017 versus 2016

Revenues for the years ended December 31, 2017 and 2016 were \$45,166 and \$55,161, respectively. The year-over-year decrease of \$9,995, or 18%, was driven by decreased revenue in both APC and FUEL CHEM technology segments in both our United States (U.S.) and foreign operations. Our U.S. revenues decreased by \$13,035 or 31% from \$42,545 to \$29,510, and our international revenues increased by \$3,040 or 24% from \$12,616 to \$15,656.

Revenues for the APC technology segment were \$27,808 for the year ended December 31, 2017, a decrease of \$6,244, or 18%, versus fiscal 2016. First, the U.S. regulatory environment, while remaining favorable for our prospects, has not spurred capital investment in our products by electric power producers. Second, while general economic conditions in the U.S. have improved, energy demand for coal fired power plants has declined as utilities have switched to lower cost natural gas sources. At the same time, these sources have generally allowed utilities to meet their regulatory objectives with existing emissions investments. Sales in foreign locations have not been robust enough to offset reduced demand in the U.S. While we expect to see improved order flow in our U.S. APC segment in 2018, any future orders will be dependent on our customers' capital investment decisions to install emissions control technologies in order to meet state or federal regulations. We continue to actively bid projects in our foreign markets during 2018 and will continue to look for growth opportunities within our chosen markets. Backlog for the years ended December 31, 2017 and 2016 was \$22.1 million and \$8.0 million, respectively.

Revenues for the FUEL CHEM technology segment for the year ended December 31, 2017 were \$17,358, a decrease of \$3,751, or 18% versus fiscal 2016. This decrease is principally associated with reduced product demand from some of our largest Fuel Chem customers. These customers' decision to reduce spending was based on a number of factors including cost of coal fire powered generation, energy demand and overall economic conditions affecting the plant. We remain focused on attracting new customers in our FUEL CHEM business, for both coal and non-coal applications, but our ability to attract new coal customers continues to be affected by the soft electric demand market and fuel switching as a result of low natural gas prices.

Consolidated cost of sales for the years ended December 31, 2017 and 2016 were \$27,144 and \$36,367, respectively. Consolidated gross margin percentages for the years ended December 31, 2017 and 2016 were 40% and 34%, respectively. The gross margins for the APC technology segment increased to 34% in 2017 from 25% in 2016. Gross margin for the APC technology segment in 2016 included charges totaling \$0.8 million consisting of a subcontractor dispute of \$0.6 million and a non-cash excess and obsolete inventory reserve of \$0.2 million; exclusive of these charges, gross margin would have been \$9.5 million, or 28%. The overall increase in gross margin in the APC technology segment from 2016 to 2017 is due to product and technology mix. Gross margin percentage for the FUEL CHEM technology segment increased slightly in 2017 to 50% from 48% in 2016. Gross margin for the FUEL CHEM technology segment in 2016 included the impact of the above-referenced non-cash excess and obsolete inventory reserve of \$0.6 million; excluding this impact, gross margin would have been \$10.7 million or 51%.

During the second quarter of 2017, we experienced a decrease in our stock price that caused our market capitalization to fall below the equity value on our consolidated balance sheet, which resulted in an indicator of impairment. This, along with an overall slowdown in APC technology and corresponding downward adjustments to our financial forecasts, was considered during a detailed evaluation of the fair value of our reporting units. As a result of these triggering events, Fuel Tech performed a long-lived asset impairment analysis for each of the reporting units as of April 1, 2017. We evaluated the corporate asset group, which contains our corporate headquarters office building and land in Warrenville, Illinois, using the residual method and management determined that there was not adequate gross cash flows to support the carrying value. After obtaining an appraisal from a third-party appraiser, management determined that the carrying value of the office building and land exceeded the fair value and recorded an impairment charge of \$2,965 for the year ended December 31, 2017.

Selling, general and administrative (SG&A) expenses for the years ended December 31, 2017 and 2016 were \$20,933 and \$25,564, respectively. The decrease of \$4,631 or 18%, is primarily attributed to the following:

- A decrease in employee related costs, totaling \$2,060, including an overall reduction in travel and entertainment costs of \$437
- A decrease in stock compensation expense of \$602
- A decrease in depreciation and amortization of \$436
- A decrease in professional fees and consulting services of \$452
 - A decrease in office and administrative costs relating to our foreign subsidiaries of \$377
- A decrease in other administrative costs of \$730

Restructuring costs were \$119 and \$1,428 in connection with the workforce reduction for the years ended December 31, 2017 and 2016. See Note 15, Restructuring Activities, for further discussion.

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Research and development (“R&D”) expenses were \$1,070 and \$1,752 for the years ended December 31, 2017 and 2016, respectively. The decrease in research and development expenses for the year ended December 31, 2017 in comparison to the same period prior year amounts was related to organizational workforce actions taken in both 2017 and 2016. The remaining expenditures in our research and development expenses were focused on new product development for our APC and Fuel Chem businesses. We plan to continue focusing on increased research and development efforts in the pursuit of commercial applications for technologies outside of our traditional markets, and in the development and analysis of new technologies that could represent incremental market opportunities.

Interest income for the year ended December 31, 2017 decreased by \$15 to \$10 versus \$25 in 2016. Interest expense was \$0 in both 2017 and 2016. Finally, the decrease in net other expenses to \$28 from \$925 in the prior year is due primarily to the impact of foreign exchange rates as it relates to settlement of balances denominated in foreign currencies, and certain other bank fees related to Letter of Credits.

For the year ended December 31, 2017, we recorded an income tax benefit of \$46 on pre-tax loss of \$7,115. Our effective tax rates were 0.4% and 12.9% for the years ended December 31, 2017 and 2016, respectively. The effective tax rate for the year-ended December 31, 2017 differed from the federal statutory rate of 34% as a result of net operating losses generated in the United States, China, and Italy, which were offset by establishment of full valuation allowances. For the year ended December 31, 2016, we recorded an income tax expense of \$1,664 on pre-tax loss of \$12,924. Our income tax expense of 1,664 in 2016 resulted from the establishment of a full valuation allowance for the China deferred tax assets.

On December 22, 2017, the United States (“U.S.”) enacted significant changes to the U.S. tax law following the passage and signing of H.R.1, “An Act to Provide for Reconciliation Pursuant to Titles II and V of the Concurrent Resolution on the Budget for Fiscal Year 2018” (the “Tax Act”) (previously known as “The Tax Cuts and Jobs Act”). Information regarding the impact on the Company is included in Note 4. Income Taxes to the consolidated financial statements included herein.

2016 versus 2015

Revenues for the years ended December 31, 2016 and 2015 were \$55,161 and \$73,664, respectively. The year-over-year decrease of \$18,503, or 25%, was driven by decreased revenue in both APC and FUEL CHEM technology segments in both our United States (U.S.) and foreign operations. Our U.S. revenues decreased by \$8,940 or 17% from \$51,485 to \$42,545, and our international revenues declined by \$9,563 or 43% from \$22,179 to \$12,616.

Revenues for the APC technology segment were \$34,052 for the year ended December 31, 2016, a decrease of \$9,433, or 22%, versus fiscal 2015. Revenues in our APC technology segment, which had been growing into 2013 largely through international sales, were adversely affected by a number of factors in 2016. First, the U.S. regulatory environment, while remaining favorable for our prospects, has not spurred capital investment in our products by electric power producers. Second, while general economic conditions in the U.S. have improved, energy demand for coal fired power plants has declined as utilities have switched to lower cost natural gas sources. At the same time, these sources have generally allowed utilities to meet their regulatory objectives with existing emissions investments. Sales in foreign locations have not been robust enough to offset reduced demand in the U.S. While we expect to see improved order flow in our U.S. APC segment in 2017, any future orders will be dependent on our customers' capital investment decisions to install emissions control technologies in order to meet state or federal regulations. We continue to actively bid projects in our foreign markets during 2017 and will continue to look for growth opportunities within our chosen markets. Backlog for the years ended December 31, 2016 and 2015 was \$8.0 million and \$22.2 million, respectively.

Revenues for the FUEL CHEM technology segment for the year ended December 31, 2016 were \$21,109, a decrease of \$9,070, or 30% versus fiscal 2015. This decrease is principally associated with reduced product demand from some of our largest Fuel Chem customers. These customers' decision to reduce spending was based on a number of factors including cost of coal fire powered generation, energy demand and overall economic conditions affecting the plant. We remain focused on attracting new customers in our FUEL CHEM business, for both coal and non-coal applications, but our ability to attract new coal customers continues to be affected by the soft electric demand market and fuel switching as a result of low natural gas prices.

Consolidated cost of sales for the years ended December 31, 2016 and 2015 were \$36,367 and \$45,107, respectively. Consolidated gross margin percentage for the years ended December 31, 2016 and 2015 were 34% and 39%, respectively. The gross margins for the APC technology segment decreased to 25% in 2016 from 30% in 2015. Gross margin for the APC technology segment included charges totaling \$0.8 million consisting of a subcontractor dispute of \$0.6 million and a non-cash excess and obsolete inventory reserve of \$0.2 million; exclusive of these charges, gross margin would have been \$9.5 million, or 28%. Gross margin percentage for the FUEL CHEM technology segment decreased slightly in 2016 to 48% from 52% in 2015. Gross margin for the FUEL CHEM technology segment included the impact of the above-referenced non-cash excess and obsolete inventory reserve of \$0.6 million; excluding this impact, gross margin would have been \$10.7 million or 51%.

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During 2016 we recognized an impairment charge of \$2.1 million for finite-lived APC segment intangible assets. All of the impairment charge recognized in 2016 related to the acquisition of PECO and FGC which was completed on April 30, 2014.

Selling, general and administrative (SG&A) expenses for the years ended December 31, 2016 and 2015 were \$25,564 and \$31,116, respectively. The decrease of \$5,333 or 17%, is primarily attributed to the following:

- ▲ decrease in employee related costs, totaling \$3,506
- ▲ An increase in stock compensation expense of \$208
- ▲ decrease in depreciation and amortization of \$194
- ▲ decrease in professional fees and consulting services of \$917
 - A decrease in office and administrative costs relating to our foreign subsidiaries of \$140
- ▲ decrease in other administrative costs of \$784

Restructuring costs were \$1,428 and \$219 in connection with the workforce reduction for the years ended December 31, 2016 and 2015. See Note 15, Restructuring Activities, for further discussion.

Research and development (“R&D”) expenses were \$1,752 and \$1,447 for the years ended December 31, 2016 and 2015, respectively. We plan to continue focusing on increased R&D efforts in the pursuit of commercial applications for our technologies outside of our traditional markets, and in the development and analysis of new technologies that could represent incremental market opportunities.

Interest income for the year ended December 31, 2016 increased by \$4 to \$25 versus \$21 in 2015. Interest expense of \$0 was recorded in 2016, compared to \$27 in the prior year. Finally, the increase in net other expenses to \$925 from \$360 in the prior year is due primarily to the impact of foreign exchange rates as it relates to settlement of balances denominated in foreign currencies, and certain other bank fees related to Letter of Credits.

For the year ended December 31, 2016, we recorded an income tax expense of \$1,664 on pre-tax loss of \$12,924. Our effective tax rates were 12.9% and 43.6% for the years ended December 31, 2016 and 2015, respectively. The effective tax rate for the year-ended December 31, 2016 differed from the federal statutory rate of 34% as a result of establishing a full valuation allowance on our China deferred tax assets and net operating losses generated in the United States, which were offset by establishment of full valuation allowance. For the year ended December 31, 2015, we recorded an income tax expense of \$3,757 on pre-tax loss of \$8,623. Our income tax expense of \$3,757 in 2015 resulted from the establishment of a full valuation allowance for the United States deferred tax assets and income from our Italian subsidiary for which we reversed a portion of our deferred income tax valuation allowances as a result of the entity’s previously recorded net operating losses.

Liquidity and Sources of Capital

At December 31, 2017, we had cash and cash equivalents of \$8,366 (excluding restricted cash of \$6,020) and working capital of \$18,025 versus cash and cash equivalents of \$11,826 (excluding restricted cash of \$6,020) and working capital of \$26,585 at December 31, 2016.

Operating activities used \$3,568 of cash for the year ended December 31, 2017, primarily due to the add back of non-cash items from our net loss from continuing operations of \$7,069 including stock compensation expense of \$1,389, depreciation and amortization of 1,503, building impairment charge of \$2,965, excess and obsolete inventory reserve of \$228, and a loss on sale of equipment of \$304, as well as a decrease in our accounts receivable balance of

\$113, an increase in our inventory balance of \$134, and an increase in prepaid expenses and other current and non-current assets of \$1,084, and an decrease in our accrued liabilities and other non-current liabilities of \$2,439. Partially offsetting these items was subtraction from our net loss related to an increase in our accounts payable balance of \$2,500. Cash used by operating activities also included cash used of \$1,868 associated with the activity of the Fuel Conversion discontinued operations.

Operating activities used \$2,738 of cash for the year ended December 31, 2016, primarily due to the add back of non-cash items from our net loss of \$17,388 including stock compensation expense of \$1,991, depreciation and amortization of 3,500, a decrease in deferred income taxes of \$1,196, intangibles assets impairment charge of \$2,074, excess and obsolete inventory reserve of \$825, a reduction in bad debt expense of \$111, and a loss on sale of equipment of \$60, as well as a decrease in our accounts receivable balance of \$3,522, a decrease in inventory of \$446, and a decrease in prepaid expenses and other current and non-current assets of \$2,893, and an increase in our accrued liabilities and other non-current liabilities of \$699. Partially offsetting these items was subtraction of a non-cash item from our net loss related to a decrease in our accounts payable balance of \$2,445.

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Investing activities used cash of \$490 and \$938 for the years ended December 31, 2017 and 2016, respectively. Investment activities for the year ended December 31, 2017 consisted of purchases of equipment, patents, and other intangibles of \$492 and proceeds from sale of equipment of \$2. Investment activities for the year ended December 31, 2016 consisted of purchases of equipment, patents, and other intangibles of \$940 and proceeds from sale of equipment of \$2.

Financing activities used \$258 of cash for the year ended December 31, 2017 as a result of \$258 in cash used for the acquisition of common shares held in treasury that were withheld for taxes due by employees upon lapsing of restricted stock units. Financing activities used \$6,192 of cash for the year ended December 31, 2016 as a result of \$6,020 increase in restricted cash, and \$172 in cash used for the acquisition of common shares held in treasury that were withheld for taxes due by employees upon lapsing of restricted stock units.

On June 30, 2015, Fuel Tech amended its existing revolving credit facility (the Facility) with JPMorgan Chase Bank, N.A. (JPM Chase) to extend the maturity date through June 30, 2017. The total availability under the facility was \$15,000 and contained a provision to increase the facility up to a total principal amount of \$25,000 upon approval from JPM Chase. The Facility was unsecured, bears interest at a rate of LIBOR plus 300 basis points, and has the Company's Italian subsidiary, Fuel Tech S.r.l., as a guarantor. Fuel Tech can use this Facility for cash advances and standby letters of credit. As of December 31, 2016 and December 31, 2015, there were no outstanding borrowings on the credit facility.

The Facility contained several debt covenants with which the Company must comply on a quarterly or annual basis. The Facility required a minimum trailing-twelve month EBITDA of \$500 for the quarters ending March 31, 2016 and June 30, 2016; Beginning with the fiscal quarter ended September 30, 2016, the Facility required a minimum EBITDA for the trailing twelve-month period then ended of not less than \$1,000. EBITDA includes after tax earnings with add backs for interest expense, income taxes, depreciation and amortization, stock-based compensation expense, and other non-cash items. This covenant was waived by our bank through the period ending December 31, 2015. In addition, the Facility required a minimum working capital requirement of \$35,000, starting as of December 31, 2015. Finally, the Facility had an annual capital expenditure limit of \$5,000.

On May 9, 2016, the Company amended its existing U.S. Domestic credit facility with JPM Chase such that the financial covenants as set forth in the credit agreement would not be measured for the period ending as of March 31, 2016, and were removed in their entirety from the Facility. The credit availability under the Facility has been reduced from \$15,000 to \$7,000 with this amendment, and further, JPM Chase's then current Revolving Commitment under the Facility is now secured by cash held by the Company in a separate restricted use designated JPM Chase deposit account. The amount of credit available to the Company under the Facility was \$7,000 from the date of the effective date of the amended facility through May 31, 2016, at which time the credit available to the Company under the Facility was reduced to \$6,000 from June 1, 2016 through July 31, 2016, at which time the credit available to the Company under the Facility was reduced to \$5,000 and will remain as such until the Maturity Date of the Facility on June 30, 2017.

On June 16, 2017, the Company amended its existing U.S. Domestic credit facility with JPM Chase to extend the maturity date to June 28, 2019. There are no financial covenants set forth in this amendment to the Facility. The credit availability under the Facility remains at \$5,000 with this amendment, and further, JPM Chase's current Revolving Commitment under the Facility remains secured by cash held by the Company in a separate restricted use designated JPM Chase deposit account. The amount of credit available to the Company under the Facility is \$5,000 and will remain as such until the Maturity Date of the Facility on June 28, 2019. The Company intends to renew the U.S. Domestic credit facility at its maturity. During the entire period of the Facility the Company must maintain sufficient cash balances in a segregated deposit account equal to the amount of the Facility and has fully pledged such cash as collateral to the bank to support the credit available to the Company under the Facility. As of December 31, 2017 and

2016, there were no outstanding borrowings on the credit facility.

On January 10, 2018, the Company amended its existing U.S. Domestic credit facility with JPM Chase to increase the credit available under the Facility by \$500 to \$5,500 from the effective date of the amendment to August 31, 2018. After August 31, 2018, the amount of credit available under the facility will be reduced to \$5,000 through the maturity date of June 28, 2019. There were no other modifications to the terms of the Facility from the amendment of the facility on June 16, 2017.

At December 31, 2017 and 2016, we had outstanding standby letters of credit and bank guarantees totaling approximately \$3,004 and \$3,292, respectively, on our domestic credit facility in connection with contracts in process. We are committed to reimbursing the issuing bank for any payments made by the bank under these instruments. At December 31, 2017 and 2016, there were no cash borrowings under the domestic revolving credit facility and approximately \$1,996 and \$1,708, respectively, was available for future borrowings. We pay a commitment fee of 0.25% per year on the unused portion of the revolving credit facility.

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On June 16, 2017, Beijing Fuel Tech Environmental Technologies Company, Ltd. (Beijing Fuel Tech), a wholly-owned subsidiary of Fuel Tech, entered into a new revolving credit facility (the China Facility) agreement with JPM Chase for RMB 6.5 million (approximately \$999), which expires on June 29, 2018. The current facility for Beijing Fuel Tech is also secured by cash held by the Company of \$1,020 in a separate restricted use designated JPM Chase deposit account. The Company intends to renew the China Facility at its maturity. This new credit facility replaced the previous RMB 6.5 million facility that expired on June 23, 2017. The facility is unsecured, bears interest at a rate of 125% of the People's Bank of China (PBOC) Base Rate, and is guaranteed by Fuel Tech. Beijing Fuel Tech can use this facility for cash advances and bank guarantees. As of December 31, 2017 and 2016, Beijing Fuel Tech had no cash borrowings under the China Facility.

At December 31, 2017 and 2016, we had outstanding standby letters of credit and bank guarantees totaling approximately \$246 and \$22, respectively, on its Beijing Fuel Tech revolving credit facility in connection with contracts in process. At December 31, 2017 and 2016, approximately \$753 and \$914 was available for future borrowings.

In the event of default on either the domestic facility or the China facility, the cross default feature in each allows the lending bank to accelerate the payments of any amounts outstanding and may, under certain circumstances, allow the bank to cancel the facility. If we were unable to obtain a waiver for a breach of covenant and the bank accelerated the payment of any outstanding amounts, such acceleration may cause our cash position to deteriorate or, if cash on hand were insufficient to satisfy the payment due, may require us to obtain alternate financing to satisfy the accelerated payment.

We continue to monitor our liquidity needs and in response to our continued losses have taken measures to reduce expenses and restructure operations which we feel are necessary to ensure we maintain sufficient working capital and liquidity to operate the business and invest in our future.

For the year ended December 31, 2017, we have sustained losses before discontinued operations totaling \$7,069. Our cash used in continuing operations for this same period totaled \$1,700. We have taken measures to reduce our expense infrastructure, and over the past three years have eliminated approximately \$19 million in aggregate expense through headcount and other operating expense cutbacks.

Our cash balance as of December 31, 2017 totaled \$14.4 million (inclusive of our restricted cash balance), and our working capital totaled \$18.0 million. We do not have any outstanding debt obligations other than our letters of credit, and our current credit agreement does not have any financial covenants as we have moved to a cash collateralized line of credit with our lender.

We have evaluated our ongoing business needs, and considered the cash requirements of our base business of Air Pollution Control and Fuel Chem businesses. This evaluation included consideration of the following: a) customer and revenue trends in our APC and Fuel Chem business segments, b) current operating structure and expenditure levels, c) contingent payouts as described in the notes to our financial statements, and d) support for our research and development initiatives.

We currently have a \$5 million domestic U.S. credit facility which we use to issue letters of credit to our customers, which is a fully cash collateralized line of credit requiring us to deposit funds in a restricted cash account to support that credit line. We expect to continue operating under this arrangement for the foreseeable future. Our liquidity may be adversely affected to the extent we are required to collateralize further letters of credit by additional cash deposits.

Based on this analysis, management believes that currently we have sufficient cash and working capital to operate our base APC and Fuel Chem businesses.

Contractual Obligations and Commitments

In our normal course of business, we enter into agreements obligating us to make future payments. The contractual cash obligations noted below are primarily related to supporting the ongoing operations of the business.

Payments due by period in thousands of dollars

| Contractual Cash Obligations | Total | 2018 | 2019-2020 | 2021-2022 | Thereafter |
|------------------------------|---------|-------|-----------|-----------|------------|
| Operating lease obligations | \$1,664 | \$749 | \$ 713 | \$ 202 | \$ — |
| Total | \$1,664 | \$749 | \$ 713 | \$ 202 | \$ — |

Interest payments in the amount of \$0, \$0, and \$27 were made during the years ended December 31, 2017, 2016 and 2015, respectively.

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In the normal course of our business, we use bank performance guarantees and letters of credit in support of construction contracts with customers as follows:

- in support of the warranty period defined in the contract; or
- in support of the system performance criteria that are defined in the contract.

In addition, we use bank performance guarantees with standby letters of credit and performance surety bonds as security for contract performance and other obligations as needed in the normal course of business. As of December 31, 2017, we had outstanding bank performance obligations that may or may not result in cash obligations as follows:

Commitment expiration by period in thousands of dollars

| Commercial Commitments | Total | 2018 | 2019 | 2020 | Thereafter |
|---|---------|---------|-------|-------|------------|
| Standby letters of credit and bank guarantees | \$3,250 | \$2,970 | \$216 | \$ 64 | \$ — |
| Total | \$3,250 | \$2,970 | \$216 | \$ 64 | \$ — |

Off-Balance-Sheet Transactions

There were no other off-balance-sheet transactions other than the obligations and commitments listed above during the three-year period ended December 31, 2017.

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ITEM 7A - QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Our earnings and cash flow are subject to fluctuations due to changes in foreign currency exchange rates. We do not enter into foreign currency forward contracts or into foreign currency option contracts to manage this risk due to the nature of the transactions involved.

We are also exposed to changes in interest rates primarily due to our debt arrangement (refer to Note 10 to the consolidated financial statements). A hypothetical 100 basis point adverse move in interest rates along the entire interest rate yield curve would not have a materially adverse effect on interest expense during the upcoming year ended December 31, 2017.

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ITEM 8 - FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholders of Fuel Tech, Inc.

Opinion on the Financial Statements

We have audited the accompanying consolidated balance sheets of Fuel Tech, Inc. (the Company) as of December 31, 2017 and 2016, the related consolidated statements of operations, comprehensive (loss) income, stockholders' equity and cash flows for each of the three years in the period ended December 31, 2017, and the related notes to the consolidated financial statements (collectively, the financial statements). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2017 and 2016, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2017, in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audits we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audits included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audits provide a reasonable basis for our opinion.

/s/ RSM US LLP

We have served as the Company's auditor since 2010.

Chicago, Illinois
March 12, 2018

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Fuel Tech, Inc.

Consolidated Balance Sheets

(in thousands of dollars, except share and per-share data)

| | December 31, | |
|--|--------------|----------|
| | 2017 | 2016 |
| ASSETS | | |
| Current assets: | | |
| Cash and cash equivalents | \$8,366 | \$11,826 |
| Restricted cash | 1,020 | 6,020 |
| Marketable securities | 6 | 9 |
| Accounts receivable, net | 19,690 | 18,790 |
| Inventories, net | 945 | 1,012 |
| Prepaid expenses and other current assets | 3,592 | 2,891 |
| Income taxes receivable | 129 | 87 |
| Total current assets | 33,748 | 40,635 |
| Property and equipment, net | 6,272 | 10,517 |
| Goodwill | 2,116 | 2,116 |
| Other intangible assets, net | 1,671 | 1,796 |
| Restricted cash | 5,000 | — |
| Assets held for sale | 485 | 2,058 |
| Other assets | 1,192 | 666 |
| Total assets | \$50,484 | \$57,788 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | |
| Current liabilities: | | |
| Accounts payable | \$9,065 | \$6,303 |
| Accrued liabilities: | | |
| Employee compensation | 1,487 | 1,390 |
| Income taxes payable | 73 | — |
| Other accrued liabilities | 5,098 | 6,357 |
| Total current liabilities | 15,723 | 14,050 |
| Other liabilities | 420 | 346 |
| Total liabilities | 16,143 | 14,396 |
| COMMITMENTS AND CONTINGENCIES (Note 9) | | |
| Stockholders' equity: | | |
| Common stock, \$.01 par value, 40,000,000 shares authorized, 24,777,001 and 23,800,924 shares issued, and 24,132,910 and 23,446,035 outstanding in 2017 and 2016, respectively | 248 | 238 |
| Additional paid-in capital | 138,760 | 137,380 |
| Accumulated deficit | (102,503) | (91,520) |
| Accumulated other comprehensive loss | (768) | (1,568) |
| Nil coupon perpetual loan notes | 76 | 76 |
| Treasury stock, 644,091 and 354,889 shares in 2017 and 2016, respectively, at cost | (1,472) | (1,214) |
| Total stockholders' equity | 34,341 | 43,392 |
| Total liabilities and stockholders' equity | \$50,484 | \$57,788 |

See notes to consolidated financial statements.

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Fuel Tech, Inc.

Consolidated Statements of Operations

(in thousands of dollars, except share and per-share data)

| | For the years ended December 31, | | |
|---|----------------------------------|------------|------------|
| | 2017 | 2016 | 2015 |
| Revenues | \$45,166 | \$ 55,161 | \$ 73,664 |
| Costs and expenses: | | | |
| Cost of sales | 27,144 | 36,367 | 45,107 |
| Selling, general and administrative | 20,933 | 25,564 | 30,897 |
| Restructuring charge | 119 | 1,428 | 219 |
| Research and development | 1,070 | 1,752 | 1,447 |
| Building and intangible assets impairment | 2,965 | 2,074 | 1,425 |
| Total Costs and Expenses | 52,231 | 67,185 | 79,095 |
| Operating loss from continuing operations | (7,065) | (12,024) | (5,431) |
| Interest expense | — | — | (27) |
| Interest income | 10 | 25 | 21 |
| Other expense | (60) | (925) | (360) |
| Loss from continuing operations before income taxes | (7,115) | (12,924) | (5,797) |
| Income tax benefit (expense) | 46 | (1,664) | (3,757) |
| Net loss from continuing operations | (7,069) | (14,588) | (9,554) |
| Loss from discontinued operations (net of income tax benefit of \$0 in 2017, 2016 and 2015) | (3,914) | (2,800) | (2,826) |
| Net loss | \$(10,983) | \$(17,388) | \$(12,380) |
| Net loss per common share: | | | |
| Basic | | | |
| Continuing operations | \$(0.30) | \$(0.62) | \$(0.42) |
| Discontinued operations | (0.16) | (0.12) | (0.12) |
| Basic net loss per common share | (0.46) | (0.74) | (0.54) |
| Diluted | | | |
| Continuing operations | (0.30) | (0.62) | \$(0.42) |
| Discontinued operations | (0.16) | (0.12) | (0.12) |
| Diluted net loss per common share | (0.46) | (0.74) | (0.54) |
| Weighted-average number of common shares outstanding: | | | |
| Basic | 23,872,000 | 23,365,000 | 23,101,000 |
| Diluted | 23,872,000 | 23,365,000 | 23,101,000 |

See notes to consolidated financial statements.

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Fuel Tech, Inc.

Consolidated Statements of Comprehensive (Loss) Income
(in thousands of dollars)

| | For the years ended December 31, | | |
|--|----------------------------------|-------------|-------------|
| | 2017 | 2016 | 2015 |
| Net (loss) | \$(10,983) | \$(17,388) | \$(12,380) |
| Other comprehensive (loss): | | | |
| Foreign currency translation adjustments | 802 | (6) | (1,097) |
| Unrealized (losses)/gains from marketable securities, net of tax | (2) | (6) | (11) |
| Total other comprehensive income (loss) | 800 | (12) | (1,108) |
| Comprehensive (loss) | \$(10,183) | \$(17,400) | \$(13,488) |

See notes to consolidated financial statements.

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Fuel Tech, Inc.

Consolidated Statements of Stockholders' Equity

(in thousands of dollars or shares, as appropriate)

| | Common Stock | | | Accumulated Deficit | Accumulated Other Comprehensive Income (Loss) | Nil Coupon Perpetual Loan Notes | Treasury Stock | Total |
|---|--------------|--------|----------------------------------|------------------------|---|--|-------------------|-----------|
| | Shares | Amount | Additional Paid-in Capital | | | | | |
| Balance at December 31, 2014 | 22,860 | \$ 230 | \$ 134,985 | \$ (61,752) | \$ (448) | \$ 76 | \$(790) | \$72,301 |
| Net loss | | | | (12,380) | | | | (12,380) |
| Foreign currency translation adjustments | | | | | (1,097) | | | (1,097) |
| Unrealized loss on marketable securities, net of tax | | | | | (11) | | | (11) |
| Stock compensation expense | | | 1,809 | | | | | 1,809 |
| Issuance of Deferred Director's shares | 39 | 1 | (71) | | | | | (70) |
| Tax effect of expired vested options | | | (908) | | | | | (908) |
| Common shares issued upon vesting of restricted stock units | 352 | 3 | (421) | | | | | (418) |
| Treasury shares withheld | (84) | | | | | | (252) | (252) |
| Balance at December 31, 2015 | 23,167 | \$ 234 | \$ 135,394 | \$ (74,132) | \$ (1,556) | \$ 76 | \$(1,042) | \$58,974 |
| Net loss | | | | (17,388) | | | | (17,388) |
| Foreign currency translation adjustments | | | | | (6) | | | (6) |
| Unrealized loss on marketable securities, net of tax | | | | | (6) | | | (6) |
| Stock compensation expense | | | 1,991 | | | | | 1,991 |
| Common shares issued upon vesting of restricted stock units | 382 | 4 | (5) | | | | | (1) |
| Treasury shares withheld | (103) | | | | | | (172) | (172) |
| Balance at December 31, 2016 | 23,446 | \$ 238 | \$ 137,380 | \$ (91,520) | \$ (1,568) | \$ 76 | \$(1,214) | \$43,392 |
| Net loss | | | | (10,983) | | | | (10,983) |
| Foreign currency translation adjustments | | | | | 802 | | | 802 |
| Unrealized loss on marketable securities, net of tax | | | | | (2) | | | (2) |
| Stock compensation expense | | | 1,389 | | | | | 1,389 |
| Common shares issued upon vesting of restricted stock units | 976 | 10 | (9) | | | | | 1 |
| Treasury shares withheld | (289) | | | | | | (258) | (258) |
| Balance at December 31, 2017 | 24,133 | \$ 248 | \$ 138,760 | \$ (102,503) | \$ (768) | \$ 76 | \$(1,472) | \$34,341 |

See notes to consolidated financial statements.

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Fuel Tech, Inc.

Consolidated Statements of Cash Flows

(in thousands of dollars)

| | For the years ended | | |
|---|---------------------|------------|------------|
| | December 31, | | |
| | 2017 | 2016 | 2015 |
| OPERATING ACTIVITIES | | | |
| Net loss | \$(10,983) | \$(17,388) | \$(12,380) |
| Loss from discontinued operations | 3,914 | 2,800 | 2,826 |
| Net loss from continuing operations | (7,069) | (14,588) | (9,554) |
| Adjustments to reconcile net loss to net cash used in (provided by) operating activities: | | | |
| Depreciation | 1,312 | 1,780 | 2,067 |
| Amortization | 215 | 1,118 | 1,536 |
| Loss (gain) on disposal of equipment | 304 | 60 | (26) |
| Provision for doubtful accounts, net | — | (111) | — |
| Deferred income taxes | — | 1,196 | 4,916 |
| Stock compensation expense, net of forfeitures | 1,389 | 1,991 | 1,809 |
| Building and intangible assets impairment | 2,965 | 2,074 | 1,425 |
| Excess and obsolete inventory provision | 228 | 825 | — |
| Changes in operating assets and liabilities, net of acquisitions: | | | |
| Accounts receivable | 113 | 3,522 | 7,880 |
| Inventories | (134) | 446 | (560) |
| Prepaid expenses, other current assets and other noncurrent assets | (1,084) | 2,893 | (1,245) |
| Accounts payable | 2,500 | (2,445) | 1,817 |
| Accrued liabilities and other noncurrent liabilities | (2,439) | 699 | (913) |
| Net cash (used in) provided by operating activities - continuing operations | (1,700) | (540) | 9,152 |
| Net cash used in operating activities - discontinued operations | (1,868) | (2,198) | (2,224) |
| Net cash (used in) provided by operating activities | (3,568) | (2,738) | 6,928 |
| INVESTING ACTIVITIES | | | |
| Purchases of property, equipment and patents | (492) | (940) | (802) |
| Proceeds from the sale of equipment | 2 | 2 | 26 |
| Net cash used in investing activities | (490) | (938) | (776) |
| FINANCING ACTIVITIES | | | |
| Payments on short-term borrowings | — | — | (1,623) |
| Change in restricted cash | — | (6,020) | — |
| Treasury shares withheld | (258) | (172) | (252) |
| Net cash used in financing activities | (258) | (6,192) | (1,875) |
| Effect of exchange rate fluctuations on cash | 856 | 10 | (1,230) |
| Net (decrease) increase in cash and cash equivalents | (3,460) | (9,858) | 3,047 |
| Cash and cash equivalents at beginning of year | 11,826 | 21,684 | 18,637 |
| Cash and cash equivalents at end of year | \$8,366 | \$11,826 | \$21,684 |
| Supplemental Cash Flow Information: | | | |
| Cash paid for: | | | |
| Interest | \$— | \$— | \$27 |

| | | | |
|-------------------|------|-------|-----|
| Income taxes paid | \$31 | \$368 | \$— |
|-------------------|------|-------|-----|

See notes to consolidated financial statements.

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Notes to Consolidated Financial Statements
(in thousands of dollars, except share and per-share data)

1. ORGANIZATION AND SIGNIFICANT ACCOUNTING POLICIES

Organization

Fuel Tech, Inc. and subsidiaries ("Fuel Tech", the "Company", "we", "us" or "our") provides advanced engineered solutions for the optimization of combustion systems in utility and industrial applications. Our primary focus is on the worldwide marketing and sale of NOx reduction technologies as well as our FUEL CHEM program. The Company's NOx reduction technologies reduce nitrogen oxide emissions from boilers, furnaces and other stationary combustion sources.

Our FUEL CHEM program is based on proprietary TIFI® Targeted In-Furnace™ Injection technology, in combination with advanced Computational Fluid Dynamics (CFD) and Chemical Kinetics Modeling (CKM) boiler modeling, in the unique application of specialty chemicals to improve the efficiency, reliability and environmental status of combustion units by controlling slagging, fouling, corrosion, opacity and other sulfur trioxide-related issues in the boiler.

Our business is materially dependent on the continued existence and enforcement of air quality regulations, particularly in the United States. We have expended significant resources in the research and development of new technologies in building our proprietary portfolio of air pollution control, fuel and boiler treatment chemicals, computer modeling and advanced visualization technologies.

International revenues were \$15,656, \$12,616, and \$22,179 for the years ended December 31, 2017, 2016 and 2015, respectively. These amounts represented 35%, 23%, and 30% of Fuel Tech's total revenues for the respective periods of time. Foreign currency changes did not have a material impact on the calculation of these percentages. We have foreign offices in Beijing, China and Gallarate, Italy.

Basis of Presentation

The consolidated financial statements include the accounts of Fuel Tech and its wholly-owned subsidiaries. All intercompany transactions have been eliminated.

Reclassifications

Certain reclassifications to prior year amounts have been made in the consolidated financial statements to conform to the current period presentation. In the second quarter of 2017, the Company suspended all operations associated with the Fuel Conversion business segment. All amounts for the periods presented in the Consolidated Balance Sheets have been reclassified to Assets Held for Sale and all amounts in the Consolidated Statements of Operations have been reclassified to Discontinued Operations; Refer to footnote 2 for further detail.

Use of Estimates

The preparation of the financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the amounts reported in the financial statements and accompanying notes. The Company uses estimates in accounting for, among other items, revenue recognition, allowance for doubtful accounts, income tax provisions, excess and obsolete inventory reserve, impairment of long-lived assets, and warranty expenses. Actual results could differ from those estimates.

Fair Value of Financial Instruments

The carrying values of cash and cash equivalents, accounts receivable, and accounts payable are reasonable estimates of their fair value due to their short-term nature. Our marketable securities are carried at fair value based on quoted market prices in an active market.

Table of Contents**Cash and Cash Equivalents**

We include cash and investments having an original maturity of three months or less at the time of acquisition in cash and cash equivalents. We have never incurred realized or unrealized holdings gains or losses on securities classified as cash equivalents. Income resulting from short-term investments is recorded as interest income. At December 31, 2017, we had cash on hand of approximately \$1,260 at our Beijing, China subsidiary that is subject to certain local regulations that may limit the immediate availability of these funds outside of China. Cash on hand at our Italy subsidiary totaled approximately \$1,132 at December 31, 2017.

Restricted Cash

Restricted cash represents funds that are restricted to satisfy any amount borrowed against the Company's existing revolving credit facility (the Facility) with JPMorgan Chase Bank, N.A. The remaining balance of restricted cash totaling \$6,020 will remain through the Maturity Date of the Facility. Refer to Note 10 Debt Financing for further information on the Facility.

Foreign Currency Risk Management

Our earnings and cash flows are subject to fluctuations due to changes in foreign currency exchange rates. We do not enter into foreign currency forward contracts or into foreign currency option contracts to manage this risk due to the nature of the transactions involved.

Accounts Receivable

Accounts receivable consist of amounts due to us in the normal course of our business, are not collateralized, and normally do not bear interest. Accounts receivable includes unbilled receivables, representing costs and estimated earnings in excess of billings on uncompleted contracts under the percentage of completion method. At December 31, 2017 and 2016, unbilled receivables were approximately \$7,894 and \$6,755, respectively.

Allowance for Doubtful Accounts

The allowance for doubtful accounts is our management's best estimate of the amount of credit losses in accounts receivable. In order to control and monitor the credit risk associated with our customer base, we review the credit worthiness of customers on a recurring basis. Factors influencing the level of scrutiny include the level of business the customer has with Fuel Tech, the customer's payment history, and the customer's financial stability. Receivables are considered past due if payment is not received by the date agreed upon with the customer, which is normally 30 days. Representatives of our management team review all past due accounts on a weekly basis to assess collectability. At the end of each reporting period, the allowance for doubtful accounts balance is reviewed relative to management's collectability assessment and is adjusted if deemed necessary through a corresponding charge or credit to bad debts expense, which is included in selling, general, and administrative expenses in the consolidated statements of operations. Bad debt write-offs are made when management believes it is probable a receivable will not be recovered. The table below sets forth the components of the Allowance for Doubtful Accounts for the years ended December 31.

| Year | Balance at January 1 | Provision charged to expense | Write-offs / Recoveries | Balance at December 31 |
|------|----------------------|------------------------------|-------------------------|------------------------|
| 2015 | \$ 1,922 | \$ — | \$ (150) | \$ 1,772 |
| 2016 | \$ 1,772 | \$ 172 | \$ (375) | \$ 1,569 |
| 2017 | \$ 1,569 | \$ — | \$ (24) | \$ 1,545 |

Prepaid expenses and other current assets

Prepaid expenses and other current assets includes Chinese banker acceptances of \$613 and \$838 as of December 31, 2017 and 2016. These are short-term commitments of typically 30 to 60 days for future payments and can be redeemed at a discount or applied to future vendor payments.

Inventories

Inventories consist primarily of spare parts and are stated at the lower of cost or net realizable value using the first-in, first-out method. Usage is recorded in cost of sales in the period that parts were issued to a project or used to service equipment. Inventories are periodically evaluated to identify obsolete or otherwise impaired parts and are written off when management determines usage is not probable. The Company estimates the balance of excess and obsolete inventory by analyzing inventory by age using last used and original purchase date and existing sales pipeline for

which the inventory could be used. The table below sets forth the components of the Excess and Obsolete Inventory Reserve for the years ended December 31.

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| Year | Balance at January 1 | Provision charged to expense | Write-offs / Recoveries | Balance at December 31 |
|------|----------------------|------------------------------|-------------------------|------------------------|
| 2016 | \$ — | \$ 825 | \$ — | \$ 825 |
| 2017 | \$ 825 | \$ 228 | | \$ 1,053 |

Foreign Currency Translation and Transactions

Assets and liabilities of consolidated foreign subsidiaries are translated into U.S. dollars at exchange rates in effect at year end. Revenues and expenses are translated at average exchange rates prevailing during the year. Gains or losses on foreign currency transactions and the related tax effects are reflected in net income. The resulting translation adjustments are included in stockholders' equity as part of accumulated other comprehensive income.

Accumulated Other Comprehensive (Loss)

The changes in accumulated other comprehensive (loss) by component were as follows:

| | December 31, | |
|--|--------------|-----------|
| | 2017 | 2016 |
| Foreign currency translation | | |
| Balance at beginning of period | \$(1,574) | \$(1,568) |
| Other comprehensive (loss): | | |
| Foreign currency translation adjustments (1) | 802 | (6) |
| Balance at end of period | \$(772) | \$(1,574) |
| Available-for-sale marketable securities | | |
| Balance at beginning of period | \$6 | \$12 |
| Other comprehensive (loss): | | |
| Net unrealized holding (loss) (2) | (2) | (6) |
| Balance at end of period | \$4 | \$6 |
| Total accumulated other comprehensive (loss) | \$(768) | \$(1,568) |

(1) In all periods presented, there were no tax impacts related to rate changes and no amounts were reclassified to earnings.

(2) In all periods presented, there were no realized holding gains or losses and therefore no amounts were reclassified to earnings.

Research and Development

Research and development costs are expensed as incurred. Research and development projects funded by customer contracts are reported as part of cost of goods sold. Internally funded research and development expenses are reported as operating expenses.

Product/System Warranty

We typically warrant our air pollution control products and systems against defects in design, materials and workmanship for one to two years. A provision for estimated future costs relating to warranty expense is recorded when the products/systems become commercially operational.

Goodwill

Goodwill is not amortized, but is reviewed annually or more frequently if indicators arise, for impairment. Our evaluation of goodwill impairment involves first assessing qualitative factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying amount. We may bypass this qualitative assessment, or determine that based on our qualitative assessment considering the totality of events and circumstances including macroeconomic factors, industry and market considerations, current and projected financial performance, a sustained decrease in our share price, or other factors, that additional impairment analysis is necessary. This additional analysis involves comparing the current fair value of our reporting units to their carrying values. We use a discounted cash flow (DCF) model to determine the current fair value of our two reporting units. A number of significant assumptions and estimates are involved in the application of the DCF model to forecast operating cash flows,

including markets and market share, sales volumes and prices, costs to produce and working capital changes.
Management considers

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historical experience and all available information at the time the fair values of its reporting units are estimated. However, actual fair values that could be realized in an actual transaction may differ from those used to evaluate the impairment of goodwill.

Goodwill is allocated to each of our reporting units, which is defined as an operating segment or one level below an operating segment, upon acquisition after considering the nature of the net assets giving rise to the goodwill and how each reporting unit would enjoy the benefits and synergies of the net assets acquired. Goodwill is also evaluated for impairment at the reporting unit level. We have two reporting units for goodwill evaluation purposes: the FUEL CHEM technology segment and the APC technology segment. There is no goodwill associated with our APC business technology segment.

The entire goodwill balance of \$2,116 was allocated to the FUEL CHEM technology segment as of December 31, 2017 and 2016. The Company did not recognize a charge for goodwill impairment for the periods ended December 31, 2017, 2016 and 2015.

Other Intangible Assets

Management reviews other finite-lived intangible assets, which include customer lists and relationships, covenants not to compete, patent assets, trade names, and acquired technologies, for impairment when events or changes in circumstances indicate the carrying amount of an asset or asset group may not be recoverable. In the event that impairment indicators exist, a further analysis is performed and if the sum of the expected undiscounted future cash flows resulting from the use of the asset or asset group is less than the carrying amount of the asset or asset group, an impairment loss equal to the excess of the asset or asset group's carrying value over its fair value is recorded.

Management considers historical experience and all available information at the time the estimates of future cash flows are made, however, the actual cash values that could be realized may differ from those that are estimated. In the fourth quarter of 2016, the Company performed an impairment test of the carrying value of our intangible assets to determine whether any impairment existed given the decline in our stock price and sustained operating losses in our APC segment. The Company determined that the sum of the expected undiscounted cash flows attributable to certain intangible assets was less than its carrying value and that an impairment charge was required. The impairment loss primarily related to the developed technology, customer relationships and trademarks acquired in the 2014 acquisition of PECO and FGC. The Company calculated the estimated fair value of the intangible asset by summing the present value of the expected cash flows over its life. The impairment was calculated by deducting the present value of the expected cash flows from the carrying value. This assessment resulted in an impairment charge of \$2,074, which was included in "Intangible assets impairment" in the accompanying Consolidated Statements of Operations for the year ended December 31, 2016.

In the fourth quarter of 2015, the Company performed an impairment test of the carrying value of our intangible assets to determine whether any impairment existed. The Company determined that the sum of the expected undiscounted cash flows attributable to certain intangible assets was less than its carrying value and that an impairment write-down was required. The impairment loss primarily related to the customer lists acquired in the 2009 acquisition of Advanced Combustion Technology and the 2014 acquisition of PECO. The Company calculated the estimated fair value of the intangible asset by summing the present value of the expected cash flows over its life. The impairment was calculated by deducting the present value of the expected cash flows from the carrying value. This assessment resulted in an impairment write-down of \$1,425, which was included in "Intangible assets impairment" in the accompanying Consolidated Statements of Operations for the year ended December 31, 2015.

Third-party costs related to the development of patents are included within other intangible assets on the consolidated balance sheets. As of December 31, 2017 and 2016, the net patent asset balance, excluding patents acquired in business acquisitions, was \$1,611 and \$1,656, respectively. The third-party costs capitalized as patent costs during the years ended December 31, 2017 and 2016 were \$135 and \$166, respectively. Third-party costs are comprised of legal fees that relate to the review and preparation of patent disclosures and filing fees incurred to present the patents to the required governing body.

Our intellectual property portfolio has been a significant building block for the Air Pollution Control and FUEL CHEM technology segments. The patents are essential to the generation of revenue for our businesses and are essential to protect us from competition in the markets in which we serve. These costs are being amortized on the

straight-line method over the period beginning with the patent issuance date and ending on the patent expiration date. Patent maintenance fees are charged to operations as incurred.

Amortization expense from continuing operations for intangible assets was \$215, \$1,118 and \$1,536 for the years ended December 31, 2017, 2016 and 2015, respectively. The table below shows the amortization period and other intangible asset cost by intangible asset as of December 31, 2017 and 2016, and the accumulated amortization and net intangible asset value in total for all other intangible assets.

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| Description of Other Intangibles | Amortization Period | 2017 | | Net Carrying Amount | 2016 | | Net Carrying Amount |
|----------------------------------|---------------------|-----------------------|--------------------------|---------------------|-----------------------|--------------------------|---------------------|
| | | Gross Carrying Amount | Accumulated Amortization | | Gross Carrying Amount | Accumulated Amortization | |
| Customer relationships | 11-15 years | \$1,198 | \$ (1,138) | \$ 60 | \$3,119 | \$ (2,979) | \$ 140 |
| Patent assets | 1- 20 years | 2,412 | (801) | 1,611 | 3,100 | (1,444) | 1,656 |
| Total | | \$3,610 | \$ (1,939) | \$ 1,671 | \$6,219 | \$ (4,423) | \$ 1,796 |

The table below shows the estimated future amortization expense for intangible assets:

| Year | Estimated Amortization Expense |
|---------------------------|--------------------------------|
| 2018 | \$ 198 |
| 2019 | 138 |
| 2020 | 138 |
| 2021 | 138 |
| 2022 | 138 |
| Thereafter ⁹²¹ | |
| Total | \$ 1,671 |

Property and Equipment

Property and equipment is stated at historical cost. Provisions for depreciation are computed by the straight-line method, using estimated useful lives that range based on the nature of the asset. Leasehold improvements are depreciated over the shorter of the associated lease term or the estimated useful life of the asset. Depreciation expense from continuing operations was \$1,312, \$1,780, and \$2,067 for the years ended December 31, 2017, 2016 and 2015, respectively. The table below shows the depreciable life and cost by asset class as of December 31, 2017 and 2016, and the accumulated depreciation and net book value in total for all classes of assets.

| Description of Property and Equipment | Depreciable Life | 2017 | | 2016 | |
|---------------------------------------|------------------|----------|--------------------------|-----------|--------------------------|
| | | Cost | Accumulated Depreciation | Cost | Accumulated Depreciation |
| Land | | \$1,050 | | \$1,440 | |
| Building | 39 years | 3,950 | | 4,535 | |
| Building and leasehold improvements | 3-39 years | 3,264 | | 5,087 | |
| Field equipment | 3-4 years | 19,251 | | 19,467 | |
| Computer equipment and software | 2-3 years | 3,124 | | 2,973 | |
| Furniture and fixtures | 3-10 years | 1,539 | | 1,521 | |
| Vehicles | 5 years | 32 | | 36 | |
| Total cost | | 32,210 | | 35,059 | |
| Less accumulated depreciation | | (25,938) | | (24,542) | |
| Total net book value | | \$6,272 | | \$10,517 | |

Property and equipment is reviewed for impairment when events and circumstances indicate that the carrying amount of the assets (or asset group) may not be recoverable. If impairment indicators exists, we perform a more detailed analysis and an impairment loss is recognized when estimated future undiscounted cash flows expected to result from the use of the asset (or asset group) and its eventual disposition are less than the carrying amount. This process of analyzing impairment involves examining the operating condition of individual assets (or asset group) and estimating a fair value based upon current condition, relevant market factors and remaining estimated operational life compared to the asset's remaining depreciable life. Quoted market prices and other valuation techniques are used to determine expected cash flows. A significant portion of our property and equipment is comprised of assets deployed at customer locations relating to our FUEL CHEM technology asset group, and due to the shorter-term duration over which this equipment is depreciated, the likelihood of impairment is mitigated. The discontinuation of a FUEL CHEM program at a customer site would most likely result in the re-deployment of all or most of the affected assets to another

customer location rather than an impairment.

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During the second quarter of 2017, we experienced a decrease in our stock price that caused our market capitalization to fall below the equity value on our consolidated balance sheet, which resulted in an indicator of impairment. This, along with an overall slowdown in APC technology and corresponding downward adjustments to our financial forecasts, was considered during a detailed evaluation of the fair value of our reporting units. As a result of these triggering events, Fuel Tech performed a long-lived asset impairment analysis for each of the reporting units as of April 1, 2017. Based on this evaluation, we determined that our APC segment failed the first step of our impairment analysis because the estimated gross cash flows and fair value of the reporting unit was less than its carrying value, thus requiring additional analysis of the segment. However, no impairment resulted as the fair values of the underlying patents and equipment equaled or exceeded their carrying values. We evaluated the corporate asset group, which contains our corporate headquarters office building and land in Warrenville, Illinois, using the residual method and management determined that there was not adequate gross cash flows to support the carrying value. After obtaining an appraisal from a third-party appraiser, management determined that the carrying value of the office building and land exceeded the fair value and recorded an impairment charge of \$2,965 for the year ended December 31, 2017.

Revenue Recognition

Revenues from the sales of chemical products are recorded when title transfers, either at the point of shipment or at the point of destination, depending on the contract with the customer.

We utilize the percentage of completion method of accounting for equipment construction and license contracts that are sold within the Air Pollution Control technology segment. Under the percentage of completion method, revenues are recognized as work is performed based on the relationship between actual construction costs incurred and total estimated costs at completion. Construction costs include all direct costs such as materials, labor, subcontracting costs, and indirect costs allocable to the particular contract such as indirect labor, tools and equipment, and supplies.

Revisions in completion estimates and contract values are made in the period in which the facts giving rise to the revisions become known and can influence the timing of when revenues are recognized under the percentage of completion method of accounting. Such revisions have historically not had a material effect on the amount of revenue recognized. Provisions are made for estimated losses on uncompleted contracts in the period in which such losses are determined. The completed contract method is used for certain contracts when reasonably dependable estimates of the percentage of completion cannot be made. When the completed contract method is used, revenue and costs are deferred until the contract is substantially complete, which usually occurs upon customer acceptance of the installed product.

Cost of Sales

Cost of sales includes all internal and external engineering costs, equipment and chemical charges, inbound and outbound freight expenses, internal and site transfer costs, installation charges, purchasing and receiving costs, inspection costs, warehousing costs, project personnel travel expenses and other direct and indirect expenses specifically identified as project- or product line-related, as appropriate (e.g., test equipment depreciation and certain insurance expenses). Certain depreciation and amortization expenses related to tangible and intangible assets, respectively, are allocated to cost of sales. We classify shipping and handling costs in cost of sales in the consolidated statements of operations.

Selling, General and Administrative Expenses

Selling, general and administrative expenses primarily include the following categories except where an allocation to the cost of sales line item is warranted due to the project- or product-line nature of a portion of the expense category: salaries and wages, employee benefits, non-project travel, insurance, legal, rent, accounting and auditing, recruiting, telephony, employee training, Board of Directors' fees, auto rental, office supplies, dues and subscriptions, utilities, real estate taxes, commissions and bonuses, marketing materials, postage and business taxes. Departments comprising the selling, general and administrative line item primarily include the functions of executive management, finance and accounting, investor relations, regulatory affairs, marketing, business development, information technology, human resources, sales, legal and general administration.

Income Taxes

The provision for income taxes is determined using the asset and liability approach of accounting for income taxes. Under this approach, the provision for income taxes represents income taxes paid or payable (or received or

receivable) for the current year plus the change in deferred taxes during the year. Deferred taxes represent the future tax consequences expected to occur when the reported amounts of assets and liabilities are recovered or paid, and result from differences between the financial and tax bases of our assets and liabilities and are adjusted for changes in tax rates and tax laws when enacted. Valuation allowances are recorded to reduce deferred tax assets when it is more likely than not that a tax benefit will not be realized. In evaluating the need for a valuation allowance, management considers all potential sources of taxable income, including income available in carryback periods, future reversals of taxable temporary differences, projections of taxable income, and income from tax planning strategies, as well as all available positive and negative evidence. Positive evidence includes factors such as a history of profitable operations,

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projections of future profitability within the carryforward period, including from tax planning strategies, and our experience with similar operations. Negative evidence includes items such as cumulative losses, projections of future losses, or carryforward periods that are not long enough to allow for the utilization of a deferred tax asset based on existing projections of income. Deferred tax assets for which no valuation allowance is recorded may not be realized upon changes in facts and circumstances.

Tax benefits related to uncertain tax positions taken or expected to be taken on a tax return are recorded when such benefits meet a more likely than not threshold. Otherwise, these tax benefits are recorded when a tax position has been effectively settled, which means that the statute of limitation has expired or the appropriate taxing authority has completed their examination even though the statute of limitations remains open. Interest and penalties related to uncertain tax positions are recognized as part of the provision for income taxes and are accrued beginning in the period that such interest and penalties would be applicable under relevant tax law until such time that the related tax benefits are recognized.

Stock-Based Compensation

Our stock-based employee compensation plan, referred to as the Fuel Tech, Inc. 2014 Long-Term Incentive Plan (Incentive Plan), was adopted in May 2014 and allows for awards to be granted to participants in the form of non-qualified stock options, incentive stock options, stock appreciation rights, restricted stock, restricted stock units, performance awards, and bonuses or other forms of share-based or non-share-based awards or combinations thereof. Participants in the Incentive Plan may be our directors, officers, employees, consultants or advisors (except consultants or advisors in capital-raising transactions) as the directors determine are key to the success of our business. There are a maximum of 4,400,676 shares that may be issued or reserved for awards to participants under the Incentive Plan as of December 31, 2017. Based on the existing issued or reserved awards in Incentive Plan, there are 404,941 shares available to be used for future awards to participants in the Incentive Plan as of December 31, 2017.

Basic and Diluted Earnings per Common Share

Basic earnings per share excludes the antidilutive effects of stock options, restricted stock units (RSUs) and the nil coupon non-redeemable convertible unsecured loan notes (see Note 7). Diluted earnings per share includes the dilutive effect of the nil coupon non-redeemable convertible unsecured loan notes, RSUs, and unexercised in-the-money stock options, except in periods of net loss where the effect of these instruments is antidilutive. Out-of-the-money stock options are excluded from diluted earnings per share because they are anti-dilutive. At December 31, 2017, 2016 and 2015, we had outstanding equity awards of 2,210,000, 1,800,000 and 2,068,000, respectively, which were antidilutive for the purpose of inclusion in the diluted earnings per share calculation because the exercise prices of the options were greater than the average market price of our common stock. As of December 31, 2017 and 2016, respectively, we had an additional 168,000 and 184,000 equity awards that were antidilutive because of the net loss in the year then ended. These equity awards could potentially dilute basic EPS in future years.

The table below sets forth the weighted-average shares used at December 31 in calculating earnings (loss) per share:

| | 2017 | 2016 | 2015 |
|---|------------|------------|------------|
| Basic weighted-average shares | 23,872,000 | 23,365,000 | 23,101,000 |
| Conversion of unsecured loan notes | — | — | — |
| Unexercised options and unvested restricted stock units | — | — | — |
| Diluted weighted-average shares | 23,872,000 | 23,365,000 | 23,101,000 |

Risk Concentrations

Financial instruments that potentially subject the Company to a significant concentration of credit risk consist primarily of cash and cash equivalents and accounts receivable. The Company maintains deposits in federally insured financial institutions in excess of federally insured limits. However, management believes the Company is not exposed to significant credit risk due to the financial position of its primary depository institution where a significant portion of its deposits are held.

For the year ended December 31, 2017, we had one customer which individually represented greater than 10% of revenues. The customer contributed primarily to our FUEL CHEM technology segment and represented 10% of consolidated revenues. We had no customers that accounted for greater than 10% of our current assets as of December 31, 2017.

For the year ended December 31, 2016, we had one customer which individually represented greater than 10% of revenues. This customer contributed primarily to our APC technology segment and represented 19% of consolidated revenues. We had no customers that accounted for greater than 10% of our current assets as of December 31, 2016.

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For the year ended December 31, 2015, we had one customer which individually represented greater than 10% of revenues. This customer contributed primarily to our FUEL CHEM technology segment and represented 12% of consolidated revenues. We had no customers that accounted for greater than 10% of our current assets as of December 31, 2015.

We control credit risk through requiring milestone payments on long-term contracts, performing ongoing credit evaluations of its customers, and in some cases obtaining security for payment through bank guarantees and letters of credit.

Treasury Stock

We use the cost method to account for its common stock repurchases. During the years ended December 31, 2017 and 2016, we withheld 289,202 and 103,097 shares of our Common Shares, valued at approximately \$258 and \$172, respectively, to settle personal tax withholding obligations that arose as a result of restricted stock units that vested. Refer to Note 6, "Treasury Stock," for further discussion.

Recently Adopted Accounting Standards

In March 2016, the FASB issued ASU 2016-09, Compensation - Stock Compensation (Topic 718): Improvements to Employee Share-Based Payment Accounting. The amendments in this Update simplify the income tax effects, minimum statutory tax withholding requirements and impact of forfeitures related to how share-based payments are accounted for and presented in the financial statements. ASU 2016-09 is effective for the Company beginning on January 1, 2017. The adoption of ASU 2016-09 did not have a material effect on our earnings, cash flows, or financial position. See Note 8, Stock-Based Compensation, for further discussion.

In July 2015, the FASB issued ASU 2015-11, Inventory (Topic 330): Simplifying the Measurement of Inventory. This new accounting guidance more clearly articulates the requirements for the measurement and disclosure of inventory. Topic 330, Inventory, currently requires an entity to measure inventory at the lower of cost or market. Market could be replacement cost, net realizable value, or net realizable value less an approximately normal profit margin. This new accounting guidance requires the measurement of inventory at lower of cost and net realizable value. The adoption of ASU 2015-11 is effective for the Company beginning on January 1, 2017 and the adoption did not have a material impact on the Company's consolidated financial statements.

Recently Issued Accounting Pronouncements

In May 2014, the Financial Accounting Standards Board (FASB) issued ASU 2014-09 "Revenue from Contracts with Customers" (Topic 606). These changes created a comprehensive framework for all entities in all industries to apply in the determination of when to recognize revenue, and, therefore, supersede virtually all existing revenue recognition requirements and guidance. This framework is expected to result in less complex guidance in application while providing a consistent and comparable methodology for revenue recognition. The core principle of the guidance is that an entity should recognize revenue to depict the transfer of promised goods or services to customers in an amount that reflects the consideration to which the entity expects to be entitled in exchange for those goods or services. To achieve this principle, an entity should apply the following steps: (i) identify the contract(s) with a customer, (ii) identify the performance obligations in the contract(s), (iii) determine the transaction price, (iv) allocate the transaction price to the performance obligations in the contract(s), and (v) recognize revenue when, or as, the entity satisfies a performance obligation. The new standard also requires additional financial statement disclosures that will enable users to understand the nature, amount, timing and uncertainty of revenue and cash flows relating to customer contracts. In August 2015, the FASB approved a one-year deferral to January 1, 2018. The standard may be applied retrospectively to each prior period presented or retrospectively with the cumulative effect recognized as of the date of adoption. The Company has completed a detailed review of the terms and provisions of its customer contracts in light of these changes. The project team is in the process of finalizing the evaluation of these contracts under the new guidance, as well as assessing the need for any potential changes to the Company's accounting policies and internal control structure. That said, the Company recognizes revenue when title, ownership, and risk of loss pass to the customer, all of which occurs utilizing a percentage of completion (cost-to-cost input), or shipment or delivery of the product based

on the applicable shipping terms. Fuel Tech's sales of its products to customers represent single performance obligations, which are not expected to be impacted by these changes. As a result, management does not expect the adoption of these changes to have a material impact on the Consolidated Financial Statements. The Company adopted the standard on January 1, 2018 using the modified retrospective method and the cumulative impact, which the Company expects will be immaterial to the Consolidated Financial Statements, will be recognized in beginning retained earnings.

In February 2016, the FASB issued ASU 2016-02, Leases (Topic 842). The amendments in this Update increase transparency and comparability among organizations by recognizing lease assets and lease liabilities on the balance sheet and disclosing key information about leasing arrangements. ASU 2016-02 will be effective for the Company beginning on January 1, 2019. The Company is in the initial stages of evaluating the impact of the new standard on the accounting policies, processes, and system

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requirements. While the Company continues to assess the potential impacts of the new standard and anticipate this standard could have a material impact on the consolidated financial statements, the Company does not know or cannot reasonably estimate quantitative information related to the impact of the new standard on the financial statements at this time.

In November 2016, the FASB issued ASU 2016-18, Statement of Cash Flows (Topic 230): Restricted Cash (a consensus of the FASB Emerging Issues Task Force). The amendments in this Update require that a statement of cash flows explain the change during the period in the total of cash, cash equivalents, and amounts generally described as restricted cash or restricted cash equivalents. Accordingly, restricted cash will be included with cash and cash equivalents when reconciling the beginning-of-period and end-of-period total amounts shown on the Consolidated Statement of Cash Flows. ASU 2016-18 will be effective for the Company beginning on January 1, 2018 and will be applied using a retrospective approach. Other than this change in presentation within the Consolidated Statement of Cash Flows, ASU 2016-18 will not have an impact on the Company's consolidated financial statements.

In January 2017, the FASB issued ASU 2017-04, Intangibles-Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment. The amendments in this Update simplify how an entity is required to test goodwill for impairment by eliminating Step 2 from the goodwill impairment test. Step 2 measures a goodwill impairment loss by comparing the implied fair value of a reporting unit's goodwill with the carrying amount of that goodwill. ASU 2017-04 will be effective for the Company beginning on January 1, 2020. The Company is in the initial stages of evaluating the impact of the new standard on the accounting policies, processes, and system requirements. While the Company continues to assess the potential impacts of the new standard and anticipate this standard could have a material impact on the consolidated financial statements, the Company does not know or cannot reasonably estimate quantitative information related to the impact of the new standard on the financial statements at this time.

2. DISCONTINUED OPERATIONS

During 2017, the Company has suspended all operations associated with the Fuel Conversion business segment. The components of the net assets of the Fuel Conversion discontinued operations as of December 31, 2017 are included in Assets held for sale on the Consolidated Balance Sheets totaling \$485 which consists primarily of certain equipment. The components of the net assets of the Fuel Conversion discontinued operations as of December 31, 2016 are included in Assets held for sale on the Consolidated Balance Sheets totaling \$2,058 which consisted of certain equipment of \$402 and the Carbonite intangible asset of \$1,656. The resulting amount in assets held for sale was determined using management's assumptions based on a plan of sale and we may not be able to realize as much value from the sale of the assets as we expect. In addition, accrued severance of \$376 is included in the other accrued liabilities line of the Consolidated Balance Sheets as of December 31, 2017. The Fuel Conversion business segment had no other assets or liabilities associated with it.

The activity of the Fuel Conversion discontinued operations consisted of Research and Development, severance, an impairment charge and other costs for the years ended December 31, 2017, 2016, and 2015 of \$3,914, \$2,800 and \$2,826, respectively. The loss from discontinued operations in the Consolidated Statement of Operations for the year ended December 31, 2017 includes the severance charges associated with suspension of the Fuel Conversion business segment of \$581. The loss from discontinued operations in the Consolidated Statement of Operations for the year ended December 31, 2017 includes an impairment charge related to the Carbonite intangible asset of \$1,354 as a result of not being able to reach an agreement with a third-party to acquire or license the Carbonite technology. Absent a third-party agreement, management determined there was not adequate gross cash flows to support the carrying value of the asset and recorded the impairment charge during the fourth quarter of 2017. The Fuel Conversion business segment had no revenues associated with it.

The Company expects to incur \$581 of severance costs relating to the suspension of the Fuel Conversion business segment, of which \$205 was paid in 2017, \$311 will be paid in 2018 and \$65 will be paid in 2019. The Company expects to incur storage fees and other disposal costs associated with certain property, plant and equipment and

contractual termination payments or other miscellaneous expenses but an estimated amount or range of amounts has not yet been determined.

Table of Contents**3. CONSTRUCTION CONTRACTS IN PROGRESS**

The status of contracts in progress as of December 31, 2017 and 2016 is as follows:

| | 2017 | 2016 |
|---|------------|------------|
| Costs incurred on uncompleted contracts | \$101,600 | \$111,925 |
| Estimated earnings | 49,561 | 55,527 |
| Earned revenue | 151,161 | 167,452 |
| Less billings to date | (145,670) | (162,427) |
| Total | \$5,491 | \$5,025 |
| Classified as follows: | | |
| Costs and estimated earnings in excess of billings on uncompleted contracts | \$7,894 | \$6,755 |
| Billings in excess of costs and estimated earnings on uncompleted contracts | (2,403) | (1,730) |
| Total | \$5,491 | \$5,025 |

Costs and estimated earnings in excess of billings on uncompleted contracts are included in accounts receivable on the consolidated balance sheet, while billings in excess of costs and estimated earnings on uncompleted contracts are included in other accrued liabilities on the consolidated balance sheet.

As of December 31, 2017 we had four construction contracts in progress that were identified as loss contracts and a provision for losses of \$117 was recorded in other accrued liabilities on the consolidated balance sheet. As of December 31, 2016, we had 2 construction contracts in progress that was identified as a loss contract and a provision for losses of \$41 was recorded in other accrued liabilities on the consolidated balance sheet.

4. INCOME TAXES

On December 22, 2017, the United States (“U.S.”) enacted significant changes to the U.S. tax law following the passage and signing of H.R.1, “An Act to Provide for Reconciliation Pursuant to Titles II and V of the Concurrent Resolution on the Budget for Fiscal Year 2018” (the “Tax Act”) (previously known as “The Tax Cuts and Jobs Act”). The Tax Act included significant changes to existing tax law, including a permanent reduction to the U.S. federal corporate income tax rate from 35% to 21%, a one-time repatriation tax on deferred foreign income (“Transition Tax”), deductions, credits and business-related exclusions.

On December 22, 2017, the SEC issued guidance under Staff Accounting Bulletin No. 118, Income Tax Accounting Implications of the Tax Cuts and Jobs Act (“SAB 118”) directing taxpayers to consider the impact of the U.S. legislation as “provisional” when it does not have the necessary information available, prepared or analyzed (including computations) in reasonable detail to complete its accounting for the change in tax law. The Company did not record additional provisional income tax given the Company has full valuation allowances on its deferred tax assets and liabilities and the net operating loss generated in 2017. This represents our best estimate based on interpretation of the U.S. legislation as we are still accumulating data to finalize the underlying calculations, or in certain cases, the U.S. Treasury is expected to issue further guidance on the application of certain provisions of the U.S. legislation. Future adjustments to the provisional numbers will be recorded as discrete adjustments to income tax expense in the period in which those adjustments become estimable and/or are finalized.

Accordingly, the Company’s income tax provision as of December 31, 2017 reflects (i) the current year impacts of the U.S. Tax Act on the estimated annual effective tax rate and (ii) the following discrete items resulting directly from the enactment of the Tax Act based on the information available, prepared, or analyzed (including computations) in reasonable detail:

(a) The Tax Act reduced the U.S. federal corporate tax rate from 35% to 21%. The impact from the permanent reduction to the U.S. federal corporate income tax rate from 35% to 21% is effective January 1, 2018. The Company adjusted the deferred tax asset and liabilities and the corresponding valuation reserve as a result of the reduction in the U.S. federal corporate tax rate.

The Tax Act imposes a one-time transition tax on earnings of certain foreign subsidiaries that were previously tax deferred and creates new taxes on certain foreign-sourced earnings. The one-time transition tax is based on our total post-1986 foreign earnings and profits ("E&P") for which we have previously deferred from U.S. income taxes. The Company determined there to be no provisional amount for its one-time transition tax liability for its foreign subsidiaries given the cumulative net operating losses in its foreign jurisdictions. We have not yet completed our calculation of the total post-1986 foreign E&P for these foreign subsidiaries. Further, the transition tax is based in part on the amount of those earnings held in cash and other specified assets which may change

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when we finalize these amounts and the calculation of post-1986 foreign E&P previously deferred from U.S. federal taxation. No additional income taxes have been provided for any remaining undistributed foreign earnings not subject to the transition tax and any additional outside basis difference (i.e., basis difference in excess of that subject to the one-time transition tax) inherent in these entities as these amounts continue to be indefinitely reinvested in foreign operations. It is not practicable to determine the amount of unrecognized withholding taxes and deferred tax liability related to any remaining undistributed foreign earnings not subject to the transition tax and additional outside basis difference in these entities. The position to indefinitely reinvest foreign earnings will be reassessed as part of the analysis related to the one-time repatriation tax.

Within the calculation of the Company's annual effective tax rate the Company has used assumptions and estimates that may change as a result of future guidance, interpretation, and rule-making from the Internal Revenue Service, the SEC, and the FASB and/or various other taxing jurisdictions. For example, the Company anticipates that the state jurisdictions will continue to determine and announce their conformity to the Tax Act which could have an impact on the annual effective tax rate.

The components of (loss) income before taxes for the years ended December 31 are as follows:

| Origin of income before taxes | 2017 | 2016 | 2015 |
|-------------------------------|------------|------------|-----------|
| United States | \$(9,821) | \$(13,016) | \$(9,763) |
| Foreign | (1,208) | (2,708) | 1,140 |
| (Loss) before income taxes | \$(11,029) | \$(15,724) | \$(8,623) |

Significant components of income tax benefit (expense) for the years ended December 31 are as follows:

| | 2017 | 2016 | 2015 |
|------------------------------|-------|-----------|-----------|
| Current: | | | |
| Federal | \$111 | \$(357) | \$1,155 |
| State | — | — | (14) |
| Foreign | (65) | (105) | (120) |
| Total current | 46 | (462) | 1,021 |
| Deferred: | | | |
| Federal | — | — | (4,143) |
| State | — | — | (548) |
| Foreign | — | (1,202) | (87) |
| Total deferred | — | (1,202) | (4,778) |
| Income tax benefit (expense) | \$46 | \$(1,664) | \$(3,757) |

A reconciliation between the provision for income taxes calculated at the U.S. federal statutory income tax rate and the consolidated income tax expense in the consolidated statements of operations for the years ended December 31 is as follows:

| | 2017 | 2016 | 2015 |
|--|---------|---------|---------|
| Provision at the U.S. federal statutory rate | 34.0 % | 34.0 % | 34.0 % |
| State taxes, net of federal benefit | — % | 2.4 % | 5.2 % |
| Foreign tax rate differential | (0.2)% | — % | 0.6 % |
| Valuation allowance | 10.2 % | (42.7)% | (72.3)% |
| Federal tax rate change | (43.9)% | — % | — % |
| Other true up | — % | (0.6)% | (7.8)% |
| Intangible assets impairment and other non-deductibles | (1.8)% | — % | (2.2)% |
| Other | 2.1 % | (4.1)% | (1.1)% |
| Income tax benefit (expense) effective rate | 0.4 % | (11.0)% | (43.6)% |

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The deferred tax assets and liabilities at December 31 are as follows:

| | 2017 | 2016 |
|---|----------|----------|
| Deferred tax assets: | | |
| Stock compensation expense | \$1,814 | \$2,624 |
| Goodwill | 2,366 | 2,235 |
| Royalty accruals | 443 | 353 |
| Intangible assets | — | 967 |
| Bad debt allowance | 360 | 389 |
| Inter-company interest expense accrual | 496 | 629 |
| Net operating loss carryforwards | 5,253 | 5,485 |
| Credit carry-forwards | 694 | 584 |
| Inventory reserve | 254 | 318 |
| Depreciation | 555 | — |
| Other | 362 | 399 |
| Total deferred tax assets | 12,597 | 13,983 |
| Deferred tax liabilities: | | |
| Depreciation | — | (460) |
| Intangible assets | (386) | — |
| Other | (146) | (344) |
| Total deferred tax liabilities | (532) | (804) |
| Net deferred tax asset before valuation allowance | 12,065 | 13,179 |
| Valuation allowances for deferred tax assets | (12,065) | (13,179) |
| Net deferred tax asset | \$— | \$— |

The change in the valuation allowance for deferred tax assets for the years ended December 31 is as follows:

| Year | Balance at January 1 | Charged to costs and expenses | (Deductions)/Other | Balance at December 31 |
|------|----------------------|-------------------------------|--------------------|------------------------|
| 2015 | \$ 2,006 | 6,625 | (799) | \$ 7,832 |
| 2016 | \$ 7,832 | 5,347 | — | \$ 13,179 |
| 2017 | \$ 13,179 | (1,114) | — | \$ 12,065 |

For the years ended December 31, 2017, 2016 and 2015, there were no exercises of stock options.

As required by ASC 740, we recognize the financial statement benefit of a tax position only after determining that the relevant tax authority would more likely than not sustain the position following an audit. For tax positions meeting the more-likely-than-not threshold, the amount recognized in the financial statements is the largest benefit that has a greater than 50% likelihood of being realized upon ultimate settlement with the relevant tax authority.

The following table summarizes our unrecognized tax benefit activity (excluding interest and penalties) during the years ended December 31, 2017, 2016 and 2015:

| Description | 2017 | 2016 | 2015 |
|--|------|--------|-------|
| Balance at beginning of period | \$ — | \$140 | \$117 |
| Increases in positions taken in a current period | — | — | 38 |
| Decreases due to settlements | — | (140) | (15) |
| Balance at end of period | \$ — | \$— | \$140 |

We recognize interest and penalties related to unrecognized tax benefits in income tax expense for all periods presented. There were no interest and penalties recognized in income tax expense during the years ended December 31, 2017, 2016 and 2015. The total amount of unrecognized tax benefits as of December 31, 2017, 2016 and 2015, including interest and penalties, was \$0, \$0 and \$140, respectively, all of which if ultimately recognized will reduce our annual effective tax rate.

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We are subject to income taxes in the U.S. federal jurisdiction, and various states and foreign jurisdictions. Tax regulations within each jurisdiction are subject to the interpretation of the related tax laws and regulations and require significant judgment to apply. With few exceptions, we are no longer subject to U.S. federal, state and local, or non-U.S. income tax examinations by tax authorities for the years before 2014.

Management periodically estimates our probable tax obligations using historical experience in tax jurisdictions and informed judgments. There are inherent uncertainties related to the interpretation of tax regulations in the jurisdictions in which we transact business. The judgments and estimates made at a point in time may change based on the outcome of tax audits, as well as changes to or further interpretations of regulations. If such changes take place, there is a risk that the tax rate may increase or decrease in any period. Tax accruals for tax liabilities related to potential changes in judgments and estimates for both federal and state tax issues are included in current liabilities on the consolidated balance sheet.

The investment in our foreign subsidiaries is considered to be indefinite in duration and therefore we have not provided a provision for deferred U.S. income taxes on the unremitted earnings from those subsidiaries. A provision has not been established because it is not practicable to determine the amount of unrecognized deferred tax liability for such unremitted foreign earnings and because it is our present intention to reinvest the undistributed earnings indefinitely. This position will be reassessed as part of the analysis related to the one-time repatriation tax.

As required by ASC 740, a valuation allowance must be established when it is more likely than not that all or a portion of a deferred tax asset will not be realized. We have approximately \$13,276 of US net operating loss carryforwards available to offset future US taxable income as of December 31, 2017. The net operating loss carry-forwards related to tax losses generated in prior years in the US begin to expire in 2034. Further, we have tax loss carry-forwards of approximately \$3,837 available to offset future foreign income in Italy as of December 31, 2017. We have recorded a full valuation allowance against the resulting \$920 deferred tax asset because we cannot anticipate when or if this entity will have taxable income sufficient to utilize the net operating losses in the future. There is no expiration of the net operating loss carry-forwards related to tax losses generated in prior years in Italy. Finally, we have tax loss carry-forwards of approximately \$3,613 available to offset future foreign income in China as of December 31, 2017. The net operating loss carry-forwards related to tax losses generated in prior years in China expire in 2022.

5. COMMON SHARES

At December 31, 2017 and 2016, respectively, we had 24,777,001 and 23,800,924 Common Shares issued and 24,132,910 and 23,446,035 outstanding, with an additional 6,715 shares reserved for issuance upon conversion of the nil coupon non-redeemable convertible unsecured loan notes (see Note 7). As of December 31, 2017, we had 4,400,676 shares reserved for issuance upon the exercise or vesting of equity awards, of which 1,116,750 are stock options that are currently exercisable (see Note 8).

6. TREASURY STOCK

Common shares held in treasury totaled 644,091 and 354,889 with a cost of \$1,472 and \$1,214 at December 31, 2017 and 2016, respectively. These shares were withheld from employees to settle personal tax withholding obligations that arose as a result of restricted stock units that vested during the current and prior years.

7. NIL COUPON NON-REDEEMABLE CONVERTIBLE UNSECURED LOAN NOTES

At December 31, 2017 and 2016, respectively, we had a principal amount of \$76 of nil coupon non-redeemable convertible unsecured perpetual loan notes (the "Loan Notes") outstanding. The Loan Notes are convertible at any time into Common Shares at rates of \$6.50 and \$11.43 per share, depending on the note. As of December 31, 2017, the nil coupon loan notes were convertible into 6,715 common shares. Based on our closing stock price of \$1.12 at December 31, 2017, the aggregate fair value of the common shares that the holders would receive if all the loan notes were converted would be approximately \$8, which is less than the principal amount of the loans outstanding as of that date. The Loan Notes bear no interest and have no maturity date. They are repayable in the event of our dissolution and the holders do not have the option to cash-settle the notes. Accordingly, they have been classified within

stockholders' equity in the accompanying balance sheet. The notes do not hold distribution or voting rights unless and until converted into common shares.

In 2017, 2016 and 2015, there were no Loan Notes repurchased by the Company.

Table of Contents**8. STOCK-BASED COMPENSATION**

Under our stock-based employee compensation plan, referred to as the Fuel Tech, Inc. 2014 Long-Term Incentive Plan (Incentive Plan), awards may be granted to participants in the form of Non-Qualified Stock Options, Incentive Stock Options, Stock Appreciation Rights, Restricted Stock, Restricted Stock Units (“RSUs”), Performance Awards, Bonuses or other forms of share-based or non-share-based awards or combinations thereof. Participants in the Incentive Plan may be our directors, officers, employees, consultants or advisors (except consultants or advisors in capital-raising transactions) as the directors determine are key to the success of our business. There are a maximum of 4,400,676 shares that may be issued or reserved for awards to participants under the Incentive Plan. At December 31, 2017, we had approximately 404,941 equity awards available for issuance under the Incentive Plan.

We adopted the provisions of ASU 2016-09 as of January 1, 2017. Pursuant to this adoption, we recorded any excess tax benefits within income tax expense for the year ended December 31, 2017, where previously these were recorded as increases or decreases to additional paid-in capital. This change has been applied prospectively effective January 1, 2017, and therefore no adjustments were made to prior periods. Given the Company has a full valuation allowance on its deferred tax assets, there were no excess tax benefits to record for the year ended December 31, 2017. In addition, we have continued to account for forfeitures of awards based on an estimate of the number of awards expected to be forfeited and adjusting the estimate when it is no longer probable that the employee will fulfill the service condition. In accordance with the guidance, we retrospectively reported cash paid on behalf of employees for withholding shares for tax-withholding purposes as a financing activity in the Consolidated Statement of Cash Flows. Additionally, there were no excess tax benefits for the year ended December 31, 2017. Any future excess tax benefits will be classified as an operating activity, applied prospectively. The adoption of this ASU did not result in a material change in our earnings, cash flows, or financial position.

Stock-based compensation is included in selling, general and administrative costs in our consolidated statements of operations.

The components of stock-based compensation from continuing operations for the years ended December 31, 2017, 2016 and 2015 were as follows:

| | For the Year Ended December 31, | | |
|---|---------------------------------|----------|----------|
| | 2017 | 2016 | 2015 |
| Stock options | \$ 120 | \$ 90 | \$ 194 |
| Restricted stock units | 1,269 | 1,901 | 1,615 |
| Total stock-based compensation expense | 1,389 | 1,991 | 1,809 |
| Tax benefit of stock-based compensation expense | — | — | (696) |
| After-tax effect of stock based compensation | \$ 1,389 | \$ 1,991 | \$ 1,113 |

As of December 31, 2017, there was \$893 of total unrecognized compensation cost related to all non-vested share-based compensation arrangements granted under the Incentive Plan. That cost is expected to be recognized over the remaining requisite service period of 2.8 years.

Stock Options

The stock options granted to employees under the Incentive Plan have a 10-year life and they vest as follows: 50% after the second anniversary of the award date, 25% after the third anniversary, and the final 25% after the fourth anniversary of the award date. Fuel Tech calculates stock compensation expense for employee option awards based on the grant date fair value of the award, less expected annual forfeitures, and recognizes expense on a straight-line basis over the four-year service period of the award. Stock options granted to members of our Board of Directors vest immediately. Stock compensation for these awards is based on the grant date fair value of the award and is recognized in expense immediately.

Fuel Tech uses the Black-Scholes option pricing model to estimate the grant date fair value of employee stock options. The principal variable assumptions utilized in valuing options and the methodology for estimating such model inputs include: (1) risk-free interest rate – an estimate based on the yield of zero-coupon treasury securities with a maturity equal to the expected life of the option; (2) expected volatility – an estimate based on the historical volatility of Fuel Tech’s Common Stock for a period equal to the expected life of the option; and (3) expected life of the option – an

estimate based on historical experience including the effect of employee terminations.

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Based on the results of the model, the weighted-average fair value of the stock options granted during the 12-month periods ended December 31, 2017, 2016 and 2015, respectively, were \$0.68, \$1.11 and \$1.54 per share using the following weighted average assumptions:

| | 2017 | 2016 | 2015 | |
|-------------------------|------------|-----------|-----------|---|
| Expected dividend yield | — | % — | % — | % |
| Risk-free interest rate | 2.33 | % 1.85 | % 2.21 | % |
| Expected volatility | 61.2 | % 62.3 | % 51.6 | % |
| Expected life of option | 10.0 years | 8.8 years | 8.8 years | |

The following table presents a summary of our stock option activity and related information for the years ended December 31:

| | 2017 | | 2016 | | 2015 | |
|--|-------------------|---------------------------------|-------------------|---------------------------------|-------------------|---------------------------------|
| | Number of Options | Weighted-Average Exercise Price | Number of Options | Weighted-Average Exercise Price | Number of Options | Weighted-Average Exercise Price |
| Outstanding at beginning of year | 1,039,750 | \$ 8.39 | 1,191,125 | \$ 10.48 | 1,546,500 | \$ 11.62 |
| Granted | 176,000 | 0.96 | 81,000 | 1.58 | 126,000 | 2.44 |
| Exercised | — | — | — | — | — | — |
| Expired or forfeited | (99,000) | 18.32 | (232,375) | 16.72 | (481,375) | 12.04 |
| Outstanding at end of year | 1,116,750 | \$ 6.34 | 1,039,750 | \$ 8.39 | 1,191,125 | \$ 10.48 |
| Exercisable at end of year | 1,116,750 | \$ 6.34 | 1,039,750 | \$ 8.39 | 1,191,125 | \$ 10.48 |
| Weighted-average fair value of options granted during the year | | \$ 0.68 | | \$ 1.11 | | \$ 1.54 |

The following table provides additional information regarding our stock option activity for the 12 months ended December 31, 2017:

| | Number of Options | Weighted-Average Exercise Price | Weighted-Average Remaining Contractual Life | Aggregate Intrinsic Value |
|----------------------------------|-------------------|---------------------------------|---|---------------------------|
| Outstanding on January 1, 2017 | 1,039,750 | \$ 8.39 | | |
| Granted | 176,000 | 0.96 | | |
| Exercised | — | — | | |
| Expired or forfeited | (99,000) | 18.32 | | |
| Outstanding on December 31, 2017 | 1,116,750 | \$ 6.34 | 4.8 years | \$ 27,280 |
| Exercisable on December 31, 2017 | 1,116,750 | \$ 6.34 | 4.8 years | \$ 27,280 |

The aggregate intrinsic value in the preceding table represents the total pretax intrinsic value, based on our closing stock price of \$1.12 as of December 31, 2017, which would have been received by the option holders had those options holders exercised their stock options as of that date.

The following table summarizes information about stock options outstanding at December 31, 2017:

| Options Outstanding | | | Options Exercisable | | |
|--------------------------|-------------------|---|---------------------------------|-------------------|---------------------------------|
| Range of Exercise Prices | Number of Options | Weighted-Average Remaining Contractual Life | Weighted-Average Exercise Price | Number of Options | Weighted-Average Exercise Price |
| \$ 0.96 - \$6.58 | 707,500 | 6.9 years | \$ 3.02 | 707,500 | \$ 3.02 |
| \$ 6.59 - \$11.59 | 319,250 | 1.6 years | 9.68 | 319,250 | 9.68 |
| \$11.60 - \$16.60 | 20,000 | 0.6 years | 15.42 | 20,000 | 15.42 |

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| | | | | | |
|-------------------|-----------|-----------|---------|-----------|---------|
| \$16.61 - \$21.70 | 15,000 | 0.2 years | 17.82 | 15,000 | 17.82 |
| \$21.71 - \$26.80 | 55,000 | 0.4 years | 23.15 | 55,000 | 23.15 |
| \$ 0.96 - \$26.80 | 1,116,750 | 4.8 years | \$ 6.34 | 1,116,750 | \$ 6.34 |

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Non-vested stock option activity for the 12 months ended December 31, 2017 was as follows:

| | Non-Vested Stock Options Outstanding | Weighted-Average Grant Date Fair Value |
|----------------------------------|---|--|
| Outstanding on January 1, 2017 | — | \$ — |
| Granted | 176,000 | 0.68 |
| Vested | (176,000) | 0.68 |
| Forfeited | — | — |
| Outstanding on December 31, 2017 | — | — |

As of December 31, 2017, there was \$0 of total unrecognized compensation cost related to non-vested stock options granted under the Incentive Plan. Fuel Tech received no proceeds from the exercise of stock options in the years ended December 31, 2017, 2016 and 2015, respectively. It is our policy to issue new shares upon option exercises, loan conversions, and vesting of restricted stock units. We have not used cash and do not anticipate any future use of cash to settle equity instruments granted under share-based payment arrangements.

Restricted Stock Units

Restricted stock units (RSUs) granted to employees vest over time based on continued service (typically vesting over a period between two and four years). Such time-vested RSUs are valued at the date of grant using the intrinsic value method based on the closing price of the Common Shares on the grant date. Compensation cost, adjusted for estimated forfeitures, is amortized on a straight-line basis over the requisite service period.

In addition to the time vested RSUs described above, performance-based RSU agreements (the Agreements) are issued annually to our President/Chief Executive Officer; Senior Vice President, Treasurer/Chief Financial Officer; and Senior Vice President, General Counsel and Corporate Secretary. The Agreements provide each participating executive the opportunity to earn three types of awards with each award type specifying a targeted number of RSUs that may be granted to each executive based on either the individual performance of the executive or our relative performance compared to a peer group, as determined by the award type. The Compensation Committee of our Board of Directors (the Committee) determines the extent to which, if any, RSUs will be granted based on the achievement of the applicable performance criteria specified in the Agreement. This determination will be made following the completion of the applicable performance period (each a Determination Date). Such performance based awards include the following:

The first type of award is based on individual performance during the respective calendar year as determined by the Committee based on performance criteria specified in the Agreement. These awards will vest over a three-year period beginning on the Determination Date. We estimated the fair value of these performance-based RSU awards on the date of the Agreement using the trading price of the Company's stock and our estimate of the probability that the specified performance criteria will be met. The fair value measurement and probability estimate will be re-measured each reporting date until the Determination Date, at which time the final award amount will be known. For these job performance-based awards, we amortize compensation costs over the requisite service period, adjusted for estimated forfeitures, for each separately vesting tranche of the award.

The second type of RSU award contains a targeted number of RSUs to be granted based on our revenue growth relative to a specified peer group during a period of two calendar years. These awards vest 67% on the second anniversary of the Agreement date and 33% on the third anniversary of the Agreement date. We estimated the fair value of these performance-based RSU awards on the Agreement date using the trading price of the Company's stock and our estimate of the probability that the specified performance criteria will be met. For these revenue growth performance-based awards, we amortize compensation costs over the requisite service period, adjusted for estimated forfeitures, for each separately vesting tranche of the award.

The third type of RSU award contains a targeted number of RSUs to be granted based on the total shareholder return (TSR) of our Common Shares relative to a specified peer group during a period of two calendar years. These awards vest 67% on the second anniversary of the Agreement date and 33% on the third anniversary of the Agreement date. We estimated the fair value of these market-based RSU awards on the Agreement date using a Monte Carlo valuation methodology and amortize the fair value over the requisite service period for each separately vesting tranche of the award. The principal variable assumptions utilized in valuing these RSUs under this valuation methodology include the risk-free interest rate, stock volatility and correlations between our stock price and the stock prices of the peer group of companies.

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We recorded expense of approximately \$1,269, \$1,901 and \$1,615 associated with our restricted stock unit awards in 2017, 2016 and 2015, respectively. During the years ended December 31, 2017 and 2016, there were 981,633 and 381,916 restricted stock units that vested with a grant date fair value of \$2,794 and \$1,667, respectively.

A summary of restricted stock unit activity for the years ended December 31, 2017, 2016 and 2015 is as follows:

| | Shares | Weighted Average Grant Date Fair Value |
|--|------------|--|
| Unvested restricted units at January 1, 2015 | 977,069 | 5.36 |
| Granted | 789,500 | 3.33 |
| Forfeited | (209,748) | 4.62 |
| Vested | (351,938) | 5.17 |
| Unvested restricted stock units at December 31, 2015 | 1,204,883 | 4.21 |
| Granted | 845,862 | 1.88 |
| Forfeited | (205,033) | 4.25 |
| Vested | (381,916) | 4.36 |
| Unvested restricted stock units at December 31, 2016 | 1,463,796 | 2.82 |
| Granted | 1,090,000 | 0.97 |
| Forfeited | (213,001) | 2.99 |
| Vested (1) | (981,633) | 2.85 |
| Unvested restricted stock units at December 31, 2017 | 1,359,162 | 1.28 |

(1) The increase in shares vested in 2017 is due to the accelerated vesting of outstanding remaining restricted stock units approved by the Company's Board of Directors on June 28, 2017.

Deferred Directors Fees

In addition to the Incentive Plan, Fuel Tech has a Deferred Compensation Plan for Directors (Deferred Plan). Under the terms of the Deferred Plan, Directors can elect to defer Directors' fees for shares of Fuel Tech Common Stock that are issuable at a future date as defined in the agreement. In accordance with ASC 718, Fuel Tech accounts for these awards as equity awards as opposed to liability awards. In 2017, 2016 and 2015, there was no stock-based compensation expense under the Deferred Plan.

9. COMMITMENTS AND CONTINGENCIES

Fuel Tech is subject to various claims and contingencies related to, among other things, workers compensation, general liability (including product liability), and lawsuits. The Company records liabilities where a contingent loss is probable and can be reasonably estimated. If the reasonable estimate of a probable loss is a range, the Company records the most probable estimate of the loss or the minimum amount when no amount within the range is a better estimate than any other amount. The Company discloses a contingent liability even if the liability is not probable or the amount is not estimable, or both, if there is a reasonable possibility that a material loss may have been incurred. During the fourth quarter of 2017, the Company was notified that, on a project for which the Company served as a subcontractor to a prime contractor, the prime contractor had received notice from the end-user customer in China of its intent to deduct from final payment for the project liquidated damages in the amount of approximately \$920 due to delays in project completion. Thus far, the prime contractor is working to resolve this matter without resorting to litigation. Nevertheless, the matter is in the preliminary stage and we cannot predict the ultimate outcome of this claim or estimate a range of possible losses related to this matter at this time. We intend to pursue all of our rights should the current negotiations not result in a satisfactory resolution of this matter.

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Operating Leases

We lease office space, automobiles and certain equipment under agreements expiring on various dates through 2020. Future minimum lease payments under non-cancellable operating leases that have initial or remaining lease terms in excess of one year as of December 31, 2017 are as follows:

| Year of Payment | Amount |
|-----------------|----------|
| 2018 | \$ 749 |
| 2019 | 713 |
| 2020 | 202 |
| Total | \$ 1,664 |

For the years ended December 31, 2017, 2016 and 2015, rent expense, net of related party sub-lease income, approximated \$902, \$1,006, and \$1,166, respectively.

We are party to a sublease agreement with American Bailey Corporation (ABC) that obligates ABC to reimburse us for its share of lease and lease-related expenses under our February 1, 2010 lease of executive offices in Stamford, Connecticut. Please refer to Note 11 to the consolidated financial statements for a discussion of our relationship with ABC. The future minimum lease income under this non-cancellable sublease as of December 31, 2017 is as follows:

| Year of Payment | Amount |
|-----------------|--------|
| 2018 | \$ 155 |
| 2019 | 155 |
| Total | \$ 310 |

The terms of the Company's seven primary lease arrangements are as follows:

• The Stamford, Connecticut building lease, for approximately 6,440 square feet, runs from February 1, 2010 to December 31, 2019. The facility houses certain administrative functions.

• The Beijing, China building lease, for approximately 9,000 square feet, runs from June 1, 2017 to May 31, 2020. This facility serves as the operating headquarters for our Beijing Fuel Tech operation.

• The Durham, North Carolina building lease, for approximately 2,590 square feet, runs from July 1, 2016 to July 31, 2019. This facility houses engineering operations.

• The Gallarate, Italy building lease, for approximately 1,636 square feet, runs from May 1, 2013 to April 30, 2019. This facility serves as the operating headquarters for our European operations.

• The Westlake, Ohio building lease, for approximately 3,000 square feet, runs from May 1, 2017 to April 30, 2020. This facility houses engineering operations.

• The Aurora, IL warehouse lease, for approximately 11,000 square feet, runs from September 1, 2013 to December 31, 2020. This facility serves as an outside warehouse facility.

• The Overland Park, KS lease, for approximately 600 square feet, runs from October 16, 2015 to October 15, 2018. This facility serves primarily as a sales office.

Performance Guarantees

The majority of Fuel Tech's long-term equipment construction contracts contain language guaranteeing that the performance of the system that is being sold to the customer will meet specific criteria. On occasion, performance surety bonds and bank performance guarantees/letters of credit are issued to the customer in support of the construction contracts as follows:

- in support of the warranty period defined in the contract; or
- in support of the system performance criteria that are defined in the contract.

As of December 31, 2017, we had outstanding bank performance guarantees and letters of credit in the amount of \$3,250 in support of equipment construction contracts that have not completed their final acceptance test or that are still operating under a warranty period. The performance guarantees and letters of credit expire in dates ranging from April 2018 through December 2021. The expiration dates may be extended if the project completion dates are extended. Our management believes it is probable that these projects will be successfully completed and that there will not be a material adverse impact on our operations from these bank performance guarantees and letters of credit. As a result, no liability has been recorded for these performance guarantees.

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Product Warranties

We issue a standard product warranty with the sale of our products to customers. Our recognition of warranty liability is based primarily on analyses of warranty claims experience in the preceding years as the nature of our historical product sales for which we offer a warranty are substantially unchanged. This approach provides an aggregate warranty accrual that is historically aligned with actual warranty claims experienced. Changes in the warranty liability from continuing operations in 2017, 2016 and 2015 are summarized below:

| | 2017 | 2016 | 2015 |
|--|--------|--------|--------|
| Aggregate product warranty liability at beginning of year | \$ 159 | \$ 268 | \$ 268 |
| Net aggregate expense (income) related to product warranties | — | (109) | 8 |
| Aggregate reductions for payments | — | — | (8) |
| Aggregate product warranty liability at end of year | \$ 159 | \$ 159 | \$ 268 |

10. DEBT FINANCING

On June 30, 2015, Fuel Tech amended its existing revolving credit facility (the Facility) with JPMorgan Chase Bank, N.A. (JPM Chase) to extend the maturity date through June 30, 2017. The total availability under the facility was \$15,000 and contained a provision to increase the facility up to a total principal amount of \$25,000 upon approval from JPM Chase. The Facility was unsecured, bears interest at a rate of LIBOR plus 300 basis points, and has the Company's Italian subsidiary, Fuel Tech S.r.l., as a guarantor. Fuel Tech can use this Facility for cash advances and standby letters of credit. As of December 31, 2016 and December 31, 2015, there were no outstanding borrowings on the credit facility.

The Facility contained several debt covenants with which the Company must comply on a quarterly or annual basis. The Facility required a minimum trailing-twelve month EBITDA of \$500 for the quarters ending March 31, 2016 and June 30, 2016; Beginning with the fiscal quarter ended September 30, 2016, the Facility required a minimum EBITDA for the trailing twelve-month period then ended of not less than \$1,000. EBITDA includes after tax earnings with add backs for interest expense, income taxes, depreciation and amortization, stock-based compensation expense, and other non-cash items. This covenant was waived by our bank through the period ending December 31, 2015. In addition, the Facility required a minimum working capital requirement of \$35,000, starting as of December 31, 2015. Finally, the Facility had an annual capital expenditure limit of \$5,000.

On May 9, 2016, the Company amended its existing U.S. Domestic credit facility with JPM Chase such that the financial covenants as set forth in the credit agreement would not be measured for the period ending as of March 31, 2016, and were removed in their entirety from the Facility. The credit availability under the Facility has been reduced from \$15,000 to \$7,000 with this amendment, and further, JPM Chase's then current Revolving Commitment under the Facility is now secured by cash held by the Company in a separate restricted use designated JPM Chase deposit account. The amount of credit available to the Company under the Facility was \$7,000 from the date of the effective date of the amended facility through May 31, 2016, at which time the credit available to the Company under the Facility was reduced to \$6,000 from June 1, 2016 through July 31, 2016, at which time the credit available to the Company under the Facility was reduced to \$5,000 and will remain as such until the Maturity Date of the Facility on June 30, 2017.

On June 16, 2017, the Company amended its existing U.S. Domestic credit facility with JPM Chase to extend the maturity date to June 28, 2019. There are no financial covenants set forth in this amendment to the Facility. The credit availability under the Facility remains at \$5,000 with this amendment, and further, JPM Chase's current Revolving Commitment under the Facility remains secured by cash held by the Company in a separate restricted use designated JPM Chase deposit account. The amount of credit available to the Company under the Facility is \$5,000 and will remain as such until the Maturity Date of the Facility on June 28, 2019. The Company intends to renew the U.S.

Domestic credit facility at its maturity. During the entire period of the Facility the Company must maintain sufficient cash balances in a segregated deposit account equal to the amount of the Facility and has fully pledged such cash as collateral to the bank to support the credit available to the Company under the Facility. As of December 31, 2017 and 2016, there were 0 outstanding borrowings on the credit facility.

At December 31, 2017 and 2016, we had outstanding standby letters of credit and bank guarantees totaling approximately \$3,004 and \$3,292, respectively, on our domestic credit facility in connection with contracts in process. We are committed to reimbursing the issuing bank for any payments made by the bank under these instruments. At December 31, 2017 and 2016, there were no cash borrowings under the domestic revolving credit facility and approximately \$1,996 and \$1,708, respectively, was available for future borrowings. We pay a commitment fee of 0.25% per year on the unused portion of the revolving credit facility.

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On June 16, 2017, Beijing Fuel Tech Environmental Technologies Company, Ltd. (Beijing Fuel Tech), a wholly-owned subsidiary of Fuel Tech, entered into a new revolving credit facility (the China Facility) agreement with JPM Chase for RMB 6.5 million (approximately \$999), which expires on June 29, 2018. The current facility for Beijing Fuel Tech is also secured by cash held by the Company of \$1,020 in a separate restricted use designated JPM Chase deposit account. The Company intends to renew the China Facility at its maturity. This new credit facility replaced the previous RMB 6.5 million facility that expired on June 23, 2017. The facility is unsecured, bears interest at a rate of 125% of the People's Bank of China (PBOC) Base Rate, and is guaranteed by Fuel Tech. Beijing Fuel Tech can use this facility for cash advances and bank guarantees. As of December 31, 2017 and 2016, Beijing Fuel Tech had no cash borrowings under the China Facility.

At December 31, 2017 and 2016, we had outstanding standby letters of credit and bank guarantees totaling approximately \$246 and \$22, respectively, on its Beijing Fuel Tech revolving credit facility in connection with contracts in process. At December 31, 2017 and 2016, approximately \$753 and \$914 was available for future borrowings.

In the event of default on either the domestic facility or the China facility, the cross default feature in each allows the lending bank to accelerate the payments of any amounts outstanding and may, under certain circumstances, allow the bank to cancel the facility. If we were unable to obtain a waiver for a breach of covenant and the bank accelerated the payment of any outstanding amounts, such acceleration may cause our cash position to deteriorate or, if cash on hand were insufficient to satisfy the payment due, may require us to obtain alternate financing to satisfy the accelerated payment.

Subsequent Event

On January 10, 2018, the Company amended its existing U.S. Domestic credit facility with JPM Chase to increase the credit available under the Facility by \$500 to \$5,500 from the effective date of the amendment to August 31, 2018. After August 31, 2018, the amount of credit available under the facility will be reduced to \$5,000 through the maturity date of June 28, 2019. There were no other modifications to the terms of the Facility from the amendment of the facility on June 16, 2017.

11. RELATED PARTY TRANSACTIONS

Persons now or formerly associated with American Bailey Corporation (ABC), including our Chairman, currently own approximately 28% of our outstanding Common Shares. On January 1, 2004, we entered into an agreement whereby ABC reimburses us for services that certain employees provide to ABC. In addition, ABC is a sub-lessee under our February 1, 2010 lease of its offices in Stamford, Connecticut, which runs through December 31, 2019. ABC reimburses us for its share of lease and lease-related expenses under the sublease agreement. The Stamford facility houses certain administrative functions. The amounts earned from ABC related to the subleases for the years ended December 31, 2017, 2016 and 2015, were \$164, \$165 and \$155, respectively. The amount due from ABC related to the sublease agreement was \$13, \$13 and \$14 at December 31, 2017, 2016 and 2015 respectively.

12. DEFINED CONTRIBUTION PLAN

We have a retirement savings plan available for all our U.S. employees who have met minimum length-of-service requirements. Our contributions are determined based upon amounts contributed by the employees with additional contributions made at the discretion of the Board of Directors. Costs related to this plan were \$285, \$376 and \$433 in 2017, 2016 and 2015, respectively.

13. BUSINESS SEGMENT, GEOGRAPHIC AND QUARTERLY FINANCIAL DATA

Business Segment Financial Data

Effective June 28, 2017, the Company has suspended all operations associated with the Fuel Conversion business segment. We now segregate our financial results into two reportable segments representing two broad technology segments as follows:

The Air Pollution Control technology segment includes technologies to reduce NO_x emissions in flue gas from boilers, incinerators, furnaces and other stationary combustion sources. These include Low and Ultra Low NO_x Burners (LNB and ULNB), Over-Fire Air (OFA) systems, NO_xOUT[®] and HERT[™] Selective Non-Catalytic Reduction (SNCR) systems, and Advanced Selective Catalytic Reduction (ASCR)[™] systems. Our ASCR systems include ULNB, OFA, and SNCR components, along with a downsized SCR catalyst, Ammonia Injection Grid (AIG), and Graduated Straightening Grid GSG[™] systems to provide high NO_x reductions at significantly lower capital and operating costs than conventional SCR systems. The NO_xOUT CASCADE[®] and NO_xOUT-SCR[®] processes are more basic, using just SNCR and SCR catalyst components. ULTRA[®] technology creates ammonia at a plant site using safe urea for use with any SCR application. Flue Gas Conditioning systems are chemical injection systems offered in markets outside the U.S. and Canada to enhance electrostatic precipitator and fabric filter performance in controlling particulate emissions.

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The FUEL CHEM® technology segment, which uses chemical processes in combination with advanced CFD and CKM boiler modeling, for the control of slagging, fouling, corrosion, opacity and other sulfur trioxide-related issues in furnaces and boilers through the addition of chemicals into the furnace using TIFI® Targeted In-Furnace Injection™ technology.

The “Other” classification includes those profit and loss items not allocated to either reportable segment. There are no inter-segment sales that require elimination.

We evaluate performance and allocate resources based on gross margin by reportable segment. The accounting policies of the reportable segments are the same as those described in the summary of significant accounting policies. We do not review assets by reportable segment, but rather, in aggregate for the Company as a whole.

Information about reporting segment net sales and gross margin from continuing operations are provided below:

| For the year ended December 31, 2017 | Air Pollution Control Segment | FUEL CHEM Segment | Other | Total |
|--|-------------------------------------|----------------------|------------|------------|
| Revenues from external customers | \$ 27,808 | \$ 17,358 | \$— | \$45,166 |
| Cost of sales | (18,478) | (8,666) | — | (27,144) |
| Gross margin | 9,330 | 8,692 | — | 18,022 |
| Selling, general and administrative | — | — | (20,933) | (20,933) |
| Restructuring charge | (58) | (61) | — | (119) |
| Research and development | — | — | (1,070) | (1,070) |
| Building impairment | — | — | (2,965) | (2,965) |
| Operating income (loss) from continuing operations | \$ 9,272 | \$ 8,631 | \$(24,968) | \$(7,065) |

| For the year ended December 31, 2016 | Air Pollution Control Segment | FUEL CHEM Segment | Other | Total |
|--|-------------------------------------|----------------------|------------|------------|
| Revenues from external customers | \$ 34,052 | \$ 21,109 | \$— | \$55,161 |
| Cost of sales | (25,370) | (10,997) | — | (36,367) |
| Gross margin | 8,682 | 10,112 | — | 18,794 |
| Selling, general and administrative | — | — | (25,564) | (25,564) |
| Restructuring charge | (537) | (891) | — | (1,428) |
| Research and development | — | — | (1,752) | (1,752) |
| Intangible assets impairment | — | — | (2,074) | (2,074) |
| Operating income (loss) from continuing operations | \$ 8,145 | \$ 9,221 | \$(29,390) | \$(12,024) |

| For the year ended December 31, 2015 | Air Pollution Control Segment | FUEL CHEM Segment | Other | Total |
|--|-------------------------------------|----------------------|------------|------------|
| Revenues from external customers | \$ 43,485 | \$ 30,179 | \$— | \$73,664 |
| Cost of sales | (30,612) | (14,495) | — | (45,107) |
| Gross margin | 12,873 | 15,684 | — | 28,557 |
| Selling, general and administrative | — | — | (30,897) | (30,897) |
| Restructuring charge | (149) | (70) | — | (219) |
| Research and development | — | — | (1,447) | (1,447) |
| Intangible assets impairment | (1,425) | — | — | (1,425) |
| Operating income (loss) from continuing operations | \$ 11,299 | \$ 15,614 | \$(32,344) | \$(5,431) |

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Geographic Segment Financial Data

Information concerning our operations by geographic area is provided below. Revenues are attributed to countries based on the location of the customer. Assets are those directly associated with operations of the geographic area.

| For the years ended December 31, | 2017 | 2016 | 2015 |
|----------------------------------|----------|----------|----------|
| Revenues: | | | |
| United States | \$29,510 | \$42,545 | \$51,485 |
| Foreign | 15,656 | 12,616 | 22,179 |
| | \$45,166 | \$55,161 | \$73,664 |

| As of December 31, | 2017 | 2016 |
|--------------------|----------|----------|
| Assets: | | |
| United States | \$29,945 | \$37,684 |
| Foreign | 20,539 | 20,104 |
| | \$50,484 | \$57,788 |

14. FAIR VALUE MEASUREMENTS

We apply authoritative accounting guidance for fair value measurements of financial and nonfinancial assets and liabilities. This guidance defines fair value, establishes a consistent framework for measuring fair value and expands disclosure for each major asset and liability category measured at fair value on either a recurring or nonrecurring basis and clarifies that fair value is an exit price, representing the amount that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants. As such, fair value is a market-based measurement that should be determined based on assumptions that market participants would use in pricing an asset or liability. As a basis for considering such assumptions, the standard establishes a three-tier fair value hierarchy, which prioritizes the inputs used in measuring fair value as follows:

Level 1 – Observable inputs to the valuation methodology such as quoted prices in active markets for identical assets or liabilities

Level 2 – Inputs to the valuation methodology including quoted prices for similar assets or liabilities in active markets, quoted prices for identical assets or liabilities in inactive markets, inputs other than quoted prices that are observable for the asset or liability, and inputs that are derived principally from or corroborated by observable market data by correlation or other means

Level 3 – Significant unobservable inputs in which there is little or no market data, which require the reporting entity to develop its own estimates and assumptions or those expected to be used by market participants. Generally, these fair value measures are model-based valuation techniques such as discounted cash flows, option pricing models, and other commonly used valuation techniques

Transfers between levels of the fair value hierarchy are recognized based on the actual date of the event or change in circumstances that caused the transfer. We had no assets or liabilities that were valued using level 2 or level 3 inputs and therefore there were no transfers between levels of the fair value hierarchy during the periods ended December 31, 2017 and 2016.

The carrying amount of our short-term debt and revolving line of credit approximates fair value due to its short-term nature and because the amounts outstanding accrue interest at variable market-based rates.

The following table summarizes the Company's assets measured at fair value on a non-recurring basis relating to the building impairment charge recognized during the second quarter of 2017, as more fully described in Note 1.

| | Fair Value | | | | |
|----------|------------|---------|---------|-------------------------|----------------------|
| | Level 1 | Level 2 | Level 3 | Impairment at Losses | December 31, 2017 |
| Building | — | — | 7,965 | (2,965) |) 5,000 |
| | — | — | 7,965 | (2,965) |) 5,000 |

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The following table summarizes the Company's assets measured at fair value on a non-recurring basis relating to an intangible assets impairment charge recognized during 2016 primarily related to the customer lists, developed technology and trademarks acquired in the 2014 acquisition of PECO and FGC in the APC technology segment, as more fully described in Note 1.

| | Level 1 | Level 2 | Level 3 | Impairment Losses | Fair Value at December 31, 2016 |
|------------------------------|---------|---------|------------|-------------------|---------------------------------|
| Other intangible assets, net | \$ — | \$ — | \$ (5,525) | \$ (2,074) | \$ 3,451 |
| | \$ — | \$ — | \$ (5,525) | \$ (2,074) | \$ 3,451 |

The following table summarizes the Company's assets measured at fair value on a non-recurring basis relating to an intangible assets impairment charge recognized during 2015 primarily related to the customer lists acquired in the 2014 acquisition of PECO and FGC in the APC technology segment, as more fully described in Note 1.

| | Level 1 | Level 2 | Level 3 | Impairment Losses | Fair Value at December 31, 2015 |
|------------------------------|---------|---------|------------|-------------------|---------------------------------|
| Other intangible assets, net | \$ — | \$ — | \$ (8,569) | \$ (1,425) | \$ 7,144 |
| | \$ — | \$ — | \$ (8,569) | \$ (1,425) | \$ 7,144 |

15. RESTRUCTURING ACTIVITIES

The Company continued to reduce its workforce to better align its organizational infrastructure to its revised operating plans. The Company recorded a charge of \$706 in 2017 in connection with the workforce reduction. This charge included \$581 related to severance and benefit continuation costs due to the suspension of all operations associated with the Fuel Conversion business segment. The Company incurred restructuring charges of \$1,428 for the twelve-months ended December 31, 2016. The following is a reconciliation of the accrual for the workforce reduction that is included within the "Accrued Liabilities" line of the consolidated balance sheets twelve-months ending December 31, 2017.

| | Twelve Months Ended | |
|--|---------------------|---------|
| | 2017 | 2016 |
| Restructuring liability at January 1, | \$309 | \$— |
| Amounts expensed | 125 | 1,428 |
| Amounts expensed - discontinued operations | 581 | — |
| Amounts paid | (624) | (1,119) |
| Restructuring liability at December 31, | \$391 | \$309 |

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16. Unaudited Quarterly Financial Data

Set forth below are the unaudited quarterly financial data for the fiscal years ended December 31, 2017 and 2016.

| For the quarters ended | March 31 | June 30 | September 30 | December 31 |
|--|-----------|-----------|--------------|-------------|
| 2017 | | | | |
| Revenues | \$8,491 | \$9,741 | \$ 13,548 | \$ 13,386 |
| Cost of sales | 4,769 | 6,116 | 8,498 | 7,761 |
| Net income (loss) from continuing operations | (1,776) | (5,585) | (178) | 470) |
| Loss from discontinued operations | (730) | (1,269) | (239) | (1,676) |
| Net loss | (2,506) | (6,854) | (417) | (1,206) |
| Basic net income (loss) per common share: | | | | |
| Continuing operations | (0.07) | (0.24) | (0.01) | 0.02) |
| Discontinued operations | (0.03) | (0.05) | (0.01) | (0.07) |
| Basic net income (loss) per common share: | \$(0.10) | \$(0.29) | \$(0.02) | \$(0.05) |
| Diluted net loss per common share: | | | | |
| Continuing operations | (0.07) | (0.24) | (0.01) | 0.02) |
| Discontinued operations | (0.03) | (0.05) | (0.01) | (0.07) |
| Diluted net loss per common share: | \$(0.10) | \$(0.29) | \$(0.02) | \$(0.05) |
| 2016 | | | | |
| Revenues | \$17,822 | \$15,175 | \$ 12,596 | \$ 9,568 |
| Cost of sales | 11,774 | 9,595 | 7,281 | 7,717 |
| Net loss from continuing operations | (1,950) | (1,801) | (2,389) | (8,448) |
| Loss from discontinued operations | (687) | (827) | (630) | (656) |
| Net loss | (2,637) | (2,628) | (3,019) | (9,104) |
| Basic net loss per common share: | | | | |
| Continuing operations | (0.08) | (0.08) | (0.10) | (0.36) |
| Discontinued operations | (0.03) | (0.03) | (0.03) | (0.03) |
| Basic net loss per common share: | \$(0.11) | \$(0.11) | \$(0.13) | \$(0.39) |
| Diluted net loss per common share: | | | | |
| Continuing operations | (0.08) | (0.08) | (0.10) | (0.36) |
| Discontinued operations | (0.03) | (0.03) | (0.03) | (0.03) |
| Diluted net loss per common share: | \$(0.11) | \$(0.11) | \$(0.13) | \$(0.39) |

ITEM 9 - CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None

ITEM 9A - CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

Under the supervision and with the participation of our Chief Executive Officer and Principal Financial Officer, our management evaluated the effectiveness of the design and operation of our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Exchange Act), as of the end of the period covered by this Annual Report on Form 10-K (the "Evaluation Date"). Based upon that evaluation, our Chief Executive Officer and Principal Financial Officer concluded that, as of the Evaluation Date, our disclosure controls and procedures are effective to ensure that information required to be disclosed in the reports that we file or submit under the Exchange Act is (i) recorded, processed, summarized and reported, within the time periods specified in the Commission's rules and forms and (ii) accumulated and communicated to our management, including our Chief Executive Officer and Principal Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

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Change in Internal Controls

There were no changes in Fuel Tech's internal control over financial reporting during the year to which this report relates that have materially affected, or are reasonably likely to materially affect Fuel Tech's internal control over financial reporting.

Management's Report on Internal Control Over Financial Reporting

Our management is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in Rule 13a-15(f) under the Exchange Act. As required by Rule 13a-15(c) under the Exchange Act, our management has carried out an evaluation, with the participation of the Chief Executive Officer and Principal Financial Officer, of the effectiveness of its internal control over financial reporting as of the end of the last fiscal year. The framework on which such evaluation was based is contained in the report entitled "Internal Control—Integrated Framework" issued by the Committee of Sponsoring Organizations of the Treadway Commission (the "COSO Report") in 2013.

Our system of internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Based on its assessment, management has concluded that we maintained effective internal control over financial reporting as of December 31, 2017, based on criteria in "Internal Control - Integrated Framework" issued by the COSO in 2013.

ITEM 9B - OTHER INFORMATION

On March 8, 2018, the Compensation Committee of the Board adopted Fuel Tech's 2018 Corporate Incentive Plan (the "2018 CIP"), including establishing the financial performance threshold for payout and the percentage of the incentive pool to be paid out to participants in the CIP for 2018. The 2018 CIP provides all U.S. or Canadian based employees (excluding sales personnel) that Fuel Tech designates to participate in the CIP with the opportunity to earn an annual cash bonus based upon employee performance and Fuel Tech's achievement of certain level of operating income as discussed below. As such, Fuel Tech's President and Chief Executive Officer (Vincent J. Arnone), Senior Vice President, General Counsel and Secretary (Albert G. Grigonis) and Vice President, Treasurer and Controller (James M. Pach) are all participants in the 2018 CIP. Potential cash awards under the 2018 CIP are designed to focus employees on the achievement of both positive earnings growth for Fuel Tech as well as on their own individual performance.

The 2018 CIP is structured as follows:

2018 CIP payouts are based on Fuel Tech's ability to realize Operating Income in fiscal 2018. For purposes of the 2018 CIP, "Operating Income" means Fuel Tech's operating income before the impact of incentive pay (but including adjustments to reflect the payment of sales commissions). An "Incentive Pool" may be created dependent on Fuel Tech's obtaining specified levels of Operating Income during the fiscal year. If the Incentive Pool is created, each participant will be awarded his or her designated portion of the Incentive Pool. The simplified focus on Operating Income alone is intended to provide an objective measurement of Fuel Tech's financial performance, to directly tie any 2018 CIP payout to the overall financial performance of Fuel Tech across all business lines, and thus, align the interests of all 2018 CIP participants with the overall financial performance of Fuel Tech.

No amounts will be payable under the 2018 CIP unless Fuel Tech achieves a minimum of \$1 million in Operating Income for fiscal 2018. Accordingly, if Fuel Tech's financial performance for 2018 falls below \$1 million, there will be no payout under the 2018 CIP.

If Fuel Tech generates \$1 million of Operating Income in fiscal 2018, the percentage of Operating Income to be funded into the Incentive Pool will equal 50% of the first \$2 million of Operating Income, 40% of any incremental Operating Income between \$2 million and \$3 million, and 20% of any incremental Operating Income over \$3 million. For example, if Fuel Tech earned \$4.0 million in Operating Income in fiscal 2018, the amount of Operating Income

funded into the Incentive Pool would equal \$1.6 million, consisting of: (a) 50.0% of the Operating Income up to \$2.0 million (\$1 million); (b) 40.0% of the next \$1.0 million in incremental Operating Income in excess of \$2.0 million up to \$3.0 million (\$400,000), plus (b) 20.0% of the \$1.0 million in Operating Income over \$3.0 million (\$200,000). On the other hand, if Fuel Tech earned \$700,000 in Operating Income in fiscal 2018, no amount would be funded into the Incentive Pool because the \$1 million payout threshold would not have been met. The aggregate size of the potential Incentive Pool is restricted only by the level of Fuel Tech's financial performance for fiscal 2018.

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The 2018 CIP contemplates that incentive payments to individual employees will be based on the amount of the Incentive Pool; the employee's 2018 base wages; the employee's target bonus factor (a percentage assigned to each employee based on such employee's job level and contribution) and, for all employees below the level of Senior Vice President, the employee's achievement percentage (an overall job performance multiplier factor that can range from 0% to 100%, and represents the employee's achievement of individual objectives in 2018).

The target bonus factor for Mr. Arnone under the 2018 CIP is 50%, for Mr. Grigonis 40% and for Mr. Pach, 30%. In addition, the 2018 CIP provides that the achievement percentage assigned to Fuel Tech's Principal Executive Officer (Mr. Arnone), Principal Financial Officer (Mr. Pach), and any executive or senior vice president (Mr. Grigonis) will automatically equal 100%. Accordingly, for such officers, payments under the 2018 CIP are formulaic, and do not involve the exercise of any discretion by the Board or Committee regarding such officer's achievement of objectives or any other subjective, qualitative assessments.

The actual amounts of fiscal 2018 cash bonuses earned, if any, for any 2018 Named Executive Officer who is a Participant in the 2018 EOIP will be reported in Fuel Tech's proxy statement for its 2019 Annual Meeting of Stockholders.

On December 6, 2017, the Committee adopted Fuel Tech's 2018 APC and National Sales Manager Commission Plan (the "APC Plan") and 2018 FUEL CHEM® Officer Sales Commission Plan (the "FUEL CHEM" Plan). Each of the APC Plan and the FUEL CHEM Plan provide for sales commission payments to be made to Fuel Tech's Senior Vice President, Sales (William E. Cummings, Jr.).

Under the APC Plan, Fuel Tech will pay to its Senior Vice President, Sales a commission equal to a specified percentage of the as-sold contract value of all sales of products and services in Fuel Tech's APC product line in the United States and Canada.

The FUEL CHEM Plan provides for sales commission payments to be made to Fuel Tech's Senior Vice President, Sales. Under the FUEL CHEM Plan, Fuel Tech will pay to such officer a commission equal to a specified percentage of all net revenue realized for customer units located in the United States and Canada.

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PART III

ITEM 10 – DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Information required by this Item will be set forth under the captions “Election of Directors,” “Directors and Executive Officers of Fuel Tech,” “Compensation Committee,” “Audit Committee,” and “Financial Experts” in our definitive Proxy Statement related to the 2018 Annual Meeting of Stockholders (the “Proxy Statement”) and is incorporated by reference. We have adopted a Code of Ethics and Business Conduct (the “Code”) that applies to all employees, officers and directors, including the Chief Executive Officer, Principal Financial Officer and Controller. A copy of the Code is available free of charge to any person on written or telephone request to our Legal Department at the address or telephone number described in Item 1 under the heading “Available Information.” The Code is also available on our website at www.ftek.com.

Other information concerning our directors and executive officers and relating to corporate governance will be set forth under the captions “Election of Directors,” “Audit Committee,” “Compensation and Nominating Committee,” “Financial Experts,” “Corporate Governance” and “General” in our Proxy Statement related to the 2018 Annual Meeting of Stockholders and is incorporated by reference.

ITEM 11 - EXECUTIVE COMPENSATION

Information required by this Item will be set forth under the caption “Executive Compensation” in our definitive Proxy Statement and is incorporated by reference.

ITEM 12 - SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The following table provides information for all equity compensation plans as of the fiscal year ended December 31, 2017, under which our securities were authorized for issuance:

| Plan Category | Number of Securities to be issued upon exercise of outstanding options and vesting of restricted stock units | Weighted-average exercise price of outstanding options | Number of securities remaining available for future issuance under equity compensation plan excluding securities listed in column (a) |
|--|--|--|---|
| | (a) | (b) | (c) |
| Equity compensation plans approved by security holders (1) | 2,475,912 | \$ 6.34 | 404,941 |

(1) Includes Common Shares of Fuel Tech, Inc. authorized for awards under Fuel Tech’s 2014 Long-Term Incentive Plan adopted in May of 2014.

In addition to the plans listed above, we have a Deferred Compensation Plan for directors under which 100,000 Common Shares have been reserved for issuance as deferred compensation with respect to director's fees. Further information required by this Item will be set forth under the caption “Principal Stockholders and Stock Ownership of Management” in the definitive Proxy Statement and is incorporated by reference.

ITEM 13 - CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

Information required by this Item will be set forth under the captions “Compensation Committee Interlocks and Insider Participation” and “Certain Relationships and Related Transactions” in our definitive Proxy Statement and is incorporated by reference.

ITEM 14 - PRINCIPAL ACCOUNTANT FEES AND SERVICES

Information required by this Item will be set forth under the caption “Approval of Appointment of Auditors” in our definitive Proxy Statement and is incorporated by reference.

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PART IV

ITEM 15 - EXHIBITS AND FINANCIAL STATEMENT SCHEDULES

(a)(1) Financial Statements

The financial statements identified below and required by Part II, Item 8 of this Form 10-K are set forth above.

Management's Report on Internal Control Over Financial Reporting

Report of Independent Registered Public Accounting Firm

Consolidated Balance Sheets as of December 31, 2017 and 2016

Consolidated Statements of Operations for Years Ended December 31, 2017, 2016 and 2015

Consolidated Statements of Comprehensive (Loss) Income for Years Ended December 31, 2017, 2016 and 2015

Consolidated Statements of Stockholders' Equity for the Years Ended December 31, 2017, 2016 and 2015

Consolidated Statements of Cash Flows for the Years Ended December 31, 2017, 2016 and 2015

Notes to Consolidated Financial Statements

(2) Financial Statement Schedules

All other schedules have been omitted because of the absence of the conditions under which they are required or because the required information, where material, is shown in the financial statements or the notes thereto.

(3) Exhibits

| Exhibit Description | Incorporated by Reference | | | |
|--|---------------------------|------|------------------|---------------------------|
| | Filed Herewith | Form | Period ending | Exhibit Filing date |
| 3.1 <u>Certificate of Incorporation of Fuel Tech, Inc.</u> | | 8-K | | 3.2 10/5/2006 |
| 3.2 <u>Certificate of Conversion of Fuel Tech, Inc.</u> | | 8-K | | 3.1 10/5/2006 |
| 3.3 <u>Amended and Restated By-Laws of Fuel Tech, Inc. dated as of May 28, 2015</u> | | 8-K | | 3.1 6/1/2015 |
| 4.1 <u>Instrument Constituting US \$19,200,000 Nil Coupon Non-Redeemable Convertible Unsecured Loan Notes of Fuel-Tech N.V., dated December 21, 1989</u> | | 10-Q | 9/30/2009 | 4.1 11/4/2009 |
| 4.2 <u>First Supplemental Instrument Constituting US \$3,000 Nil Coupon Non-Redeemable Convertible Unsecured Loan Notes of Fuel-Tech N.V., dated July 10, 1990</u> | | 10-Q | 9/30/2009 | 4.2 11/4/2009 |
| 4.3 <u>Instrument Constituting US \$6,000 Nil Coupon Non-Redeemable Convertible Unsecured Loan Notes of Fuel-Tech N.V., dated March 12, 1993</u> | | 10-Q | 9/30/2009 | 4.3 11/4/2009 |
| 4.4* <u>Fuel Tech, Inc. Incentive Plan as amended through June 3, 2004</u> | | S-8 | | 4.1 10/2/2006 |
| 4.5* <u>Fuel Tech, Inc. 2014 Long-Term Incentive Plan</u> | | S-8 | | 4.1 3/31/2014 |
| 4.6* <u>Fuel Tech, Inc. Form of Non-Executive Director Stock Option Agreement</u> | | 10-K | 12/31/2006 | 4.6 3/6/2007 |
| 4.7 <u>Fuel Tech, Inc. Form of 2014 Long-Term Incentive Plan Non-Employee Director's Stock Option Agreement</u> | | 10-Q | 6/30/2014 | 4.2 8/11/2014 |
| 4.8* <u>Fuel Tech, Inc. Form of Non-Qualified Stock Option Agreement</u> | | 10-K | 12/31/2006 | 4.7 3/6/2007 |
| 4.9* <u>Fuel Tech, Inc. Form of Incentive Stock Option Agreement</u> | | 10-K | 12/31/2006 | 4.8 3/6/2007 |
| 4.10* <u>Fuel Tech, Inc. Form of Revised Restricted Stock Unit Agreement</u> | | 10-K | 12/31/2011 | 4.9 3/5/2012 |
| 4.11* | | 10-Q | 6/30/2014 | 4.1 8/11/2014 |

| | | | | |
|-------|--|------|------------|----------------|
| | <u>Fuel Tech, Inc. Form of Restricted Stock Unit Agreement (2014 Long-Term Incentive Plan)</u> | | | |
| 4.12* | <u>Fuel Tech, Inc. Form of 2014 Long-Term Incentive Plan Stock Option Agreement</u> | 10-Q | 3/31/2015 | 10.2 5/11/2015 |
| 4.13* | <u>Fuel Tech, Inc. Form of 2016 Executive Performance RSU Award Agreement</u> | 10-K | 12/31/2015 | 4.17 3/24/2016 |

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|--------|---|------|------------|-------|------------|
| 10.1** | License Agreement dated November 18, 1998 between The Gas Technology Institute and Fuel Tech, Inc. relating to the FLGR Process. | 10-K | 12/31/1999 | 3.3 | 3/30/2000 |
| 10.2** | Amendment No. 1, dated February 28, 2000, to License Agreement dated November 18, 1998 between The Gas Technology Institute and Fuel Tech, Inc. relating to the FLGR Process. | 10-K | 12/31/1999 | 3.3 | 3/30/2000 |
| 10.3 | <u>Form of Indemnity Agreement between Fuel Tech, Inc. and its Directors and Officers.</u> | 8-K | | 99.1 | 2/7/2007 |
| 10.4** | <u>Restated Supply Agreement, dated March 4, 2009, between Fuel Tech, Inc. and Martin Marietta Magnesia Specialties, LLC.</u> | 10-K | 12/31/2008 | 10.7 | 3/5/2009 |
| 10.5 | <u>Amendment No. 1 to Restated Supply Agreement, dated October 31, 2013, between Fuel Tech, Inc. and Martin Marietta Magnesia Specialties, Inc.</u> | 10-Q | 9/30/2013 | 10.1 | 11/13/2013 |
| 10.6 | <u>Stock Purchase Agreement, dated April 28, 2014, between Lawrence Ekey and Fuel Tech, Inc.</u> | 10-Q | 3/31/2014 | 10.1 | 5/12/2014 |
| 10.7 | <u>Credit Agreement, dated as of June 30, 2009, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | 10-Q | 9/30/2009 | 10.5 | 11/4/2009 |
| 10.8 | <u>First Amendment to Credit Agreement, dated as of October 5, 2009, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | 10-Q | 9/30/2009 | 10.6 | 11/4/2009 |
| 10.9 | <u>Second Amendment to Credit Agreement, dated as of November 4, 2009, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | 10-Q | 9/30/2009 | 10.7 | 11/4/2009 |
| 10.10 | <u>Third Amendment to Credit Agreement, dated as of June 30, 2011, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | 10-Q | 6/30/2011 | 4.1 | 8/8/2011 |
| 10.11 | <u>Fourth Amendment to Credit Agreement, dated as of June 30, 2013, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | 10-Q | 6/30/2013 | 4.1 | 8/7/2013 |
| 10.12 | <u>Fifth Amendment to Credit Agreement, dated as of June 16th, 2015, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | 10-K | 12/31/2015 | 10.12 | 3/24/2015 |
| 10.13 | <u>Sixth Amendment to Credit Agreement, dated as of June 30, 2015, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | 10-Q | 6/30/2015 | 10.2 | 8/10/2015 |
| 10.14 | <u>Seventh Amendment to Credit Agreement, dated as of December 31, 2015, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | 10-K | 12/31/2015 | 10.14 | 3/24/2015 |
| 10.15 | <u>Eight Amendment to Credit Agreement, dated as of May 9, 2016, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | 10-Q | 3/31/2016 | 10.1 | 5/10/2016 |
| 10.16 | <u>Ninth Amendment to Credit Agreement, dated as of June 16, 2017, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | 10-Q | 6/30/2017 | 10.1 | 8/14/2017 |
| 10.17 | <u>Tenth Amendment to Credit Agreement, dated as of January 10, 2018, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | X | | | |
| 10.18 | <u>Cash Collateral Pledge Agreement, dated as of May 27, 2016, between JPMorgan Chase Bank, N.A. and Fuel Tech, Inc.</u> | 10-Q | 6/30/2016 | 10.1 | 8/9/2016 |
| 10.19 | <u>Sublease Agreement, dated December 9, 2009, between Fuel Tech, Inc. and American Bailey Corporation</u> | 10-K | 12/31/2009 | 10.14 | 3/4/2010 |
| 10.20* | <u>2015 Executive Officer Incentive Plan of Fuel Tech, Inc.</u> | 10-Q | 3/31/2015 | 10.1 | 5/11/2015 |
| 10.22* | <u>2016 Executive Officer Plan of Fuel Tech, Inc.</u> | 10-K | 12/31/2016 | 10.18 | 3/24/2015 |
| 10.23* | <u>2017 Executive Officer Plan of Fuel Tech, Inc.</u> | X | | | |
| 10.24* | <u>2016 Corporate Incentive Plan of Fuel Tech, Inc.</u> | 10-K | 12/31/2016 | 10.19 | 3/24/2015 |
| 10.25* | <u>2018 Corporate Incentive Plan of Fuel Tech, Inc.</u> | X | | | |

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| 10.26* | <u>2017 Fuel Tech, Inc. FUEL CHEM Officer Sales Commission Plan</u> | | | | | | | | X |
| 10.27* | <u>2018 Fuel Tech, Inc. FUEL CHEM Officer Sales Commission Plan</u> | | | | | | | | X |
| 10.28* | <u>2017 Fuel Tech, Inc. APC Officer and NSM Sales Commission Plan</u> | | | | | | | | X |
| 10.29* | <u>2018 Fuel Tech, Inc. APC Officer and NSM Sales Commission Plan</u> | | | | | | | | X |
| 10.30* | <u>Employment Agreement, dated August 2, 2010, between David S. Collins and Fuel Tech, Inc.</u> | | 10-Q | 6/30/2010 | 10.1 | | | 8/9/2010 | |
| 10.32* | <u>Employment Agreement dated August 31, 2009, between William E. Cummings, Jr. and Fuel Tech, Inc.</u> | | 10-K | 12/31/2009 | 10.10 | | | 3/14/2010 | |
| 10.33* | <u>Employment Agreement, dated September 20, 2010 between Vincent J. Arnone and Fuel Tech, Inc.</u> | | 10-K | 12/31/2011 | 10.21 | | | 3/5/2012 | |
| 10.34* | <u>Employment Agreement, dated July 13, 2003, between Albert G. Grigonis and Fuel Tech, Inc.</u> | | 10-K | 12/31/2013 | 10.21 | | | 3/10/2014 | |
| 10.35* | <u>Employment Agreement, dated March 9, 2018, between James M. Pach and Fuel Tech, Inc.</u> | | | | | | | | X |
| 23.1 | <u>Consent of Independent Registered Public Accounting Firm.</u> | | | | | | | | X |
| 31.1 | <u>Certifications of Chief Executive Officer Pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u> | | | | | | | | X |
| 31.2 | <u>Certifications of principal financial officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002.</u> | | | | | | | | X |
| 32 | <u>Certification of Chief Executive Officer and principal financial officer pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.</u> | | | | | | | | X |
| 101.1 | INS XBRL Instance Document. | | | | | | | | |
| 101.2 | SCH XBRL Taxonomy Extension Schema Document. | | | | | | | | |
| 101.3 | CAL XBRL Taxonomy Extension Calculation Linkbase Document. | | | | | | | | |
| 101.4 | DEF XBRL Taxonomy Extension Definition Linkbase Document. | | | | | | | | |
| 101.5 | LAB XBRL Taxonomy Extension Label Linkbase Document. | | | | | | | | |
| 101.6 | PRE XBRL Taxonomy Extension Presentation Linkbase Document. | | | | | | | | |

* Indicates a management contract or compensatory plan or arrangement.
** Portions of this document have been omitted pursuant to a request for confidential treatment and the omitted information has been filed separately with the Securities and Exchange Commission.

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SIGNATURES AND CERTIFICATIONS

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

FUEL TECH, INC.

Date: March 12, 2018 By: /s/ Vincent J. Arnone

Vincent J. Arnone
President and Chief Executive Officer
(Principal Executive Officer)

Date: March 12, 2018 By: /s/ James M. Pach

James M. Pach
Vice President, Treasurer and Controller
(Principal Financial Officer)

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Pursuant to the requirements of the Securities and Exchange Act of 1934, this report has been duly signed below by the following persons on behalf of Fuel Tech, Inc. and in the capacities and on the date indicated.

Date: March 12, 2018

| Signature | Title |
|--|---|
| /s/ Vincent J. Arnone Vincent J. Arnone | President and Chief Executive Officer (Principal Executive Officer) |
| /s/ James M. Pach James M. Pach | Vice President, Treasurer and Controller (Principal Financial Officer) |
| /s/ Douglas G. Bailey Douglas G. Bailey | Director |
| /s/ Thomas S. Shaw, Jr. Thomas S. Shaw, Jr. | Director |
| /s/ Dennis L. Zeitler Dennis L. Zeitler | Director |
| /s/ James J. Markowsky, Ph.D. James J. Markowsky, Ph.D. | Director |