

TETRA TECHNOLOGIES INC
Form S-3
April 12, 2019

As filed with the Securities and Exchange Commission on April 11, 2019

Registration No. 333-

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM S-3

REGISTRATION STATEMENT

UNDER

THE SECURITIES ACT OF 1933

TETRA Technologies, Inc.

(Exact name of registrant as specified in its charter)

Delaware 74-2148293
(State or other jurisdiction of (I.R.S. Employer
incorporation or organization) Identification No.)

Bass C. Wallace, Jr.

General Counsel

TETRA Technologies, Inc.

24955 Interstate 45 North

24955 Interstate 45 North

The Woodlands, Texas 77380

The Woodlands, Texas 77380

(281) 367-1983

(281) 367-1983

(Address, including zip code, and telephone number,
including area

(Name, address, including zip code, and telephone
number,

code, of registrant's principal executive offices)

including area code, of agent for service)

Copy to:

William C. McDonald

Matthew L. Fry

Haynes and Boone, LLP

Haynes and Boone, LLP

10001 Woodloch Forest, Suite 200

2323 Victory Ave, Suite 700

The Woodlands, Texas 77380

Dallas, Texas 75219

(713) 547-2100

(214) 651-5000

Approximate date of commencement of proposed sale to the public: From time to time after the effective date of this Registration Statement, as determined in light of market conditions and other factors.

If the only securities being registered on this Form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.

If this Form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b) under the Securities Act, check the following box.

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

Large accelerated filer	Accelerated filer
Non-accelerated filer	Smaller reporting company
	Emerging Growth Company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 7(a)(2)(B) of the Securities Act.

CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities to be Registered	Amount to be Registered	Proposed Maximum	Proposed Maximum	Amount of Registration Fee
		Offering Price Per Unit (1)	Aggregate Offering Price	
Common Stock of TETRA Technologies, Inc. (2) (3)				
Preferred Stock of TETRA Technologies, Inc. (2) (3)				
Senior Debt Securities of TETRA Technologies, Inc. (2) (3)				
Subordinated Debt Securities of TETRA Technologies, Inc. (2) (3)				

Warrants of TETRA Technologies, Inc. (2) (3)				
Rights of TETRA Technologies, Inc. (2) (3)				
Units of TETRA Technologies, Inc. (2) (3)				
Common Stock of TETRA Technologies, Inc. issuable upon exercise of outstanding warrants (3) (4)	11,155,000	\$5.75	\$64,141,250	
Total			\$464,141,250	\$51,708 (4) (5)

- (1) Except with respect to common stock issuable upon the exercise of Prior Warrants (as defined below) issued pursuant to the Prior Registration Statement (as defined below), the proposed maximum aggregate offering price per class of security pursuant to this registration statement will be determined from time to time by the registrant in connection with the issuance by the registrant of the securities registered hereunder and is not specified as to each class of security pursuant to General Instruction II.D. of Form S-3 under the Securities Act of 1933, as amended (the "Securities Act").
- (2) There are being registered hereunder such indeterminate number of shares of common stock and preferred stock, such indeterminate principal amount of debt securities, such indeterminate number of warrants and rights to purchase common stock, preferred stock or debt securities, and such indeterminate number of units, as shall have an aggregate initial offering price not to exceed \$400,000,000. If any debt securities are issued at an original issue discount, then the offering price of such debt securities shall be in such greater principal amount as shall result in an aggregate initial offering price not to exceed \$400,000,000, less the aggregate dollar amount of all securities previously issued hereunder. Any securities registered hereunder may be sold separately or as units with other securities registered hereunder. The securities registered also include such indeterminate number of shares of common stock and preferred stock and amount of debt securities as may be issued upon conversion of or exchange for preferred stock or debt securities that provide for conversion or exchange or upon exercise of warrants or rights pursuant to the anti-dilution provisions of any such securities. In addition, pursuant to Rule 416 under the Securities Act, the shares being registered hereunder include such indeterminate number of shares of common stock and preferred stock as may be issuable with respect to the shares being registered hereunder as a result of stock splits, stock dividends or similar transactions.
- (3) Pursuant to Rule 415(a)(6) under the Securities Act, the securities registered pursuant to this registration statement include certain unsold securities previously registered on the registrant's registration statement on Form S-3 (File Number 333-210335) originally filed with the Securities and Exchange Commission on March 23, 2016 and declared effective on April 13, 2016 (the "Prior Registration Statement"). The Prior Registration Statement registered the offer and sale of an indefinite number of shares of common and preferred stock, subordinated and senior debt securities, warrants, rights and units with an aggregate

initial offering price not to exceed \$400,000,000, of which \$221,853,500 remains unsold, consisting of: (i) 11,155,000 shares of common stock issuable upon exercise of the warrants with an aggregate exercise price of \$64,141,250 (the “Prior Warrants”) and (ii) \$157,712,250 of unallocated securities (together the “Unsold Securities”), as of the date of filing this registration statement. Pursuant to Rule 415(a)(6) under the Securities Act, the filing fee of \$22,342 relating to the Unsold Securities under the Prior Registration Statement will continue to be applied to such securities registered pursuant to this registration statement. To the extent that, after the filing date hereof and prior to the effectiveness of this registration statement, the registrant sells any Unsold Securities pursuant to the Prior Registration Statement, the registrant will identify in a pre-effective amendment to this registration statement the updated amount of Unsold Securities being carried over from the Prior Registration Statement to be included in this registration statement pursuant to Rule 415(a)(6). Pursuant to Rule 415(a)(6), the offering of the Unsold Securities under the Prior Registration Statement will be deemed terminated as of the date of effectiveness of this registration statement. A filing fee of \$29,366 with respect to the new securities registered hereunder is being paid in connection with the filing of this registration statement.

(4) Represents shares of common stock underlying and issuable upon exercise of the Prior Warrants issued pursuant to the Prior Registration Statement.

(5) With respect to this registration statement, the registration fee has been calculated in accordance with Rule 457(o) under the Securities Act and, with respect to the Unsold Securities, also pursuant to Rule 415(a)(6).

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with section 8(a) of the Securities Act of 1933 or until the registration statement shall become effective on such date as the Commission acting pursuant to said section 8(a), may determine.

EXPLANATORY NOTE

This registration statement contains two prospectuses:

• a base prospectus which covers the offer, issuance and sale of such indeterminate number of shares of common stock and preferred stock, such indeterminate principal amount of debt securities, such indeterminate number of warrants and rights to purchase common stock, preferred stock or debt securities, and such indeterminate number of units, as shall have an aggregate initial offering price not to exceed \$400,000,000;

• a prospectus which covers the offer, issuance and sale of up to 11,155,000 shares of common stock issuable upon exercise of warrants outstanding as of April 11, 2019.

The base prospectus immediately follows this explanatory note. The specific terms of any securities to be offered pursuant to the base prospectus will be specified in a prospectus supplement to the base prospectus.

The warrant exercise prospectus immediately follows the base prospectus.

The information in this prospectus is not complete and may be changed. This prospectus is not an offer to sell these securities, and we are not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

Subject to completion, dated April 11, 2019

PROSPECTUS

\$400,000,000

TETRA Technologies, Inc.

COMMON STOCK

PREFERRED STOCK

SENIOR DEBT SECURITIES

SUBORDINATED DEBT SECURITIES

WARRANTS

RIGHTS

UNITS

By this prospectus, we may from time to time offer and sell in one or more offerings any combination of the following securities:

- shares of common stock;
- shares of preferred stock, which may be convertible into or exchangeable for debt securities or common stock;
- senior debt securities, which may be convertible into or exchangeable for common stock or preferred stock;
- subordinated debt securities, which may be convertible into or exchangeable for common stock or preferred stock;
- warrants to purchase common stock, preferred stock, debt securities, rights or units;
- rights to purchase common stock, preferred stock, debt securities, warrants or units; and/or
- units consisting of any combination of common stock, preferred stock, debt securities, warrants or rights.

This prospectus provides a general description of the securities we may offer. Supplements to this prospectus will provide the specific terms of the securities that we actually offer, including the offering prices. You should carefully read this prospectus, any applicable prospectus supplement and any information under the headings “Where You Can Find More Information” and “Incorporation by Reference” before you invest in any of these securities. This prospectus may not be used to sell securities unless it is accompanied by a prospectus supplement that describes those securities.

We may sell these securities to or through underwriters, dealers, to other purchasers and/or through agents. Supplements to this prospectus will specify the names of any underwriters or agents.

Our common stock is listed and traded on the New York Stock Exchange under the symbol “TTI.” The last reported sale price of our common stock as reported on the New York Stock Exchange on April 10, 2019 was \$2.54 per share.

Investing in our securities involves risks. Please read “Risk Factors” on page 3 of this prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is _____, 2019.

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ABOUT THIS PROSPECTUS

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or SEC, utilizing a “shelf” registration process. Under this shelf registration process, we may offer and sell any combination of the securities described in this prospectus in connection with one or more offerings from time to time.

This prospectus provides you with a general description of the securities we may offer. Each time we offer to sell securities, we will provide a prospectus supplement and, if applicable, a pricing supplement that will contain specific information about the terms of that offering and the securities offered by us in that offering. The prospectus supplement and any pricing supplement may also add, update or change information contained in this prospectus. If there is any inconsistency between the information in this prospectus and any prospectus supplement or pricing supplement, you should rely on the information provided in the prospectus supplement and any pricing supplement. This prospectus does not contain all of the information included in the registration statement. The registration statement filed with the SEC includes exhibits that provide more details about the matters discussed in this prospectus. You should carefully read this prospectus, the related exhibits filed with the SEC and any prospectus supplement and any pricing supplement, together with the additional information described below under the headings “Where You Can Find More Information” and “Incorporation by Reference.”

You should rely only on the information contained or incorporated by reference in this prospectus and in any accompanying prospectus supplement and any pricing supplement. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. We are not making an offer of the securities covered by this prospectus in any jurisdiction where the offer is not permitted. You should assume that the information appearing in this prospectus, any prospectus supplement and pricing supplement and any other document incorporated by reference is accurate only as of the date on the front cover of those documents. Our business, financial condition, results of operations and prospects may have changed since those dates.

Under no circumstances should the delivery to you of this prospectus create any implication that the information contained in this prospectus is correct as of any time after the date of this prospectus.

This prospectus may not be used to sell securities unless it is accompanied by a prospectus supplement that describes those securities.

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Unless otherwise indicated or unless the context otherwise requires, all references in this prospectus to “TETRA,” “TETRA Technologies,” “registrant,” “our company,” “we,” “our,” “us” or similar references mean TETRA Technologies, Inc. and its consolidated subsidiaries. In this prospectus, we sometimes refer to the debt securities, common stock, preferred stock, warrants, rights and units collectively as the “securities.”

INCORPORATION BY REFERENCE

The SEC allows us to “incorporate by reference” information into this document. This means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information incorporated by reference is considered to be part of this prospectus. We incorporate by reference the documents listed below, other than any portions of the respective filings that were furnished (pursuant to Item 2.02 or Item 7.01 of current reports on Form 8-K or other applicable SEC rules) rather than filed:

- our Annual Report on Form 10-K for the year ended December 31, 2018, filed with the SEC on March 4, 2019;
- the information specifically incorporated by reference into such Annual Report on Form 10-K from our definitive proxy statement on Schedule 14A filed with the SEC on March 21, 2019;
- our Current Reports on Form 8-K, filed with the SEC on February 25, 2019 and March 27, 2019; and
- the description of our common stock contained in our registration statement on Form 8-A filed with the SEC on October 7, 1997, including any amendments and reports filed for the purpose of updating such description.

All documents that we file pursuant to Section 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended, which we refer to as the Exchange Act, after the date of this prospectus and until our offerings hereunder are completed will be deemed to be incorporated by reference into this prospectus and will be a part of this prospectus from the date of the filing of the document. Any statement contained in a document incorporated or deemed to be incorporated by reference in this prospectus will be deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained in this prospectus or in any other subsequently filed document that also is or is deemed to be incorporated by reference in this prospectus modifies or supersedes that statement. Any statement that is modified or superseded will not constitute a part of this prospectus, except as modified or superseded.

We will provide to each person, including any beneficial owner to whom a prospectus is delivered, a copy of these filings, other than an exhibit to these filings, unless we have specifically incorporated that exhibit by reference into the filing, upon written or oral request and at no cost. Requests should be made by writing or telephoning us at the following address:

TETRA Technologies, Inc.

24955 Interstate 45 North

The Woodlands, Texas 77380

(281) 367-1983

Attn: Investor Relations

WHERE YOU CAN FIND MORE INFORMATION

We have filed a registration statement with the SEC under the Securities Act of 1933, as amended, which we refer to as the Securities Act, that registers the issuance and sale of the securities offered by this prospectus. The registration statement, including the attached exhibits, contains additional relevant information about us. The rules and regulations of the SEC allow us to omit some information included in the registration statement from this prospectus.

We file annual, quarterly, and other reports, proxy statements and other information with the SEC under the Exchange Act. Such reports, proxy statements and other information, including the Registration Statement, and exhibits and schedules thereto, are available to the public through the SEC's website at <http://www.sec.gov>.

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General information about us, including our annual reports on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K, as well as any amendments and exhibits to those reports, are available free of charge through our website at <http://www.tetrathec.com> as soon as reasonably practicable after we file them with, or furnish them to, the SEC. Information on our website is not incorporated into this prospectus or our other securities filings and is not a part of this prospectus.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

Some information contained in this prospectus, any prospectus supplement and in the documents we incorporate by reference herein and therein may contain certain statements (other than statements of historical fact) that constitute “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Such forward-looking statements include, but are not limited to, statements concerning such things as recognition of backlog, our level of capital, cash flow, capital expenditures, current debt and equity market conditions, tax impacts, technological systems, insurance coverage, alternative suppliers, sales levels, personnel, regulatory requirements, intellectual property, growth opportunities and oil and natural gas prices, and can generally be identified by the use of words such as “anticipates,” “assumes,” “believes,” “budgets,” “could,” “estimates,” “expects,” “forecasts,” “goal,” “intends,” “may,” “might,” “plans,” “predicts,” “projects,” “schedules,” “seeks,” “should,” “target,” “would” or similar expressions that convey the uncertainty of future events, activities, expectations or outcomes. However, these are not the exclusive means of identifying forward-looking statements.

Where any forward-looking statement includes a statement of the assumptions or bases underlying such forward-looking statement, we caution that, while we believe these assumptions or bases to be reasonable and to be made in good faith, assumed facts or bases almost always vary from actual results, and the difference between assumed facts or bases and actual results could be material, depending on the circumstances. It is important to note that actual results could differ materially from those projected by such forward-looking statements.

Although we believe that the expectations in our forward-looking statements are reasonable, we cannot give any assurance that those expectations will be correct. Our operations are subject to numerous uncertainties, risks and other influences, many of which are outside our control and any of which could materially affect our results of operations and ultimately prove the statements we make to be inaccurate.

Factors that could cause our results to differ materially from the results discussed in such forward-looking statements include, but are not limited to, the following:

- economic and operating conditions that are outside of our control, including the supply, demand, and prices of oil and natural gas;
- the availability of adequate sources of capital to us;
- the levels of competition we encounter;
- the activity levels of our customers;
- our operational performance;
- the availability of raw materials and labor at reasonable prices;
- risks related to acquisitions and our growth strategy;
- restrictions under our debt agreements and the consequences of any failure to comply with debt covenants;
- the effect and results of litigation, regulatory matters, settlements, audits, assessments, and contingencies;
- risks related to our foreign operations;
- information technology risks including the risk from cyberattack; and

Other risks and uncertainties under “Item 1A. Risk Factors” in our Annual Report on Form 10-K for the year ended December 31, 2018, those set forth in Item 1A “Risk Factors” in our Quarterly Reports on Form 10-Q, and as included in our other filings with the U.S. Securities and Exchange Commission, or the SEC, which are available free of charge on the SEC website at www.sec.gov.

The risks and uncertainties referred to above are generally beyond our ability to control and we cannot predict all the risks and uncertainties that could cause our actual results to differ from those indicated by the forward-looking statements. If any of these risks or uncertainties materialize, or if any of the underlying assumptions prove incorrect, actual results may vary from those indicated by the forward-looking statements, and such variances may be material.

All subsequent written and oral forward-looking statements made by or attributable to us or to persons acting on our behalf are expressly qualified in their entirety by reference to these risks and uncertainties. You should not place undue reliance on forward-looking statements. Each forward-looking statement speaks only as of the date of the particular statement, and we undertake no obligation to update or revise any forward-looking statements we may make, except as may be required by law.

SUMMARY

This summary highlights selected information contained elsewhere in this prospectus or incorporated by reference in this prospectus and does not contain all of the information that you need to consider in making your investment decision. You should carefully read the entire prospectus, the applicable prospectus supplement and any related free writing prospectus, including the risks of investing in our securities discussed under the heading “Risk Factors” contained in the applicable prospectus supplement and any related free writing prospectus, and under similar headings in the other documents that are incorporated by reference into this prospectus. You also should carefully read the information incorporated by reference into this prospectus, including our financial statements, and the exhibits to the registration statement of which this prospectus is a part.

Overview

We are a geographically diversified oil and gas services company, focused on completion fluids and associated products and services, comprehensive water management, frac flowback, production well testing and offshore rig cooling services, and compression services and equipment. We are composed of three reporting segments organized into three Divisions - Completion Fluids & Products, Water & Flowback Services, and Compression.

Our Completion Fluids & Products Division manufactures and markets clear brine fluids, additives, and associated products and services to the oil and gas industry for use in well drilling, completion and workover operations in the United States and in certain countries in Latin America, Europe, Asia, the Middle East and Africa. The Division also markets liquid and dry calcium chloride products manufactured at its production facilities or purchased from third-party suppliers to a variety of markets outside the energy industry.

Our Water & Flowback Services Division provides onshore oil and gas operators with comprehensive water management services. The Division also provides frac flowback, production well testing, offshore rig cooling, and other associated services in many of the major oil and gas producing regions in the United States, Mexico, and Canada, as well as in oil and gas basins in certain regions in South America, Africa, Europe, the Middle East and Australia.

Our Compression Division is a provider of compression services and equipment for natural gas and oil production, gathering, transportation, processing, and storage. The Compression Division's equipment sales business includes the fabrication and sale of standard compressor packages and custom-designed compressor packages designed and fabricated at the Division's facilities. The Compression Division's aftermarket business provides compressor package reconfiguration and maintenance services and compressor package parts and components manufactured by third-party suppliers. The Compression Division provides its services and equipment to a broad base of natural gas and oil exploration and production, midstream, transmission, and storage companies operating throughout many of the onshore producing regions of the United States, as well as in a number of foreign countries, including Mexico, Canada and Argentina.

We continue to pursue a long-term growth strategy that includes expanding our core businesses, through internal growth and acquisitions, domestically and internationally.

Company Information

We were incorporated in Delaware in 1981. Our corporate headquarters are located at 24955 Interstate 45 North in The Woodlands, Texas 77380. Our phone number is (281) 367-1983 and our website may be accessed at www.tetrathec.com. Information on our website is not incorporated into this prospectus or our other securities filings and is not a part of this prospectus.

Securities We May Offer

We may offer an indeterminate number of shares of common stock and preferred stock, such indeterminate principal amount of debt securities, such indeterminate number of warrants and rights to purchase common stock, preferred stock or debt securities, and such indeterminate number of units, either individually or in combination, up to \$400,000,000, from time to time under this prospectus, together with the prospectus supplement and any related free writing prospectus, at prices and on terms

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to be determined by market conditions at the time of any offering. We may also offer common stock, preferred stock, debt securities, rights and/or units upon the exercise of warrants. This prospectus provides you with a general description of the securities we may offer. Each time we offer a type or series of securities under this prospectus, we will provide a prospectus supplement that will describe the specific amounts, prices and other important terms of the securities, including, to the extent applicable:

- designation or classification;
- aggregate principal amount or aggregate offering price;
- maturity date, if applicable;
- original issue discount, if any;
- rates and times of payment of interest or dividends, if any;
- redemption, conversion, exercise, exchange or sinking fund terms, if any;
- conversion or exchange prices or rates, if any, and if applicable any provisions for changes to or adjustments in the conversion or exchange prices or rates and in the securities or other property receivable upon conversion or exchange;
- ranking;
- restrictive covenants, if any;
- voting or other rights, if any; and
- material or special U.S. federal income tax considerations, if any.

The applicable prospectus supplement and any related free writing prospectus that we may authorize to be provided to you may also add, update or change any of the information contained in this prospectus or in the documents we have incorporated by reference. However, no prospectus supplement or free writing prospectus will offer a security that is not registered and described in this prospectus at the time of the effectiveness of the registration statement of which this prospectus is a part.

We may sell the securities directly to investors or to or through agents, underwriters or dealers. We, and our agents or underwriters, reserve the right to accept or reject all or part of any proposed purchase of securities. If we do offer securities to or through agents or underwriters, we will include in the applicable prospectus supplement:

- the names of those agents or underwriters;
- applicable fees, discounts and commissions to be paid to them;
- details regarding over-allotment options, if any; and
- the net proceeds to us.

RISK FACTORS

The securities to be offered by this prospectus may involve a high degree of risk. When considering an investment in any of the securities, you should consider carefully all of the risk factors described in our annual report on Form 10-K for the fiscal year ended December 31, 2018. You should also consider similar information in any annual report on Form 10-K, quarterly report on Form 10-Q or other document incorporated by reference into this prospectus or filed by us with the SEC after the date of this prospectus. If applicable, we will include in any prospectus supplement a description of those significant factors that could make the offering described in the prospectus supplement speculative or risky.

USE OF PROCEEDS

Unless otherwise specified in an accompanying prospectus supplement, we expect to use the net proceeds from the sale of the securities offered by this prospectus to fund:

- working capital needs;
- capital expenditures;
- purchases and redemptions of securities; and
- expenditures related to general corporate purposes, including possible future acquisitions.

The actual application of proceeds from the sale of any particular tranche of securities issued hereunder will be described in the applicable prospectus supplement relating to such tranche of securities. We may invest funds not required immediately for these purposes in marketable securities and short-term investments. The precise amount and timing of the application of these proceeds will depend upon our funding requirements and the availability and cost of other funds.

DESCRIPTION OF CAPITAL STOCK

The following is a summary of the material terms and provisions of our capital stock. You should refer to the applicable provisions of our restated certificate of incorporation, as amended, our amended and restated bylaws and the documents that we have incorporated by reference for a complete statement of the terms and rights of our capital stock.

As of December 31, 2018, our authorized capital stock was 255,000,000 shares, which includes 250,000,000 shares authorized as common stock, \$0.01 par value, and 5,000,000 shares authorized as preferred stock, \$0.01 par value. As of December 31, 2018, we had 125,737,565 shares of common stock outstanding. There were no shares of preferred stock outstanding as of such date.

Common Stock

Listing. Our common stock is listed on the New York Stock Exchange under the symbol “TTI.”

Dividends. Subject to the rights of holders of preferred stock, common stockholders may receive dividends when declared by the board of directors. Dividends may be paid in cash, stock or another form. However, our existing credit agreements contain covenants that restrict our ability to pay dividends.

Fully Paid. All outstanding shares of common stock are, and the common stock offered by this prospectus and any prospectus supplement will be, fully paid and non-assessable upon issuance.

Voting Rights. Common stockholders are entitled to one vote in the election of directors and other matters for each share of common stock owned. Common stockholders are not entitled to preemptive or cumulative voting rights.

Other Rights. We will notify common stockholders of any stockholders' meetings in accordance with applicable law. If we liquidate, dissolve or wind-up our business, either voluntarily or not, common stockholders will share equally in the assets remaining after we pay our creditors and preferred stockholders. There are no redemption or sinking fund provisions applicable to the common stock.

Transfer Agent and Registrar. Our transfer agent and registrar is Computershare Trust Company, N.A. located in Providence, Rhode Island.

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Preferred Stock

Our board of directors can, without approval of our stockholders, issue one or more series or classes of preferred stock from time to time limited by the number of shares of preferred stock then authorized. The board can also determine the number of shares of each series and the rights, preferences and limitations of each series or class, including the dividend rights, voting rights, conversion rights, redemption rights and any liquidation preferences of any series or class of preferred stock and the terms and conditions of issue.

If we offer shares of preferred stock, the specific terms will be described in a prospectus supplement, including:

- the specific designation, number of shares, seniority and purchase price;
- any liquidation preference per share;
- any date of maturity;
- any redemption, repayment or sinking fund provisions;
- any dividend rate or rates and the dates on which any such dividends will be payable (or the method by which such rates or dates will be determined);
- any voting rights;
- if other than the currency of the United States, the currency or currencies, including composite currencies, in which such preferred stock is denominated and/or in which payments will or may be payable;
- the method by which amounts in respect of such preferred stock may be calculated and any commodities, currencies or indices, or value, rate or price, relevant to such calculation;
- whether such preferred stock is convertible or exchangeable and, if so, the securities or rights into which such preferred stock is convertible or exchangeable, and the terms and conditions upon which such conversions or exchanges will be effected, including conversion or exchange prices or rates, the conversion or exchange period and any other related provisions;
- the place or places where dividends and other payments on the preferred stock will be payable; and
- any additional voting, dividend, liquidation, redemption and other rights, preferences, privileges, limitations and restrictions.

All shares of preferred stock offered will, when issued, be fully paid and non-assessable.

The transfer agent, registrar, and dividend disbursement agent for a series of preferred stock will be named in a prospectus supplement. The registrar for shares of preferred stock will send notices to stockholders of any meetings at which holders of the preferred stock have the right to elect directors or to vote on any other matter.

In some cases, the issuance of preferred stock could delay a change in control of us and make it more difficult to remove present management. Under certain circumstances, preferred stock could also restrict dividend payments to common stockholders.

Certain Provisions of Our Certificate of Incorporation, Bylaws and Law

Our restated certificate of incorporation, as amended, and amended and restated bylaws contain provisions that may render more difficult possible takeover proposals to acquire control of us and make removal of our management more difficult. Below is a description of certain of these provisions in our restated certificate of incorporation, as amended, and amended and restated bylaws.

Our restated certificate of incorporation, as amended, authorizes a class of undesignated preferred stock consisting of 5,000,000 shares. Preferred stock may be issued from time to time in one or more series, and our board of directors, without further approval of the stockholders, is authorized to fix the designations, powers, preferences, and rights applicable to each series of preferred stock. The purpose

of authorizing the board of directors to determine such designations, powers, preferences, and rights is to allow such determinations to be made by the board of directors instead of the stockholders and to avoid the expense of, and eliminate delays associated with, a stockholder vote on specific issuances. The issuance of preferred stock, while providing flexibility in connection with possible acquisitions and other corporate purposes, could, among other things, adversely affect the voting power of the holders of common stock and, under some circumstances, make it more difficult for a third party to gain control of us.

Our restated certificate of incorporation, as amended, authorizes the board of directors to create and issue rights entitling the holders thereof to purchase shares of our capital stock or other securities. The times at which and the terms upon which these rights are to be issued will be determined by the board of directors and set forth in the contracts or instruments that evidence such rights. The authority of the board of directors with respect to such rights shall include, but not be limited to, determination of the following:

- the initial purchase price per share of our capital stock or other securities to be purchased upon exercise of such rights;
- provisions relating to the times at which and the circumstances under which such rights may be exercised or sold or otherwise transferred, either together with or separately from, any other of our securities;
- provisions that adjust the number or exercise price of such rights or amount or nature of the securities or other property receivable upon exercise of such rights in the event of a combination, split or recapitalization of any capital stock, a change in ownership of our securities or a reorganization, merger, consolidation, sale of assets or other occurrence relating to us or any of our capital stock, and provisions restricting the ability of us to enter into any such transaction absent an assumption by the other party or parties thereto of our obligations under such rights;
- provisions that deny the holder of a specified percentage of our outstanding securities the right to exercise such rights and/or cause such rights held by such holder to become void;
- provisions that permit us to redeem such rights;
- the appointment of rights agent with respect to such rights;
- the issuance of such rights could, among other things, adversely affect the voting power of the holders of common stock and, under some circumstances, make it more difficult for a third party to gain control of us; and
- such other provisions relating to such rights as may be determined by the board of directors.

Our restated certificate of incorporation, as amended, provides that, subject to the rights of holders of any preferred stock, any action required or permitted to be taken by our stockholders must be taken at an annual or special meeting of stockholders and not by written consent.

Our restated certificate of incorporation, as amended, precludes the ability of our stockholders to call meetings of stockholders. Except as may be required by law and subject to the holders of rights of preferred stock, special meetings of stockholders may be called only by our chairman of the board or by our board of directors pursuant to a resolution adopted by a majority of the members of the board of directors.

Our amended and restated bylaws contain specific procedures for stockholder nomination of directors. These provisions require advance notification that must be given in accordance with the provisions of our bylaws, as amended. The procedure for stockholder nomination of directors may have the effect of precluding a nomination for the election of directors at a particular meeting if the required procedure is not followed.

Although Section 214 of the Delaware General Corporation Law, or “DGCL,” provides that a corporation’s certificate of incorporation may provide for cumulative voting for directors, our restated certificate of incorporation, as amended, does not provide for cumulative voting. As a result, the holders

of a majority of the votes of the outstanding shares of our common stock have the ability to elect all of the directors being elected at any annual meeting of stockholders.

As a Delaware corporation, we are subject to Section 203, or the business combination statute, of the DGCL. Under the business combination statute of the DGCL, a corporation is generally restricted from engaging in a business combination (as defined in Section 203 of the DGCL) with an interested stockholder (defined generally as a person owning 15% or more of the corporation's outstanding voting stock) for a three-year period following the time the stockholder became an interested stockholder. This restriction applies unless:

- prior to the time the stockholder became an interested stockholder, the board of directors of the corporation approved either the business combination or the transaction which resulted in the stockholder becoming an interested stockholder;
- the interested stockholder owned at least 85% of the voting stock of the corporation upon completion of the transaction which resulted in the stockholder becoming an interested stockholder (excluding stock held by the corporation's directors who are also officers and by the corporation's employee stock plans, if any, that do not provide employees with the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer); or
- at or subsequent to the time the stockholder became an interested stockholder, the business combination was approved by the board of directors of the corporation and authorized by the affirmative vote, at an annual or special meeting, and not by written consent, of at least 66 2/3% of the outstanding voting shares of the corporation, excluding shares held by that interested stockholder.

The provisions of the Delaware business combination statute do not apply to a corporation if, subject to certain requirements specified in Section 203(b) of the DGCL, the certificate of incorporation or bylaws of the corporation contain a provision expressly electing not to be governed by the provisions of the statute or the corporation does not have voting stock listed on a national securities exchange or held of record by more than 2,000 stockholders. We have not adopted any provision in our restated certificate of incorporation, as amended, or amended and restated bylaws electing not to be governed by the Delaware business combination statute. As a result, the statute is applicable to business combinations involving us.

Liability and Indemnification of Officers and Directors

Our restated certificate of incorporation, as amended, provides for indemnification of our directors and officers to the full extent permitted by applicable law. Our amended and restated bylaws also provide that directors and officers shall be indemnified against liabilities arising from their service as directors or officers to the fullest extent permitted by law, which generally requires that the individual act in good faith and in a manner he or she reasonably believes to be in or not opposed to our best interests.

We have also entered into indemnification agreements with all of our directors and elected officers. The indemnification agreements provide that we will indemnify these officers and directors to the fullest extent permitted by our restated certificate of incorporation, as amended, amended and restated bylaws and applicable law. The indemnification agreements also provide that these officers and directors shall be entitled to the advancement of fees as permitted by applicable law and sets out the procedures required under the agreements for determining entitlement to and obtaining indemnification and expense advancement.

We also have director and officer liability insurance for the benefit of each of the above indemnitees. These policies include coverage for losses for wrongful acts and omissions. Each of the indemnitees are named as an insured under such policies and provided with the same rights and benefits as are accorded to the most favorably insured of our directors and officers.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or persons controlling the registrant pursuant to the foregoing provisions, we have been informed that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

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DESCRIPTION OF DEBT SECURITIES

Any debt securities that we offer under a prospectus supplement will be direct, unsecured general obligations. The debt securities will be either senior debt securities or subordinated debt securities. The debt securities will be issued under one or more separate indentures between us and Wells Fargo Bank, National Association, as trustee. Senior debt securities will be issued under a senior indenture and subordinated debt securities will be issued under a subordinated indenture. Together, the senior indenture and the subordinated indenture are called “indentures.” The indentures will be supplemented by supplemental indentures, the material provisions of which will be described in a prospectus supplement.

As used in this description, the words “we,” “us” and “our” refer to TETRA Technologies, Inc., and not to any of our subsidiaries or affiliates.

We have summarized some of the material provisions of the indentures below. This summary does not restate those agreements in their entirety. A form of senior indenture and a form of subordinated indenture have been filed as exhibits to the registration statement of which this prospectus is a part. We urge you to read each of the indentures because each one, and not this description, defines the rights of holders of debt securities.

Capitalized terms defined in the indentures have the same meanings when used in this prospectus.

General

The debt securities issued under the indentures will be our direct, unsecured general obligations. The senior debt securities will rank equally with all of our other senior and unsubordinated debt. The subordinated debt securities will have a junior position to all of our senior debt.

The following description sets forth the general terms and provisions that could apply to debt securities that we may offer to sell. A prospectus supplement relating to any series of debt securities being offered will include specific terms relating to the offering. These terms will include some or all of the following, among others:

- the title and type of the debt securities;
- the total principal amount of the debt securities;
- the percentage of the principal amount at which the debt securities will be issued and any payments due if the maturity of the debt securities is accelerated;
- the dates on which the principal of the debt securities will be payable;
- the interest rate which the debt securities will bear and the interest payment dates for the debt securities;
- any conversion or exchange features;
- any optional redemption periods;
- any sinking fund or other provisions that would obligate us to repurchase or otherwise redeem some or all of the debt securities;
- any provisions granting special rights to holders when a specified event occurs;
- any changes to or additional events of default or covenants;
- any special tax implications of the debt securities, including provisions for original issue discount securities, if offered; and
- any other terms of the debt securities.

Neither of the indentures will limit the amount of debt securities that may be issued. Each indenture will allow debt securities to be issued up to the principal amount that may be authorized by us and may be in any currency or currency unit designated by us.

Debt securities of a series may be issued in registered or global form.

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Covenants

Under the indentures, we:

- will pay the principal of, and interest and any premium on, the debt securities when due;
- will maintain a place of payment;
- will deliver a certificate to the trustee each fiscal year reviewing our compliance with our obligations under the indentures;
- will preserve our corporate existence; and
- will segregate or deposit with any paying agent sufficient funds for the payment of any principal, interest or premium on or before the due date of such payment.

Mergers and Sale of Assets

Each of the indentures will provide that we may not convert into, or consolidate, amalgamate or merge with or into any other Person or sell, convey, transfer or lease all or substantially all of our properties and assets (on a consolidated basis) to another Person, unless:

- either: (a) we are the surviving Person; or (b) the Person formed by or surviving any such consolidation, amalgamation or merger or resulting from such conversion (if other than us) or to which such sale, assignment, transfer, conveyance or other disposition has been made is a corporation, limited liability company or limited partnership organized or existing under the laws of the United States, any State thereof or the District of Columbia;
- the Person formed by or surviving any such conversion, consolidation, amalgamation or merger (if other than us) or the Person to which such sale, assignment, transfer, conveyance or other disposition has been made assumes all of our obligations under such indenture and the debt securities governed thereby pursuant to agreements reasonably satisfactory to the trustee, which may include a supplemental indenture;
- we or the successor will not immediately be in default under such indenture; and
- we deliver an officer's certificate and opinion of counsel to the trustee stating that such consolidation, amalgamation, merger, conveyance, sale, transfer or lease and any supplemental indenture comply with such indenture and that all conditions precedent set forth in such indenture have been complied with and such supplemental indenture, if any, is our legal, valid and binding obligation.

Upon the assumption of our obligations under each indenture by a successor, we will be discharged from all obligations under such indenture.

As used in the indenture and in this description, the word "Person" means any individual, corporation, company, limited liability company, partnership, limited partnership, joint venture, association, joint-stock company, trust, other entity, unincorporated organization or government or any agency or political subdivision thereof.

Events of Default

"Event of default," when used in the indentures with respect to debt securities of any series, will mean any of the following:

- (1) default in the payment of any interest upon any debt security of that series when it becomes due and payable, and continuance of such default for a period of 30 days;
- (2) default in the payment of the principal of (or premium, if any, on) any debt security of that series at its maturity;
- (3) default in the performance, or breach, of any covenant set forth in Article Ten of the applicable indenture (other than a covenant, a default in the performance of which or the breach of which is elsewhere specifically dealt with as

an event of default or which has expressly been included in such indenture solely for the benefit of one or more series of debt securities other than

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that series), and continuance of such default or breach for a period of 90 days after there has been given, by registered or certified mail, to us by the trustee or to us and the trustee by the holders of at least 25% in principal amount of the then-outstanding debt securities of that series a written notice specifying such default or breach and requiring it to be remedied and stating that such notice is a “Notice of Default” thereunder;

(4) default in the performance, or breach, of any covenant in the applicable indenture (other than a covenant set forth in Article Ten of such indenture or any other covenant, a default in the performance of which or the breach of which is elsewhere specifically dealt with as an event of default or which has expressly been included in such indenture solely for the benefit of one or more series of debt securities other than that series), and continuance of such default or breach for a period of 180 days after there has been given, by registered or certified mail, to us by the trustee or to us and the trustee by the holders of at least 25% in principal amount of the then-outstanding debt securities of that series a written notice specifying such default or breach and requiring it to be remedied and stating that such notice is a “Notice of Default” thereunder;

(5) we, pursuant to or within the meaning of any bankruptcy law, (i) commence a voluntary case, (ii) consent to the entry of any order for relief against us in an involuntary case, (iii) consent to the appointment of a custodian of us or for all or substantially all of our property, or (iv) make a general assignment for the benefit of our creditors;

(6) a court of competent jurisdiction enters an order or decree under any bankruptcy law that (i) is for relief against us in an involuntary case, (ii) appoints a custodian of us or for all or substantially all of our property, or (iii) orders the liquidation of us, and the order or decree remains unstayed and in effect for 90 consecutive days;

(7) default in the deposit of any sinking fund payment when due; or

(8) any other event of default provided with respect to debt securities of that series in accordance with provisions of the indenture related to the issuance of such debt securities.

An event of default for a particular series of debt securities does not necessarily constitute an event of default for any other series of debt securities issued under an indenture. The trustee may withhold notice to the holders of debt securities of any default (except in the payment of principal, interest or any premium) if it considers the withholding of notice to be in the interests of the holders.

If an event of default for any series of debt securities occurs and continues, the trustee or the holders of 25% in aggregate principal amount of the debt securities of the series may declare the entire principal of all of the debt securities of that series to be due and payable immediately. If this happens, subject to certain conditions, the holders of a majority of the aggregate principal amount of the debt securities of that series can void the declaration.

Other than its duties in case of a default, a trustee is not obligated to exercise any of its rights or powers under any indenture at the request, order or direction of any holders, unless the holders offer the trustee indemnity satisfactory to the trustee. If they provide this satisfactory indemnification, the holders of a majority in principal amount outstanding of any series of debt securities may direct the time, method and place of conducting any proceeding or any remedy available to the trustee, or exercising any power conferred upon the trustee, for any series of debt securities.

Amendments and Waivers

Subject to certain exceptions, the indentures, the debt securities issued thereunder or the subsidiary guarantees, if any, may be amended or supplemented with the consent of the holders of a majority in aggregate principal amount of the then-outstanding debt securities of each series affected by such amendment or supplemental indenture, with each such series voting as a separate class (including, without limitation, consents obtained in connection with a purchase of, or

tender offer or exchange offer for, debt securities) and, subject to certain exceptions, any past default or compliance with any provisions may be waived with respect to each series of debt securities with the consent of the holders of a majority in principal amount of the then-outstanding debt securities of such series voting as a separate class (including consents obtained in connection with a purchase of, or tender offer or exchange offer for, debt securities).

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Without the consent of each holder of the outstanding debt securities affected, an amendment, supplement or waiver may not, among other things:

- (1) change the stated maturity of the principal of, or any installment of principal of or interest on, any debt security, reduce the principal amount thereof or the rate of interest thereon or any premium payable upon the redemption thereof, reduce the amount of the principal of an original issue discount security that would be due and payable upon a declaration of acceleration of the maturity thereof pursuant to the applicable indenture, change the coin or currency in which any debt security or any premium or the interest thereon is payable, or impair the right to institute suit for the enforcement of any such payment on or after the stated maturity thereof (or, in the case of redemption, on or after the redemption date therefor);
- (2) reduce the percentage in principal amount of the then-outstanding debt securities of any series, the consent of the holders of which is required for any such amendment or supplemental indenture, or the consent of the holders of which is required for any waiver of compliance with certain provisions of the applicable indenture or certain defaults thereunder and their consequences provided for in the applicable indenture;
- (3) modify any of the provisions set forth in (i) the provisions of the applicable indenture related to the holder's unconditional right to receive principal, premium, if any, and interest on the debt securities or (ii) the provisions of the applicable indenture related to the waiver of past defaults under such indenture;
- (4) waive a redemption payment with respect to any debt security; provided, however, that (i) any purchase or repurchase of debt securities shall not be deemed a redemption of the debt securities and (ii) any amendment to the minimum notice requirement may be made with the consent of the Holders of a majority in aggregate principal amount of the Outstanding Securities of each series of Securities affected by such amendment or supplemental indenture;
- (5) release any guarantor from any of its obligations under its guarantee or the applicable indenture, except in accordance with the terms of such indenture (as amended or supplemented); or
- (6) make any change in the foregoing amendment and waiver provisions, except to increase any percentage provided for therein or to provide that certain other provisions of the applicable indenture cannot be modified or waived without the consent of the holder of each then-outstanding debt security affected thereby.

Notwithstanding the foregoing, without the consent of any holder of debt securities, we, the guarantors, if any, and the trustee may amend each of the indentures or the debt securities issued thereunder to:

- (1) cure any ambiguity or defect or to correct or supplement any provision therein that may be inconsistent with any other provision therein;
- (2) evidence the succession of another Person to us and the assumption by any such successor of our covenants therein and, to the extent applicable, of the debt securities;
- (3) provide for uncertificated debt securities in addition to or in place of certificated debt securities; provided that the uncertificated debt securities are issued in registered form for purposes of Section 163(f) of the Internal Revenue Code of 1986, as amended (the "Code"), or in the manner such that the uncertificated debt securities are described in Section 163(f)(2)(B) of the Code;
- (4) add a guarantee and cause any Person to become a guarantor, and/or to evidence the succession of another Person to a guarantor and the assumption by any such successor of the guarantee of such guarantor therein and, to the extent

applicable, endorsed upon any debt securities of any series;

(5) secure the debt securities of any series;

(6) add to the covenants such further covenants, restrictions, conditions or provisions as we shall consider to be appropriate for the benefit of the holders of all or any series of debt securities

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(and if such covenants, restrictions, conditions or provisions are to be for the benefit of less than all series of debt securities, stating that such covenants are expressly being included solely for the benefit of such series) or to surrender any right or power therein conferred upon us, and to make the occurrence, or the occurrence and continuance, of a default in any such additional covenants, restrictions, conditions or provisions an event of default permitting the enforcement of all or any of the several remedies provided in the applicable indenture as set forth therein; provided, that in respect of any such additional covenant, restriction, condition or provision, such amendment or supplemental indenture may provide for a particular period of grace after default (which period may be shorter or longer than that allowed in the case of other defaults) or may provide for an immediate enforcement upon such an event of default or may limit the remedies available to the trustee upon such an event of default or may limit the right of the holders of a majority in aggregate principal amount of the debt securities of such series to waive such an event of default;

(7) make any change to any provision of the applicable indenture that does not materially and adversely affect the rights or interests of any holder of debt securities issued thereunder;

(8) provide for the issuance of additional debt securities in accordance with the provisions set forth in the applicable indenture;

(9) add any additional events of default in respect of all or any series of debt securities;

(10) add to, change or eliminate any of the provisions of the applicable indenture to such extent as shall be necessary to permit or facilitate the issuance of debt securities in bearer form, registrable or not registrable as to principal, and with or without interest coupons;

(11) change or eliminate any of the provisions of the applicable indenture; provided that any such change or elimination shall become effective only when there is no debt security outstanding of any series created prior to the execution of such amendment or supplemental indenture that is entitled to the benefit of such provision;

(12) establish the form or terms of debt securities of any series as permitted thereunder, including to reopen any series of any debt securities as permitted thereunder;

(13) evidence and provide for the acceptance of appointment thereunder by a successor trustee with respect to the debt securities of one or more series and to add to or change any of the provisions of the applicable indenture as shall be necessary to provide for or facilitate the administration of the trusts thereunder by more than one trustee, pursuant to the requirements of such indenture;

(14) conform the text of the applicable indenture (and/or any supplemental indenture) or any debt securities issued thereunder to any provision of a description of such debt securities appearing in a prospectus or prospectus supplement or an offering memorandum or offering circular to the extent that such provision appears on its face to have been intended to be a verbatim recitation of a provision of such indenture (and/or any supplemental indenture) or any debt securities issued thereunder as described in an officer's certificate delivered by us to the trustee; or

(15) modify, eliminate or add to the provisions of the applicable indenture to such extent as shall be necessary to effect the qualification of such indenture under the Trust Indenture Act of 1939, as amended (the "Trust Indenture Act"), or under any similar federal statute subsequently enacted, and to add to such indenture such other provisions as may be expressly required under the Trust Indenture Act.

The consent of the holders is not necessary under either indenture to approve the particular form of any proposed amendment. It is sufficient if such consent approves the substance of the proposed amendment. After an amendment with the consent of the holders under an indenture becomes effective, we are required to mail to the holders of debt

securities thereunder a notice briefly describing such amendment. However, the failure to give such notice to all such holders, or any defect therein, will not impair or affect the validity of the amendment.

Legal Defeasance and Covenant Defeasance

Each indenture provides that we may, at our option and at any time, elect to have all of our obligations discharged with respect to the debt securities outstanding thereunder and all obligations of any guarantors of such debt securities discharged with respect to their guarantees (“Legal Defeasance”), except for:

- (1) the rights of holders of outstanding debt securities to receive payments in respect of the principal of, or interest or premium, if any, on, such debt securities when such payments are due from the trust referred to below;
- (2) our obligations with respect to the debt securities concerning temporary debt securities, registration of debt securities, mutilated, destroyed, lost or stolen debt securities, the maintenance of an office or agency for payment and money for security payments held in trust;
- (3) the rights, powers, trusts, duties and immunities of the trustee and our and each guarantor’s obligations in connection therewith; and
- (4) the Legal Defeasance and Covenant Defeasance (as defined below) provisions of the applicable indenture.

In addition, we may, at our option and at any time, elect to have our obligations released with respect to certain provisions of each indenture, including certain provisions described in any prospectus supplement (such release and termination being referred to as “Covenant Defeasance”), and thereafter any failure to comply with such obligations or provisions will not constitute a default or event of default. In addition, in the event Covenant Defeasance occurs in accordance with the applicable indenture, any defeasible event of default will no longer constitute an event of default.

In order to exercise either Legal Defeasance or Covenant Defeasance:

- (1) we must irrevocably deposit with the trustee, in trust, for the benefit of the holders of the debt securities, cash in U.S. dollars, non-callable U.S. government securities, or a combination of cash in U.S. dollars and non-callable U.S. government securities, in amounts as will be sufficient, without consideration of any reinvestment of interest, in the opinion of a nationally recognized investment bank, appraisal firm or firm of independent public accountants, to pay the principal of, and interest and premium, if any, on, the outstanding debt securities on the stated date for payment thereof or on the applicable redemption date, as the case may be, and we must specify whether the debt securities are being defeased to such stated date for payment or to a particular redemption date;
- (2) in the case of Legal Defeasance, we must deliver to the trustee an opinion of counsel reasonably acceptable to the trustee confirming that (a) we have received from, or there has been published by, the Internal Revenue Service a ruling or (b) since the issue date of the debt securities, there has been a change in the applicable federal income tax law, in either case to the effect that, and based thereon such opinion of counsel will confirm that, the holders of the outstanding debt securities will not recognize income, gain or loss for federal income tax purposes as a result of such Legal Defeasance and will be subject to federal income tax on the same amounts, in the same manner and at the same time as would have been the case if such Legal Defeasance had not occurred;
- (3) in the case of Covenant Defeasance, we must deliver to the trustee an opinion of counsel reasonably acceptable to the trustee confirming that the holders of the outstanding debt securities will not recognize income, gain or loss for federal income tax purposes as a result of such Covenant Defeasance and will be subject to federal income tax on the same amounts, in the same manner and at the same times as would have been the case if such Covenant Defeasance had not occurred;

(4) no default or event of default shall have occurred and be continuing on the date of such deposit (other than a default or event of default resulting from the borrowing of funds to be applied to such deposit);

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(5) the deposit must not result in a breach or violation of, or constitute a default under, any other instrument to which we are, or any guarantor is, a party or by which we are, or any guarantor is, bound;

(6) such Legal Defeasance or Covenant Defeasance must not result in a breach or violation of, or constitute a default under, any material agreement or instrument (other than the applicable indenture) to which we are, or any of our subsidiaries is, a party or by which we are, or any of our subsidiaries is, bound;

(7) we must deliver to the trustee an officer's certificate stating that the deposit was not made by us with the intent of preferring the holders of debt securities over our other creditors with the intent of defeating, hindering, delaying or defrauding our creditors or the creditors of others;

(8) we must deliver to the trustee an officer's certificate stating that all conditions precedent set forth in clauses (1) through (6) of this paragraph have been complied with; and

(9) we must deliver to the trustee an opinion of counsel (which opinion of counsel may be subject to customary assumptions, qualifications, and exclusions) stating that all conditions precedent set forth in clauses (2), (3) and (6) of this paragraph have been complied with.

Satisfaction and Discharge

Each of the indentures will be discharged and will cease to be of further effect (except as to surviving rights of registration of transfer or exchange of debt securities and certain rights of the trustee, as expressly provided for in such indenture) as to all outstanding debt securities and guarantees issued thereunder when:

(1) either (a) all of the debt securities theretofore authenticated and delivered under such indenture (except lost, stolen or destroyed debt securities that have been replaced or paid and debt securities for the payment of which money has theretofore been deposited in trust or segregated and held in trust by us and thereafter repaid to us or discharged from such trust) have been delivered to the trustee for cancellation or (b) all debt securities not theretofore delivered to the trustee for cancellation have become due and payable, will become due and payable at their stated maturity within one year, or are to be called for redemption within one year under arrangements satisfactory to the trustee for the giving of notice of redemption by the trustee in the name, and at the expense, of us, and we have irrevocably deposited or caused to be deposited with the trustee funds, in an amount sufficient, without consideration of any reinvestment of interest, to pay and discharge the entire indebtedness on the debt securities not theretofore delivered to the trustee for cancellation, for principal of and premium, if any, and interest on the debt securities to the date of deposit (in the case of debt securities that have become due and payable) or to the stated maturity or redemption date, as the case may be, together with instructions from us irrevocably directing the trustee to apply such funds to the payment thereof at maturity or redemption, as the case may be;

(2) we have paid all other sums then due and payable under such indenture by us; and

(3) we have delivered to the trustee an officer's certificate and an opinion of counsel, which, taken together, state that all conditions precedent under such indenture relating to the satisfaction and discharge of such indenture have been complied with.

No Personal Liability of Directors, Managers, Officers, Employees, Partners, Members and Stockholders

No director, manager, officer, employee, incorporator, partner, member or stockholder of us or any guarantor, as such, shall have any liability for any of our or the guarantors' obligations under the debt securities, the indentures, the guarantees or for any claim based on, in respect of, or by reason of, such obligations or their creation. Each holder of

debt securities, upon our issuance of the debt securities and execution of the indentures, waives and releases all such liability. The waiver and release are part of the consideration for issuance of the debt securities. Such waiver may not be effective to waive liabilities under the federal securities laws and it is the view of the SEC that such a waiver is against public policy.

Denominations

Unless stated otherwise in the prospectus supplement for each issuance of debt securities, the debt securities will be issued in minimum denominations of \$1,000 each and integral multiples of \$1,000 in excess of \$1,000.

Paying Agent and Registrar

The trustee will initially act as paying agent and registrar for the debt securities. We may change the paying agent or registrar without prior notice to the holders of the debt securities, and we may act as paying agent or registrar.

Transfer and Exchange

A holder may transfer or exchange debt securities in accordance with the applicable indenture. The registrar and the trustee may require a holder, among other things, to furnish appropriate endorsements and transfer documents, and we may require a holder to pay any taxes and fees required by law or permitted by the applicable indenture. We are not required to transfer or exchange any debt security selected for redemption. In addition, we are not required to transfer or exchange any debt security for a period of 15 days before a selection of debt securities to be redeemed.

Subordination

The payment of the principal of and premium, if any, and interest on subordinated debt securities and any of our other payment obligations in respect of subordinated debt securities (including any obligation to repurchase subordinated debt securities) is subordinated in certain circumstances in right of payment, as set forth in the subordinated indenture, to the prior payment in full in cash of all senior debt.

We also may not make any payment, whether by redemption, purchase, retirement, defeasance or otherwise, upon or in respect of subordinated debt securities, except from a trust described under “— Legal Defeasance and Covenant Defeasance,” if

- a default in the payment of all or any portion of the obligations on any designated senior debt (“payment default”) occurs that has not been cured or waived, or
- any other default occurs and is continuing with respect to designated senior debt pursuant to which the maturity thereof may be accelerated (“non-payment default”) and, solely with respect to this clause, the trustee for the subordinated debt securities receives a notice of the default (a “payment blockage notice”) from the trustee or other representative for the holders of such designated senior debt.

Cash payments on subordinated debt securities will be resumed (a) in the case of a payment default, upon the date on which such default is cured or waived, and (b) in case of a non-payment default, the earliest of the date on which such non-payment default is cured or waived, the termination of the payment blockage period by written notice to the trustee for the subordinated debt securities from the trustee or other representative for the holders of such designated senior debt, the payment in full of such designated senior debt or 179 days after the date on which the applicable payment blockage notice is received. No new payment blockage period may be commenced unless and until 360 days have elapsed since the date of commencement of the payment blockage period resulting from the immediately prior payment blockage notice. No nonpayment default in respect of designated senior debt that existed or was continuing on the date of delivery of any payment blockage notice to the trustee for the subordinated debt securities will be, or be made, the basis for a subsequent payment blockage notice unless such default shall have been cured or waived for a period of no less than 90 consecutive days.

Upon any payment or distribution of our assets or securities (other than with the money, securities or proceeds held under any defeasance trust established in accordance with the subordinated indenture) in connection with any

dissolution or winding up or total or partial liquidation or reorganization of us, whether voluntary or involuntary, or in bankruptcy, insolvency, receivership or other proceedings or other marshalling of assets for the benefit of creditors, all amounts due or to become due upon all senior debt shall first be paid in full, in cash or cash equivalents, before the holders of the subordinated debt securities or the trustee on their behalf shall be entitled to receive any payment by or on behalf of us on account of the subordinated debt securities, or any payment to acquire any of the subordinated debt

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securities for cash, property or securities, or any distribution with respect to the subordinated debt securities of any cash, property or securities. Before any payment may be made by, or on behalf of, us on any subordinated debt security (other than with the money, securities or proceeds held under any defeasance trust established in accordance with the subordinated indenture) in connection with any such dissolution, winding up, liquidation or reorganization, any payment or distribution of our assets or securities, to which the holders of subordinated debt securities or the trustee on their behalf would be entitled, shall be made by us or by any receiver, trustee in bankruptcy, liquidating trustee, agent or other similar Person making such payment or distribution, or by the holders or the trustee if received by them or it, directly to the holders of senior debt or their representatives or to any trustee or trustees under any indenture pursuant to which any such senior debt may have been issued, as their respective interests appear, to the extent necessary to pay all such senior debt in full, in cash or cash equivalents, after giving effect to any concurrent payment, distribution or provision therefor to or for the holders of such senior debt.

As a result of these subordination provisions, in the event of our liquidation, bankruptcy, reorganization, insolvency, receivership or similar proceeding or an assignment for the benefit of our creditors or a marshalling of our assets or liabilities, holders of subordinated debt securities may receive ratably less than other creditors.

Payment and Transfer

Principal, interest and any premium on fully registered debt securities will be paid at designated places. Payment will be made by check mailed to the persons in whose names the debt securities are registered on days specified in the indentures or any prospectus supplement. Debt securities payments in other forms will be paid at a place designated by us and specified in a prospectus supplement.

Fully registered debt securities may be transferred or exchanged at the office of the trustee or at any other office or agency maintained by us for such purposes, without the payment of any service charge except for any tax or governmental charge.

Global Securities

The debt securities of a series may be issued in whole or in part in the form of one or more global certificates that we will deposit with a depository identified in the applicable prospectus supplement. Unless and until it is exchanged in whole or in part for the individual debt securities that it represents, a global security may not be transferred except as a whole:

- by the applicable depository to a nominee of the depository;
- by any nominee to the depository itself or another nominee; or
- by the depository or any nominee to a successor depository or any nominee of the successor.

We will describe the specific terms of the depository arrangement with respect to a series of debt securities in the applicable prospectus supplement. We anticipate that the following provisions will generally apply to depository arrangements.

When we issue a global security in registered form, the depository for the global security or its nominee will credit, on its book-entry registration and transfer system, the respective principal amounts of the individual debt securities represented by that global security to the accounts of persons that have accounts with the depository (“participants”). Those accounts will be designated by the dealers, underwriters or agents with respect to the underlying debt securities or by us if those debt securities are offered and sold directly by us. Ownership of beneficial interests in a global security will be limited to participants or persons that may hold interests through participants. For interests of participants, ownership of beneficial interests in the global security will be shown on records maintained by the applicable depository or its nominee. For interests of persons other than participants, that ownership information will

be shown on the records of participants. Transfer of that ownership will be effected only through those records. The laws of some states require that certain purchasers of securities take physical delivery of securities in definitive form. These limits and laws may impair our ability to transfer beneficial interests in a global security.

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As long as the depository for a global security, or its nominee, is the registered owner of that global security, the depository or nominee will be considered the sole owner or holder of the debt securities represented by the global security for all purposes under the applicable indenture. Except as provided below, owners of beneficial interests in a global security:

- will not be entitled to have any of the underlying debt securities registered in their names;
- will not receive or be entitled to receive physical delivery of any of the underlying debt securities in definitive form; and
- will not be considered the owners or holders under the indenture relating to those debt securities.

Payments of the principal of, any premium on and any interest on individual debt securities represented by a global security registered in the name of a depository or its nominee will be made to the depository or its nominee as the registered owner of the global security representing such debt securities. Neither we, the trustee for the debt securities, any paying agent nor the registrar for the debt securities will be responsible for any aspect of the records relating to or payments made by the depository or any participants on account of beneficial interests in the global security.

We expect that the depository or its nominee, upon receipt of any payment of principal, any premium or interest relating to a global security representing any series of debt securities, immediately will credit participants' accounts with the payments. Those payments will be credited in amounts proportional to the respective beneficial interests of the participants in the principal amount of the global security as shown on the records of the depository or its nominee. We also expect that payments by participants to owners of beneficial interests in the global security held through those participants will be governed by standing instructions and customary practices. This is now the case with securities held for the accounts of customers registered in "street name." Those payments will be the sole responsibility of those participants.

If the depository for a series of debt securities is at any time unwilling, unable or ineligible to continue as depository and we do not appoint a successor depository within 90 days, we will issue individual debt securities of that series in exchange for the global security or securities representing that series. In addition, we may at any time in our sole discretion determine not to have any debt securities of a series represented by one or more global securities. In that event, we will issue individual debt securities of that series in exchange for the global security or securities. Furthermore, if we specify, an owner of a beneficial interest in a global security may, on terms acceptable to us, the trustee and the applicable depository, receive individual debt securities of that series in exchange for those beneficial interests. The foregoing is subject to any limitations described in the applicable prospectus supplement. In any such instance, the owner of the beneficial interest will be entitled to physical delivery of individual debt securities equal in principal amount to the beneficial interest and to have the debt securities registered in its name. Those individual debt securities will be issued in any authorized denominations.

Governing Law

Each indenture and the debt securities will be governed by and construed in accordance with the laws of the State of New York.

Information Concerning the Trustee

Wells Fargo Bank, National Association will be the trustee under the indentures. A successor trustee may be appointed in accordance with the terms of the indentures.

The indentures and the provisions of the Trust Indenture Act incorporated by reference therein will contain certain limitations on the rights of the trustee, should it become a creditor of us, to obtain payment of claims in certain cases, or to realize on certain property received in respect of any such claim as security or otherwise. The trustee will be

permitted to engage in other transactions; however, if it acquires any conflicting interest (within the meaning of the Trust Indenture Act), it must eliminate such conflicting interest or resign.

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A single banking or financial institution may act as trustee with respect to both the subordinated indenture and the senior indenture. If this occurs, and should a default occur with respect to either the subordinated debt securities or the senior debt securities, such banking or financial institution would be required to resign as trustee under one of the indentures within 90 days of such default, pursuant to the Trust Indenture Act, unless such default were cured, duly waived or otherwise eliminated.

DESCRIPTION OF WARRANTS

We may issue warrants to purchase common stock, preferred stock, debt securities, rights or units. We may issue warrants independently or together with other securities that may be attached to or separate from the warrants. If we issue warrants, we may do so under one or more warrant agreements between us and a warrant agent that we will name in the prospectus supplement.

The prospectus supplement relating to any warrants being offered will include specific terms relating to the offering. These terms will include some or all of the following:

- the title of the warrants;
- the securities purchasable upon the exercise of such warrants;
- the exercise price;
- the aggregate number of warrants to be issued;
- the principal amount of securities purchasable upon exercise of each warrant;
- the price or prices at which each warrant will be issued;
- the procedures for exercising the warrants;
- the date upon which the exercise of warrants will commence;
- the expiration date, and any other material terms of the warrants; and
- any other terms of such warrants, including the terms, procedures and limitations relating to the exchange and exercise of such warrants.

The warrants do not confer upon the holders thereof any voting or other rights of stockholders.

DESCRIPTION OF RIGHTS

We may issue rights to purchase our common stock, preferred stock, debt securities, warrants or units. The rights may be issued independently or together with any other security offered hereby and may or may not be transferable by the persons purchasing or receiving the rights in such offering. In connection with any offering of such rights, we may enter into a standby underwriting or other arrangement with one or more underwriters or other purchasers pursuant to which such underwriters or other purchasers may be required to purchase any offered securities remaining unsubscribed for after such rights offering.

Each series of rights will be issued under a separate rights agreement that we will enter into with one or more banks, trust companies or other financial institutions, as rights agent, all of which will be set forth in the applicable prospectus supplement. The rights agent will act solely as our agent in connection with the certificates relating to the rights and will not assume any obligation or relationship of agency or trust for or with any holders of rights certificates or beneficial owners of rights.

The applicable prospectus supplement relating to any rights that we offer will include specific terms of any offering of rights for which this prospectus is being delivered, including the following:

- the price, if any, per right;
-

the exercise price payable for each share of debt securities, common stock, preferred stock, warrants or units upon the exercise of the rights;
the number of rights issued or to be issued to each stockholder;

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the number and terms of the shares of debt securities, common stock, preferred stock, warrants

or units that may be purchased per each right;

the extent to which the rights are transferable;

any other terms of the rights, including the terms, procedures and limitations relating to the exchange and exercise of the rights;

the respective dates on which the holder's ability to exercise the rights shall commence and shall expire;

the extent to which the rights may include an over-subscription privilege with respect to unsubscribed securities; and

if applicable, the material terms of any standby underwriting or purchase arrangement entered into by us in connection with the offering of such rights.

The description in the applicable prospectus supplement of any rights that we may offer will not necessarily be complete and will be qualified in its entirety by reference to the applicable rights certificate, which will be filed with the SEC.

DESCRIPTION OF UNITS

As specified in the applicable prospectus supplement, we may issue units consisting of one or more debt securities, shares of common stock, shares of preferred stock, warrants, rights or any combination of such securities.

The applicable prospectus supplement will specify the following terms of any units in respect of which this prospectus is being delivered:

the terms of the units and of any of the debt securities, common stock, preferred stock, warrants and rights comprising the units, including whether and under what circumstances the securities comprising the units may be traded separately;

a description of the terms of any unit agreement governing the units; and

a description of the provisions for the payment, settlement, transfer or exchange of the units.

PLAN OF DISTRIBUTION

We may sell the securities through agents, underwriters or dealers, or directly to one or more purchasers without using underwriters or agents.

We may designate agents to solicit offers to purchase our securities. We will name any agent involved in offering or selling our securities, and any commissions that we will pay to the agent, in the applicable prospectus supplement. Unless we indicate otherwise in our prospectus supplement, our agents will act on a best efforts basis for the period of their appointment.

Agents could make sales in privately negotiated transactions and/or any other method permitted by law, including sales deemed to be an "at the market" offering as defined in Rule 415 promulgated under the Securities Act, which includes sales made directly on or through the New York Stock Exchange, the existing trading markets for our common stock, or sales made to or through a market maker other than on an exchange.

If underwriters are used in the sale, the securities will be acquired by the underwriters for their own account. The underwriters may resell the securities in one or more transactions (including block transactions), at negotiated prices, at a fixed public offering price or at varying prices determined at the time of sale. We will include the names of the managing underwriter(s), as well as any other underwriters, and the terms of the transaction, including the compensation the underwriters and dealers will receive, in our prospectus supplement. If we use an underwriter, we will execute an underwriting agreement with the underwriter(s) at the time that we reach an agreement for the sale of our securities. The obligations of the underwriters to purchase the securities will be subject to certain conditions

contained in the underwriting agreement. The underwriters will be obligated to purchase all the securities of the series offered if any of the securities are purchased. Any public offering price and any discounts or concessions allowed or re-allowed or paid to dealers may be changed from time to time. The underwriters will use a prospectus supplement to sell our securities.

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If we use a dealer, we, as principal, will sell our securities to the dealer. The dealer will then sell our securities to the public at varying prices that the dealer will determine at the time it sells our securities. We will include the name of the dealer and the terms of our transactions with the dealer in the applicable prospectus supplement.

We may directly solicit offers to purchase our securities, and we may directly sell our securities to institutional or other investors. In this case, no underwriters or agents would be involved. We will describe the terms of our direct sales in the applicable prospectus supplement.

Underwriters, dealers and agents that participate in the distribution of the securities may be underwriters as defined in the Securities Act and any discounts or commissions received by them from us and any profit on their resale of the securities may be treated as underwriting discounts and commissions under the Securities Act. In connection with the sale of the securities offered by this prospectus, underwriters may receive compensation from us or from the purchasers of the securities, for whom they may act as agents, in the form of discounts, concessions or commissions. Any underwriters, dealers or agents will be identified and their compensation described in the applicable prospectus supplement. We may have agreements with the underwriters, dealers and agents to indemnify them against certain civil liabilities, including liabilities under the Securities Act, or to contribute with respect to payments which the underwriters, dealers or agents may be required to make. Underwriters, dealers and agents may engage in transactions with, or perform services for, us or our subsidiaries in the ordinary course of their business.

Unless otherwise specified in the applicable prospectus supplement, all securities offered under this prospectus will be a new issue of securities with no established trading market, other than the common stock, which is currently listed and traded on the New York Stock Exchange. We may elect to list any other class or series of securities on a national securities exchange or a foreign securities exchange but are not obligated to do so. Any common stock sold by this prospectus will be listed for trading on the New York Stock Exchange, or such other exchanges as our common stock may be listed for trading at the time of issuance, subject to official notice of issuance. We cannot give you any assurance as to the liquidity of the trading markets for any of the securities.

Any underwriter to whom securities are sold by us for public offering and sale may engage in over-allotment transactions, stabilizing transactions, syndicate covering transactions and penalty bids in accordance with Regulation M under the Exchange Act. Over-allotment transactions involve sales by the underwriters of the securities in excess of the offering size, which creates a syndicate short position. Stabilizing transactions permit bids to purchase the underlying security so long as the stabilizing bids do not exceed a specified maximum. Syndicate covering transactions involve purchases of the securities in the open market after the distribution has been completed in order to cover syndicate short positions. Penalty bids permit the underwriters to reclaim a selling concession from a syndicate member when the securities originally sold by the syndicate member are purchased in a stabilizing or syndicate covering transaction to cover syndicate short positions. These activities may cause the price of the securities to be higher than it would otherwise be. The underwriters will not be obligated to engage in any of the aforementioned transactions and may discontinue such transactions at any time without notice.

LEGAL MATTERS

The validity of the securities offered in this prospectus will be passed upon for us by Haynes and Boone, LLP, The Woodlands, Texas. Any underwriter will be advised about other issues relating to any offering by its own legal counsel. If such counsel to underwriters passes on legal matters in connection with an offering of securities made by this prospectus, and a related prospectus supplement, that counsel will be named in the applicable prospectus supplement related to that offering.

EXPERTS

The consolidated financial statements of TETRA Technologies, Inc. appearing in TETRA Technologies, Inc.'s Annual Report (Form 10-K) for the year ended December 31, 2018, and the effectiveness of TETRA Technologies, Inc.'s internal control over financial reporting as of December 31, 2018, have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their reports thereon included therein, and incorporated herein by reference. Such financial statements are, and audited financial statements to be included in subsequently filed documents will be,

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incorporated herein in reliance upon the reports of Ernst & Young LLP pertaining to such financial statements and the effectiveness of our internal control over financial reporting as of the respective dates (to the extent covered by consents filed with the Securities and Exchange Commission) given on the authority of such firm as experts in accounting and auditing.

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TETRA Technologies, Inc.

COMMON STOCK

PREFERRED STOCK

SENIOR DEBT SECURITIES

SUBORDINATED DEBT SECURITIES

WARRANTS

RIGHTS

UNITS

PROSPECTUS

The information in this prospectus is not complete and may be changed. This prospectus is not an offer to sell these securities, and we are not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

Subject to completion, dated April 11, 2019

PROSPECTUS

TETRA Technologies, Inc.

11,155,000 Shares of Common Stock Underlying Warrants

This prospectus relates to the offer and sale by us of 11,155,000 shares of our common stock, par value \$0.01 per share, that are issuable upon the exercise of outstanding warrants, or the Warrants, at an exercise price of \$5.75 per share of common stock, previously registered on our registration statement on Form S-3 (File Number 333-210335) originally filed with the Securities and Exchange Commission on March 23, 2016 and declared effective on April 13, 2016. The Warrants were previously issued on December 14, 2016. We will receive the proceeds from any cash exercises of the Warrants. Each of the Warrants is exercisable at any time until its expiration date, which such date is December 14, 2021. If all of the Warrants are exercised, we will receive aggregate proceeds of approximately \$64,141,250.

Our common stock is listed and traded on the New York Stock Exchange under the symbol "TTI." The last reported sale price of our common stock as reported on the New York Stock Exchange on April 10, 2019 was \$2.54 per share. None of the Warrants are listed, and we do not intend to apply to list them, on the New York Stock Exchange or any other national securities exchange.

Investing in our securities involves risks. Please read "Risk Factors" on page 3 of this prospectus and under similar headings in the documents that are incorporated by reference into this prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The date of this prospectus is _____, 2019.

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ABOUT THIS PROSPECTUS

This prospectus relates to the offering of our common stock issuable upon the exercise of outstanding warrants. Before investing in the common stock issuable upon the exercise of the outstanding warrants, we urge you to carefully read this prospectus, together with the information incorporated by reference as described under the headings “Where You Can Find More Information” and “Incorporation by Reference” in this prospectus. These documents contain important information that you should consider when making your investment decision.

This prospectus describes the specific terms of the securities we are offering and also adds to, and updates information contained in the documents incorporated by reference into this prospectus. To the extent there is a conflict between the information contained in this prospectus, on the one hand, and the information contained in any document incorporated by reference into this prospectus that was filed with the Securities and Exchange Commission, or SEC, before the date of this prospectus, on the other hand, you should rely on the information in this prospectus. If any statement in one of these documents is inconsistent with a statement in another document having a later date — for example, a document incorporated by reference into this prospectus — the statement in the document having the later date modifies or supersedes the earlier statement.

You should rely only on the information contained in, or incorporated by reference into, this prospectus and in any free writing prospectus that we may authorize for use in connection with this offering. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. We are not making an offer to sell or soliciting an offer to buy our securities in any jurisdiction in which an offer or solicitation is not authorized or in which the person making that offer or solicitation is not qualified to do so or to anyone to whom it is unlawful to make an offer or solicitation. You should assume that the information appearing in this prospectus, the documents incorporated by reference into this prospectus, and in any free writing prospectus that we may authorize for use in connection with this offering, is accurate only as of the date of those respective documents. Our business, financial condition, results of operations and prospects may have changed since those dates. You should read this prospectus, the documents incorporated by reference into this prospectus, and any free writing prospectus that we may authorize for use in connection with this offering, in their entirety before making an investment decision. You should also read and

consider the information in the documents to which we have referred you in the sections of this prospectus entitled “Where You Can Find More Information” and “Incorporation by Reference.”

This prospectus contains summaries of certain provisions contained in some of the documents described herein, but reference is made to the actual documents for complete information. All of the summaries are qualified in their entirety by the actual documents. Copies of some of the documents referred to herein have been filed, will be filed or will be incorporated by reference as exhibits to the registration statement of which this prospectus is a part, and you may obtain copies of those documents as described below under the section entitled “Where You Can Find More Information.”

This prospectus contains and incorporates by reference market data and industry statistics and forecasts that are based on independent industry publications and other publicly available information. Although we believe these sources are reliable, we do not guarantee the accuracy or completeness of this information and we have not independently verified this information. Although we are not aware of any misstatements regarding the market and industry data presented in this prospectus and the documents incorporated herein by reference, these estimates involve risks and uncertainties and are subject to change based on various factors, including those discussed under the heading “Risk Factors” contained in this prospectus and any related free writing prospectus, and under similar headings in the other documents that are incorporated by reference into this prospectus. Accordingly, investors should not place undue reliance on this information.

WHERE YOU CAN FIND MORE INFORMATION

We have filed a registration statement with the SEC under the Securities Act of 1933, as amended, which we refer to as the Securities Act, that registers the issuance and sale of the securities offered by this prospectus. The registration statement, including the attached exhibits, contains additional relevant information about us. The rules and regulations of the SEC allow us to omit some information included in the registration statement from this prospectus.

We file annual, quarterly, and other reports, proxy statements and other information with the SEC under the Exchange Act. Such reports, proxy statements and other information, including the registration statement, and exhibits and schedules thereto, are available to the public through the SEC’s website at <http://www.sec.gov>.

General information about us, including our annual reports on Form 10-K, quarterly reports on Form 10-Q and current reports on Form 8-K, as well as any amendments and exhibits to those reports, are available free of charge through our website at <http://www.tetrathec.com> as soon as reasonably practicable after we file them with, or furnish them to, the SEC. Information on our website is not incorporated into this prospectus or our other securities filings and is not a part of this prospectus.

INCORPORATION BY REFERENCE

The SEC allows us to “incorporate by reference” information into this document. This means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information incorporated by reference is considered to be part of this prospectus. We incorporate by reference the documents listed below, other than any portions of the respective filings that were furnished (pursuant to Item 2.02 or Item 7.01 of current reports on Form 8-K or other applicable SEC rules) rather than filed:

- our Annual Report on Form 10-K for the year ended December 31, 2018, filed with the SEC on March 4, 2019;

the information specifically incorporated by reference into such Annual Report on Form 10-K from our definitive proxy statement on Schedule 14A filed with the SEC on March 21, 2019;
our Current Reports on Form 8-K, filed with the SEC on February 25, 2019 and March 27, 2019; and
the description of our common stock contained in our registration statement on Form 8-A filed with the SEC on October 7, 1997, including any amendments and reports filed for the purpose of updating such description.

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All documents that we file pursuant to Section 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended, which we refer to as the Exchange Act, after the date of this prospectus and until our offerings hereunder are completed will be deemed to be incorporated by reference into this prospectus and will be a part of this prospectus from the date of the filing of the document. Any statement contained in a document incorporated or deemed to be incorporated by reference in this prospectus will be deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained in this prospectus or in any other subsequently filed document that also is or is deemed to be incorporated by reference in this prospectus modifies or supersedes that statement. Any statement that is modified or superseded will not constitute a part of this prospectus, except as modified or superseded.

We will provide to each person, including any beneficial owner to whom a prospectus is delivered, a copy of these filings, other than an exhibit to these filings, unless we have specifically incorporated that exhibit by reference into the filing, upon written or oral request and at no cost. Requests should be made by writing or telephoning us at the following address:

TETRA Technologies, Inc.

24955 Interstate 45 North

The Woodlands, Texas 77380

(281) 367-1983

Attn: Investor Relations

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

Some information contained in this prospectus and in the documents we incorporate by reference herein and therein may contain certain statements (other than statements of historical fact) that constitute “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Such forward-looking statements include, but are not limited to, statements concerning such things as recognition of backlog, our level of capital, cash flow, capital expenditures, current debt and equity market conditions, tax impacts, technological systems, insurance coverage, alternative suppliers, sales levels, personnel, regulatory requirements, intellectual property, growth opportunities and oil and natural gas prices, and can generally be identified by the use of words such as “anticipates,” “assumes,” “believes,” “budgets,” “could,” “estimates,” “expects,” “forecasts,” “goal,” “intends,” “may,” “might,” “plans,” “predicts,” “projects,” “schedules,” “seeks,” “should,” “targets,” “will,” and “would” expressions that convey the uncertainty of future events, activities, expectations or outcomes. However, these are not the exclusive means of identifying forward-looking statements.

Where any forward-looking statement includes a statement of the assumptions or bases underlying such forward-looking statement, we caution that, while we believe these assumptions or bases to be reasonable and to be made in good faith, assumed facts or bases almost always vary from actual results, and the difference between assumed facts or bases and actual results could be material, depending on the circumstances. It is important to note that actual results could differ materially from those projected by such forward-looking statements.

Although we believe that the expectations in our forward-looking statements are reasonable, we cannot give any assurance that those expectations will be correct. Our operations are subject to numerous uncertainties, risks and other influences, many of which are outside our control and any of which could materially affect our results of operations and ultimately prove the statements we make to be inaccurate.

Factors that could cause our results to differ materially from the results discussed in such forward-looking statements include, but are not limited to, the following:

- economic and operating conditions that are outside of our control, including the supply, demand, and prices of oil and natural gas;
 - the availability of adequate sources of capital to us;
 - the levels of competition we encounter;
 - the activity levels of our customers;
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- our operational performance;
- the availability of raw materials and labor at reasonable prices;
- risks related to acquisitions and our growth strategy;
- restrictions under our debt agreements and the consequences of any failure to comply with debt covenants;
- the effect and results of litigation, regulatory matters, settlements, audits, assessments, and contingencies;
- risks related to our foreign operations;
- information technology risks including the risk from cyberattack; and
- other risks and uncertainties under “Item 1A. Risk Factors” in our Annual Report on Form 10-K for the year ended December 31, 2018, those set forth in Item 1A “Risk Factors” in our Quarterly Reports on Form 10-Q, and as included in our other filings with the U.S. Securities and Exchange Commission, or the SEC, which are available free of charge on the SEC website at www.sec.gov.

The risks and uncertainties referred to above are generally beyond our ability to control and we cannot predict all the risks and uncertainties that could cause our actual results to differ from those indicated by the forward-looking statements. If any of these risks or uncertainties materialize, or if any of the underlying assumptions prove incorrect, actual results may vary from those indicated by the forward-looking statements, and such variances may be material.

All subsequent written and oral forward-looking statements made by or attributable to us or to persons acting on our behalf are expressly qualified in their entirety by reference to these risks and uncertainties. You should not place undue reliance on forward-looking statements. Each forward-looking statement speaks only as of the date of the particular statement, and we undertake no obligation to update or revise any forward-looking statements we may make, except as may be required by law.

summary

This summary highlights information contained elsewhere in this prospectus or incorporated herein by reference. This summary does not contain all of the information that may be important to you. You should read this entire prospectus carefully, including the risks discussed under “Risk Factors” and “Cautionary Statement Regarding Forward-Looking Statements” included elsewhere in this prospectus and the consolidated financial statements and notes thereto and other information incorporated by reference herein. Unless otherwise indicated or unless the context otherwise requires, all references in this prospectus to “TETRA,” “TETRA Technologies,” “our company,” “we,” “our,” “us” or similar references mean TETRA Technologies, Inc. and its consolidated subsidiaries.

Overview

We are a geographically diversified oil and gas services company, focused on completion fluids and associated products and services, comprehensive water management, frac flowback, production well testing and offshore rig cooling services, and compression services and equipment. We are composed of three reporting segments organized into three Divisions - Completion Fluids & Products, Water & Flowback Services, and Compression.

Our Completion Fluids & Products Division manufactures and markets clear brine fluids, additives, and associated products and services to the oil and gas industry for use in well drilling, completion and workover operations in the United States and in certain countries in Latin America, Europe, Asia, the Middle East and Africa. The Division also markets liquid and dry calcium chloride products manufactured at its production facilities or purchased from third-party suppliers to a variety of markets outside the energy industry.

Our Water & Flowback Services Division provides onshore oil and gas operators with comprehensive water management services. The Division also provides frac flowback, production well testing, offshore rig cooling, and other associated services in many of the major oil and gas producing regions in the United States, Mexico, and Canada, as well as in oil and gas basins in certain regions in South America, Africa, Europe, the Middle East and Australia.

Our Compression Division is a provider of compression services and equipment for natural gas and oil production, gathering, transportation, processing, and storage. The Compression Division's equipment sales business includes the fabrication and sale of standard compressor packages and custom-designed compressor packages designed and fabricated at the Division's facilities. The Compression Division's aftermarket business provides compressor package reconfiguration and maintenance services and compressor package parts and components manufactured by third-party suppliers. The Compression Division provides its services and equipment to a broad base of natural gas and oil exploration and production, midstream, transmission, and storage companies operating throughout many of the onshore producing regions of the United States, as well as in a number of foreign countries, including Mexico, Canada and Argentina.

We continue to pursue a long-term growth strategy that includes expanding our core businesses, through internal growth and acquisitions, domestically and internationally.

Company Information

We were incorporated in Delaware in 1981. Our corporate headquarters are located at 24955 Interstate 45 North in The Woodlands, Texas 77380. Our phone number is (281) 367-1983 and our website may be accessed at www.tetratec.com. Information on our website is not incorporated into this prospectus or our other securities filings and is not a part of this prospectus.

The Offering

Issuer: TETRA Technologies, Inc.

Securities offered: This offering involves the offer and sale of 11,155,000 shares of our common stock issuable upon the exercise of the Warrants at an exercise price of \$5.75 per share. Each of the Warrants is exercisable at any time until its expiration date, which such date is December 14, 2021. If all of the Warrants are exercised, we will receive aggregate proceeds of approximately \$64,141,250.

Use of proceeds: Please see “Use of Proceeds” on page 5 of this prospectus for more information.

Risk factors: An investment in our securities involves a high degree of risk. See “Risk Factors” beginning on page 3 of this prospectus, as well as the other information included in or incorporated by reference in this prospectus for a discussion of risks you should carefully consider before investing in our securities.

New York Stock Exchange symbol: Our common stock is listed on the New York Stock Exchange under the symbol “TTI”.

Transfer Agent: Computershare Trust Company, N.A.

RISK FACTORS

An investment in our securities involves various risks. You should carefully consider the matters discussed under “Risk Factors” in our Annual Report on Form 10-K for the year ended December 31, 2018, as well as other information we have provided in this prospectus and the documents incorporated by reference herein, before reaching a decision regarding an investment in our securities. The risks described below and cross-referenced in the documents above are not the only risks we face. Additional risks not presently known to us or that we currently deem immaterial may also impair our business operations.

Risks related to our common stock

Our common stock has experienced, and may continue to experience, price volatility.

The market price of our common stock may decline from its current levels in response to various factors and events beyond our control, including the following:

- operating results that vary from the expectations of securities analysts and investors;
- changes in expectations regarding our future financial performance, including financial estimates by securities analysts and investors;
 - general conditions in our industry, including levels of government funding for infrastructure projects;
- announcements by us or our competitors of significant contracts, acquisitions, strategic partnerships, joint ventures, financings or capital commitments;
- changes in laws and regulations;
- general economic and competitive conditions;
- the limited trading volume of our common stock;
- our issuance of a significant number of shares of our common stock, including upon exercise of employee stock options or warrants; and
 - the other risk factors described herein or incorporated by reference from our Annual Report on Form 10-K for the year ended December 31, 2018.

We currently do not intend to pay dividends on our common stock and, consequently, you will achieve a positive return on your investment in our common stock only if the market price of our common stock appreciates above the price that you pay for it.

We have never paid any cash dividends on our common stock. For the foreseeable future, we intend to retain any earnings in our business, and we do not anticipate paying any cash dividends. Whether or not we declare any dividends will be at the discretion of the board of directors considering then-existing conditions, including our financial condition and results of operations, capital requirements, bonding prospects, contractual restrictions (including those under our debt agreements), business prospects and other factors that our board of directors considers relevant. Consequently, your only opportunity to achieve a return on your investment in our company will be if the market price of our common stock appreciates and you are able to sell your shares at a profit.

Future sales or the possibility of future sales of our common stock in the public market could lower our stock price.

We may issue our common stock from time to time in connection with this offering, other offerings or as consideration for future acquisitions and investments. In the event that any such offering, acquisition or investment is significant, the number of shares of our common stock that we may issue could in turn be significant. In addition, we may also grant registration rights covering those shares in connection with any such acquisition and investment.

We cannot predict the size of future issuances of our common stock or the effect, if any, that future issuances and sales of our common stock will have on the market price of our common stock. Sales of

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substantial amounts of our common stock (including shares of our common stock issued in connection with an acquisition or compensation or incentive plan), or the perception that sales could occur, may adversely affect prevailing market prices for our common stock.

Delaware law and our charter documents may impede or discourage a takeover or change of control.

Certain provisions of our certificate of incorporation, our bylaws and the provisions of Delaware law, individually or collectively, may impede a merger, takeover or other business combination involving us or discourage a potential acquirer from making a tender offer for our common stock, which could affect the market price of our common stock.

Risks related to this offering

Each purchaser in this offering will experience immediate and substantial dilution in the net tangible book value per share of common stock it purchases in this offering.

The exercise price of the Warrants per share of common stock being offered may be substantially higher than the net tangible book value per share of our common stock, and you may suffer substantial dilution in the net tangible book value of the shares you purchase in this offering upon the exercise of the Warrants. Assuming that all 11,155,000 shares of our common stock are sold in this offering, the purchasers will suffer immediate and substantial dilution of \$4.77 per share, representing the difference between the exercise price of \$5.75 per share and our as adjusted net tangible book value per share as of December 31, 2018 after giving effect to this offering. See the section entitled “Dilution” below for a more detailed discussion of the dilution the purchasers will incur if they purchase our securities in this offering.

The purchasers in this offering may experience future dilution.

In order to raise additional capital, we may in the future offer additional shares of common stock or other securities convertible into, or exchangeable for, our common stock at prices that may not be the same as the price per share in this offering. We have an effective shelf registration statement from which additional shares and other securities can be offered. We cannot assure you that we will be able to sell common stock or other securities in any other offering at a price per share that is equal to or greater than the exercise price per share of the Warrants in this offering. If the price per share at which we sell additional common stock or related securities in future transactions is less than the exercise price per share of the Warrants in this offering, investors who purchase our common stock in this offering will suffer a dilution of their investment. Investors may incur dilution upon vesting of any restricted share units or upon exercise of any outstanding stock options.

USE OF PROCEEDS

We estimate that our net proceeds from the sale of 11,155,000 shares of our common stock in this offering, assuming the exercise of the Warrants in full, will be approximately \$64,141,250.

We intend to use the net proceeds from this offering to repay existing indebtedness.

On September 10, 2018, we entered into a credit agreement, or, the “ABL Credit Agreement,” with a syndicate of lenders, including JPMorgan Chase Bank, N.A., as administrative agent, providing for a senior secured revolving credit facility of up to \$100 million, subject to a borrowing base to be determined by reference to the value of inventory and accounts receivable, and including a sublimit of \$20.0 million for letters of credit and a swingline loan sublimit of \$10.0 million. As of March 31, 2019, we had \$30.7 million of borrowings and \$9.0 million letters of credit outstanding under our ABL Credit Agreement. The average interest rate on the amounts outstanding under our ABL Credit Agreement during the three months ended March 31, 2019 was approximately 5.5%. Borrowings under the ABL Credit Agreement were used to repay certain of our debt existing on the effective date of the ABL Credit Agreement and may be used for working capital needs, capital expenditures and other general corporate purposes, including acquisitions.

On September 10, 2018, we entered into a term credit agreement, or, the “Term Credit Agreement,” with a syndicate of lenders, including Wilmington Trust, National Association, as administrative agent, providing for an initial term loan in the amount of \$200.0 million and the availability of additional loans, up to an aggregate amount of \$75.0 million for certain acquisitions. As of March 31, 2019, \$200.0 million in aggregate principal amount was outstanding under the Term Credit Agreement. The average interest rate on the loans outstanding under the Term Credit Agreement during the three months ended March 31, 2019 was approximately 8.74%. The net proceeds from the Term Credit Agreement were used to prepay outstanding indebtedness under the 11% Senior Secured Notes due November 5, 2022 and indebtedness under our prior bank credit agreement.

DILUTION

If you purchase shares of our common stock upon the exercise of any of the Warrants, your ownership interest will be diluted to the extent of the difference between the exercise price per share and the net tangible book value per share of our common stock.

The net tangible book value of our common stock as of December 31, 2018, was approximately \$69.5 million, or approximately \$0.55 per share. Net tangible book value per common share represents the amount of our total tangible assets (total assets less goodwill, intangible assets and deferred costs), less total liabilities (all exclusive of amounts pertaining to noncontrolling interests), divided by the total number of shares of our common stock outstanding. Dilution per share to new investors represents the difference between the amount per share paid by purchasers for each share of common stock in this offering and the net tangible book value per share of our common stock immediately following the completion of this offering, assuming the Warrants are fully exercised.

After giving effect to the sale of 11,155,000 shares of our common stock to investors exercising the Warrants for cash at an exercise price of \$5.75 per share, the as-adjusted net tangible book value of our common stock as of December 31, 2018 would have been approximately \$133.6 million, or approximately \$0.98 per share. This represents an immediate increase in net tangible book value of approximately \$0.43 per share to our existing stockholders and an immediate dilution in as-adjusted net tangible book value of approximately \$4.77 per share to investors exercising the Warrants, as illustrated by the following table:

Exercise price per share of the Warrants	\$5.75
Net tangible book value per common share as of December 31, 2018	\$0.55
Increase per share attributable to this offering	\$0.43
As-adjusted net tangible book value per common share as of December 31, 2018, after giving effect to this offering	\$0.98
Dilution per share to investors purchasing shares in this offering upon exercise of the Warrants	\$4.77

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The table above assumes, for illustrative purposes only, that all 11,155,000 shares of our common stock are sold in this offering upon the exercise of the Warrants for cash for aggregate gross proceeds of \$64,141,250.

The table above is based on 125,737,565 shares of our common stock outstanding as of December 31, 2018 and excludes as of such date:

- 11,155,000 shares of our common stock issuable upon exercise of warrants outstanding as of December 31, 2018, with a weighted-average exercise price of \$5.75 per share;
- 3,323,916 shares of our common stock issuable upon exercise of stock options outstanding as of December 31, 2018, with a weighted-average exercise price of \$7.48 per share; and
- 6,373,059 shares of our common stock reserved for future grant under our 2018 Equity Incentive Plan, 2018 Non-Employee Director Incentive Plan and 2018 Inducement Plan.

To the extent that any outstanding options or warrants are exercised, new awards are issued under our equity incentive plans, or we otherwise issue additional shares of common stock in the future at prices per share below the price per share for any shares sold in this offering upon exercise of the Warrants, there will be further dilution to new investors.

Description of capital stock

The following is a summary of the material terms and provisions of our capital stock. You should refer to the applicable provisions of our restated certificate of incorporation, as amended, our amended and restated bylaws and the documents that we have incorporated by reference for a complete statement of the terms and rights of our capital stock.

As of December 31, 2018, our authorized capital stock was 255,000,000 shares, which includes 250,000,000 shares authorized as common stock, \$0.01 par value, and 5,000,000 shares authorized as preferred stock, \$0.01 par value. As of December 31, 2018, we had 125,737,565 shares of common stock outstanding. There were no shares of preferred stock outstanding as of such date.

Common Stock

Listing. Our common stock is listed on the New York Stock Exchange under the symbol “TTI.”

Dividends. Subject to the rights of holders of preferred stock, common stockholders may receive dividends when declared by the board of directors. Dividends may be paid in cash, stock or another form. However, our existing credit agreements contain covenants that restrict our ability to pay dividends.

Fully Paid. All outstanding shares of common stock are, and the common stock offered by this prospectus and any prospectus supplement will be, fully paid and non-assessable upon issuance.

Voting Rights. Common stockholders are entitled to one vote in the election of directors and other matters for each share of common stock owned. Common stockholders are not entitled to preemptive or cumulative voting rights.

Other Rights. We will notify common stockholders of any stockholders’ meetings in accordance with applicable law. If we liquidate, dissolve or wind-up our business, either voluntarily or not, common stockholders will share equally in the assets remaining after we pay our creditors and preferred stockholders. There are no redemption or sinking fund provisions applicable to the common stock.

Transfer Agent and Registrar. Our transfer agent and registrar is Computershare Trust Company, N.A. located in Providence, Rhode Island.

Preferred Stock

Our board of directors can, without approval of our stockholders, issue one or more series or classes of preferred stock from time to time limited by the number of shares of preferred stock then authorized. The board can also determine the number of shares of each series and the rights, preferences and limitations of each series or class, including the dividend rights, voting rights, conversion rights, redemption rights and any liquidation preferences of any series or class of preferred stock and the terms and conditions of issue.

If we offer shares of preferred stock, the specific terms will be described in a prospectus supplement, including:

- the specific designation, number of shares, seniority and purchase price;
- any liquidation preference per share;
- any date of maturity;
- any redemption, repayment or sinking fund provisions;
-

any dividend rate or rates and the dates on which any such dividends will be payable (or the method by which such rates or dates will be determined);

any voting rights;

if other than the currency of the United States, the currency or currencies, including composite currencies, in which such preferred stock is denominated and/or in which payments will or may be payable;

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- the method by which amounts in respect of such preferred stock may be calculated and any commodities, currencies or indices, or value, rate or price, relevant to such calculation;
- whether such preferred stock is convertible or exchangeable and, if so, the securities or rights into which such preferred stock is convertible or exchangeable, and the terms and conditions upon which such conversions or exchanges will be effected, including conversion or exchange prices or rates, the conversion or exchange period and any other related provisions;
- the place or places where dividends and other payments on the preferred stock will be payable; and
- any additional voting, dividend, liquidation, redemption and other rights, preferences, privileges, limitations and restrictions.

In some cases, the issuance of preferred stock could delay a change in control of us and make it more difficult to remove present management. Under certain circumstances, preferred stock could also restrict dividend payments to common stockholders.

Certain Provisions of Our Certificate of Incorporation, Bylaws and Law

Our restated certificate of incorporation, as amended, and amended and restated bylaws contain provisions that may render more difficult possible takeover proposals to acquire control of us and make removal of our management more difficult. Below is a description of certain of these provisions in our restated certificate of incorporation, as amended, and amended and restated bylaws.

Our restated certificate of incorporation, as amended, authorizes a class of undesignated preferred stock consisting of 5,000,000 shares. Preferred stock may be issued from time to time in one or more series, and our board of directors, without further approval of the stockholders, is authorized to fix the designations, powers, preferences, and rights applicable to each series of preferred stock. The purpose of authorizing the board of directors to determine such designations, powers, preferences, and rights is to allow such determinations to be made by the board of directors instead of the stockholders and to avoid the expense of, and eliminate delays associated with, a stockholder vote on specific issuances. The issuance of preferred stock, while providing flexibility in connection with possible acquisitions and other corporate purposes, could, among other things, adversely affect the voting power of the holders of common stock and, under some circumstances, make it more difficult for a third party to gain control of us.

Our restated certificate of incorporation, as amended, authorizes the board of directors to create and issue rights entitling the holders thereof to purchase shares of our capital stock or other securities. The times at which and the terms upon which these rights are to be issued will be determined by the board of directors and set forth in the contracts or instruments that evidence such rights. The authority of the board of directors with respect to such rights shall include, but not be limited to, determination of the following:

- the initial purchase price per share of our capital stock or other securities to be purchased upon exercise of such rights;
- provisions relating to the times at which and the circumstances under which such rights may be exercised or sold or otherwise transferred, either together with or separately from, any other of our securities;
- provisions that adjust the number or exercise price of such rights or amount or nature of the securities or other property receivable upon exercise of such rights in the event of a combination, split or recapitalization of any capital stock, a change in ownership of our securities or a reorganization, merger, consolidation, sale of assets or other occurrence relating to us or any of our capital stock, and provisions restricting the ability of us to enter into any such transaction absent an assumption by the other party or parties thereto of our obligations under such rights;
- provisions that deny the holder of a specified percentage of our outstanding securities the right to exercise such rights and/or cause such rights held by such holder to become void;
- provisions that permit us to redeem such rights;

the appointment of rights agent with respect to such rights;

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the issuance of such rights could, among other things, adversely affect the voting power of the holders of common stock and, under some circumstances, make it more difficult for a third party to gain control of us; and such other provisions relating to such rights as may be determined by the board of directors. Our restated certificate of incorporation, as amended, provides that, subject to the rights of holders of any preferred stock, any action required or permitted to be taken by our stockholders must be taken at an annual or special meeting of stockholders and not by written consent.

Our restated certificate of incorporation, as amended, precludes the ability of our stockholders to call meetings of stockholders. Except as may be required by law and subject to the holders of rights of preferred stock, special meetings of stockholders may be called only by our chairman of the board or by our board of directors pursuant to a resolution adopted by a majority of the members of the board of directors.

Our amended and restated bylaws contain specific procedures for stockholder nomination of directors. These provisions require advance notification that must be given in accordance with the provisions of our bylaws, as amended. The procedure for stockholder nomination of directors may have the effect of precluding a nomination for the election of directors at a particular meeting if the required procedure is not followed.

Although Section 214 of the Delaware General Corporation Law, or “DGCL,” provides that a corporation’s certificate of incorporation may provide for cumulative voting for directors, our restated certificate of incorporation, as amended, does not provide for cumulative voting. As a result, the holders of a majority of the votes of the outstanding shares of our common stock have the ability to elect all of the directors being elected at any annual meeting of stockholders.

As a Delaware corporation, we are subject to Section 203, or the business combination statute, of the DGCL. Under the business combination statute of the DGCL, a corporation is generally restricted from engaging in a business combination (as defined in Section 203 of the DGCL) with an interested stockholder (defined generally as a person owning 15% or more of the corporation’s outstanding voting stock) for a three-year period following the time the stockholder became an interested stockholder. This restriction applies unless:

- prior to the time the stockholder became an interested stockholder, the board of directors of the corporation approved either the business combination or the transaction which resulted in the stockholder becoming an interested stockholder;
- the interested stockholder owned at least 85% of the voting stock of the corporation upon completion of the transaction which resulted in the stockholder becoming an interested stockholder (excluding stock held by the corporation’s directors who are also officers and by the corporation’s employee stock plans, if any, that do not provide employees with the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer); or
- at or subsequent to the time the stockholder became an interested stockholder, the business combination was approved by the board of directors of the corporation and authorized by the affirmative vote, at an annual or special meeting, and not by written consent, of at least 66 2/3% of the outstanding voting shares of the corporation, excluding shares held by that interested stockholder.

The provisions of the Delaware business combination statute do not apply to a corporation if, subject to certain requirements specified in Section 203(b) of the DGCL, the certificate of incorporation or bylaws of the corporation contain a provision expressly electing not to be governed by the provisions of the statute or the corporation does not have voting stock listed on a national securities exchange or held of record by more than 2,000 stockholders. We have not adopted any provision in our restated certificate of incorporation, as amended, or amended and restated bylaws electing not to be governed by the Delaware business combination statute. As a result, the statute is applicable to business combinations involving us.

Liability and Indemnification of Officers and Directors

Our restated certificate of incorporation, as amended, provides for indemnification of our directors and officers to the full extent permitted by applicable law. Our amended and restated bylaws also provide that directors and officers shall be indemnified against liabilities arising from their service as directors or officers to the fullest extent permitted by law, which generally requires that the individual act in good faith and in a manner he or she reasonably believes to be in or not opposed to our best interests.

We have also entered into indemnification agreements with all of our directors and elected officers. The indemnification agreements provide that we will indemnify these officers and directors to the fullest extent permitted by our restated certificate of incorporation, as amended, amended and restated bylaws and applicable law. The indemnification agreements also provide that these officers and directors shall be entitled to the advancement of fees as permitted by applicable law and sets out the procedures required under the agreements for determining entitlement to and obtaining indemnification and expense advancement.

We also have director and officer liability insurance for the benefit of each of the above indemnitees. These policies include coverage for losses for wrongful acts and omissions. Each of the indemnitees are named as an insured under such policies and provided with the same rights and benefits as are accorded to the most favorably insured of our directors and officers.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or persons controlling the registrant pursuant to the foregoing provisions, we have been informed that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

PLAN OF DISTRIBUTION

The common stock offered under this prospectus will be offered solely by us and will be issued and sold upon the exercise of the Warrants described in this prospectus. The warrant holders must surrender payment in cash of the aggregate exercise price of the shares being acquired upon exercise of the Warrants. If, however, we are unable to offer and sell the shares underlying the Warrants pursuant to this prospectus due to the ineffectiveness of the registration statement of which this prospectus is a part, then the Warrants may only be exercised on a “net” or “cashless” basis. No fractional shares of common stock will be issued in connection with the exercise of a Warrant. In lieu of fractional shares, we will pay the holder an amount in cash equal to the fractional amount multiplied by the exercise price.

LEGAL MATTERS

The validity of the common stock offered in this prospectus will be passed upon for us by Haynes and Boone, LLP, The Woodlands, Texas.

EXPERTS

The consolidated financial statements of TETRA Technologies, Inc. appearing in TETRA Technologies, Inc.’s Annual Report (Form 10-K) for the year ended December 31, 2018, and the effectiveness of TETRA Technologies, Inc.’s internal control over financial reporting as of December 31, 2018, have been audited by Ernst & Young LLP, independent registered public accounting firm, as set forth in their reports thereon included therein, and incorporated herein by reference. Such financial statements are, and audited financial statements to be included in subsequently filed documents will be, incorporated herein in reliance upon the reports of Ernst & Young LLP pertaining to such

financial statements and the effectiveness of our internal control over financial reporting as of the respective dates (to the extent covered by consents filed with the Securities and Exchange Commission) given on the authority of such firm as experts in accounting and auditing.

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TETRA Technologies, Inc.

11,155,000 Shares of Common Stock Underlying Warrants

PROSPECTUS

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 14. Other Expenses of Issuance and Distribution.

The following table sets forth the costs and expenses, other than selling or underwriting discounts and commissions, to be incurred by us in connection with the issuance and distribution of the securities being registered hereby.

SEC registration fee	\$51,708*
FINRA filing fee (if applicable)	**
Printing and mailing expenses	**
Legal fees and expenses	**
Trustee fees and expenses	**
Accounting fees and expenses	**
Miscellaneous	**
Total	\$**

* Includes the \$22,342 previously paid in connection with the unsold securities pursuant to Rule 415(a)(6).

** Estimated expenses are not presently known. The foregoing sets forth the general categories of expenses (other than underwriting discounts and commissions) that the registrant anticipates that it will incur in connection with the offering of securities under this registration statement. An estimate of the aggregate expenses in connection with the issuance and distribution of the securities being offered will be included in the applicable prospectus supplement.

Item 15. Indemnification of Directors and Officers.

Delaware Corporation

TETRA Technologies, Inc. is incorporated under the laws of the State of Delaware. Subsection (a) of Section 145 of the General Corporation Law of the State of Delaware empowers a corporation to indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation) by reason of the fact that he or she is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by him or her in connection with such action, suit or proceeding if he or she acted in good faith and in a manner he or she reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe his or her conduct was unlawful.

Subsection (b) of Section 145 empowers a corporation to indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the corporation to procure a judgment in its favor by reason of the fact that such person acted in any of the capacities set forth above, against expenses (including attorneys' fees) actually and reasonably incurred by him or her in connection with the defense or settlement of such action or suit if he or she acted in good faith and in a manner that he or she reasonably believed to be in or not opposed to the best interests of the corporation, except that no indemnification may be made in

respect of any claim, issue or matter as to which such person shall have been made to be liable to the corporation unless and only to the extent that the Court of Chancery or the court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all of the circumstances of the case, such person is fairly and reasonably entitled to indemnity for such expenses which the Court of Chancery or such other court shall deem proper.

Section 145 further provides that to the extent a director or officer of a corporation has been successful on the merits or otherwise in the defense of any action, suit or proceeding referred to in subsections (a) and (b) of Section 145 in the defense of any claim, issue or matter therein, he or she shall be indemnified against expenses (including attorneys' fees) actually and reasonably incurred by him or

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her in connection therewith; that indemnification provided for by Section 145 shall not be deemed exclusive of any other rights to which the indemnified party may be entitled; that indemnification provided for by Section 145 shall, unless otherwise provided when authorized or ratified, continue as to a person who has ceased to be a director, officer, employee or agent and shall inure to the benefit of such person's heirs, executors and administrators; and empowers the corporation to purchase and maintain insurance on behalf of a director or officer of the corporation against any liability asserted against him or her and incurred by him or her in any such capacity, or arising out of his or her status as such whether or not the corporation would have the power to indemnify him or her against such liabilities under Section 145.

TETRA Technologies' restated certificate of incorporation, as amended, provides for indemnification of TETRA Technologies' directors and officers to the full extent permitted by applicable law. TETRA Technologies' amended and restated bylaws also provide that its directors and officers shall be indemnified against liabilities arising from their service as directors or officers to the fullest extent permitted by law, which generally requires that the individual act in good faith and in a manner he or she reasonably believes to be in or not opposed to TETRA Technologies' best interests.

Section 102(b)(7) of the General Corporation Law of the State of Delaware provides that a certificate of incorporation may contain a provision eliminating or limiting the personal liability of a director to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director provided that such provision shall not eliminate or limit the liability of a director (i) for any breach of the director's duty of loyalty to the corporation or its stockholders, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) under Section 174 of the Delaware General Corporation Law or (iv) for any transaction from which the director derived an improper personal benefit. In accordance with the Section 102(b)(7) of the General Corporation Law of the State of Delaware, TETRA Technologies' restated certificate of incorporation, as amended, contains a provision that generally eliminates the personal liability of directors for monetary damages for breaches of their fiduciary duty, subject to limitations of Section 102(b)(7).

TETRA Technologies has also entered into indemnification agreements with all of its directors and elected officers. The indemnification agreements provide that TETRA Technologies will indemnify these officers and directors to the fullest extent permitted by its restated certificate of incorporation, as amended, amended and restated bylaws and applicable law. The indemnification agreements also provide that these officers and directors shall be entitled to the advancement of fees as permitted by applicable law and sets out the procedures required under the agreements for determining entitlement to and obtaining indemnification and expense advancement.

TETRA Technologies maintains insurance policies that provide coverages to its directors and officers against certain liabilities.

Insofar as indemnification for liabilities arising under the Securities Act of 1933, as amended, may be permitted to directors, officers or persons controlling the registrant pursuant to the foregoing provisions, the registrant has been informed that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is therefore unenforceable.

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Item 16. Exhibits.

Exhibit

No. Description of Exhibit

1.1** Form of Underwriting Agreement for each of the securities registered hereby.

4.1 Restated Certificate of Incorporation of TETRA Technologies, Inc. (incorporated by reference to Exhibit 4.1 to the Company's Registration Statement on Form S-8 filed on December 22, 2016 (SEC File No. 333-215283)).

4.2 Certificate of Amendment of Restated Certificate of Incorporation of TETRA Technologies, Inc. (incorporated by reference to Exhibit 3.1 to the Company's Quarterly Report filed on August 9, 2017 (SEC File No. 001-13455)).

4.3 Amended and Restated Bylaws of TETRA

- Technologies, Inc. (incorporated by reference to Exhibit 4.6 to the Company's Registration Statement on Form S-8 filed on May 4, 2006 (SEC File No. 333-133790)).
- 4.4 Specimen Common Stock Certificate of TETRA Technologies, Inc. (incorporated by reference to Exhibit 4.1 to the Company's Registration Statement on Form S-1 filed on February 23, 1990 (SEC File No. 33-33586)).
- 4.5 Warrant Agreement, dated December 14, 2016, between TETRA Technologies, Inc. and Computershare Trust Company, N.A. (incorporated by reference to Exhibit 4.1 to the Company's Form 8-K filed on December 14, 2016 (SEC File No. 001-13455)).
- 4.6 Form of Warrant

- Certificate,
dated
December 14,
2016, between
TETRA
Technologies,
Inc. and
Computershare
Trust
Company, N.A.
(incorporated
by reference to
Exhibit 4.1
Exhibit A to the
Company's
Form 8-K filed
on December
14, 2016 (SEC
File No.
001-13455)).
- 4.7 Credit
Agreement,
dated
September 10,
2018, between
TETRA
Technologies,
Inc. and
JPMorgan
Chase Bank
(incorporated
by reference to
Exhibit 10.1 to
the Company's
Form 8-K filed
on September
13, 2018 (SEC
File No.
001-13455)).
- 4.8 Credit
Agreement,
dated
September 10,
2018, between
TETRA
Technologies,
Inc. and
Wilmington
Trust, National
Association
(incorporated

- by reference to Exhibit 10.2 to the Company's Form 8-K filed on September 13, 2018 (SEC File No. 001-13455)).
- 4.9 Intercreditor Agreement, dated September 10, 2018, among TETRA Technologies, Inc., JPMorgan Chase Bank, and Wilmington Trust, National Association (incorporated by reference to Exhibit 10.3 to the Company's Form 8-K filed on September 13, 2018 (SEC File No. 001-13455)).
- 4.10* Form of Senior Indenture (including form of senior debt security).
- 4.11* Form of Subordinated Indenture (including form of subordinated debt security).
- 4.12** Form of Certificate of Designation for the Preferred Stock.
- 4.13** Specimen Preferred Stock Certificate of TETRA Technologies,

Inc.

4.14** Form of
Warrant
Agreement
(including form
of warrant
certificate).

4.15** Form of Rights
Agreement
(including form
of right
certificate).

4.16** Form of Unit
Agreement
(including form
of unit
certificate).

5.1* Opinion of
Haynes and
Boone, LLP
regarding
legality of
securities to be
registered.

23.1* Consent of
Haynes and
Boone, LLP
(included in
Exhibit 5.1).

23.2* Consent of
Ernst & Young
LLP.

24.1* Power of
Attorney
(included on
signature
pages).

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- 25.1* Form T-1
Statement of
Eligibility
and
Qualification
of Trustee
under Trust
Indenture Act
of 1939
regarding the
senior debt
securities.
- 25.2* Form T-1
Statement of
Eligibility
and
Qualification
of Trustee
under Trust
Indenture Act
of 1939
regarding the
subordinated
debt
securities.

* Filed herewith.

**To be filed by amendment or as an exhibit to Current Report on Form 8-K filed at a later date in connection with a specific offering.

Item 17. Undertakings.

A. The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(a) To include any prospectus required by section 10(a)(3) of the Securities Act of 1933;

(b) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and

(c) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in this registration statement;

provided, however, that paragraphs A(1)(a), A(1)(b) and A(1)(c) above do not apply if the registration statement is on Form S-3 and the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the SEC by the registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

(2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

(3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.

(4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:

(a) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement: and

(b) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5), or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person

that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. Provided, however, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date; or

(5) That, for the purpose of determining liability of the registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities, the undersigned registrant undertakes that in a primary offering of securities of the undersigned registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:

(a) Any preliminary prospectus or prospectus of the undersigned registrant relating to the offering required to be filed pursuant to Rule 424;

(b) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned registrant or used or referred to by the undersigned registrant;

(c) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned registrant or its securities provided by or on behalf of the undersigned registrant; and

(d) Any other communication that is an offer in the offering made by the undersigned registrant to the purchaser.

B. The undersigned registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the registrant's annual report pursuant to section 13(a) or section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered herein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

C. Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the registrant pursuant to the provisions described under Item 15 above, or otherwise, the registrant has been advised that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the registrant of expenses incurred or paid by a director, officer or controlling person of the registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

D. The undersigned registrant hereby undertakes:

(1) For purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance on Rule 430A and contained in a form of

prospectus filed by the registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.

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(2) For the purpose of determining any liability under the Securities Act of 1933, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

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SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in The Woodlands, Texas on April 11, 2019.

TETRA Technologies, Inc.

By: /s/ Bass C. Wallace, Jr.
Bass C. Wallace, Jr.
Senior Vice President and

General Counsel

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that each of the undersigned officers and directors of TETRA Technologies, Inc. hereby constitutes and appoints Brady M. Murphy and Bass C. Wallace, Jr., and each of them individually, as his true and lawful attorneys-in-fact and agents, with full power of substitution, for him and on his behalf and in his name, place and stead, in any and all capacities, to sign, execute and file any or all amendments (including, without limitation, post-effective amendments) to this registration statement and any and all registration statements pursuant to Rule 462(b) of the Securities Act of 1933, with any and all exhibits thereto, and all other documents required to be filed therewith, with the Securities and Exchange Commission or any regulatory authority, granting unto each such attorney-in-fact and agent, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises in order to effectuate the same, as fully to all intents and purposes as he himself might or could do, if personally present, hereby ratifying and confirming all that said attorneys-in-fact and agents, or either of them, or their or his substitutes or substitute, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed below by the following persons in the capacities and on the dates indicated.

SIGNATURE	TITLE	DATE
/s/ William D. Sullivan	Chairman of the Board of Directors	April 11, 2019
William D. Sullivan		
/s/ Stuart M. Brightman	Chief Executive Officer and Director	April 11, 2019
Stuart M. Brightman (Principal Executive Officer)		
/s/ Eljio V. Serrano	Senior Vice President and Chief Financial Officer	April 11, 2019

Elijio V. Serrano (Principal Financial Officer)

/s/ Richard D. O'Brien April 11, 2019
Vice President – Finance & Global Controller (Principal Accounting Officer)

Richard D. O'Brien

/s/ Mark E. Baldwin Director April 11, 2019
Mark E. Baldwin

/s/ Thomas R. Bates, Jr. Director April 11, 2019
Thomas R. Bates, Jr.

/s/ Paul D. Coombs Director April 11, 2019
Paul D. Coombs

/s/ John F. Glick Director April 11, 2019
John F. Glick

/s/ Gina A. Luna Director April 11, 2019
Gina A. Luna

/s/Brady M. Murphy Director April 11, 2019
Brady M. Murphy

/s/ Joseph C. Winkler III Director April 11, 2019
Joseph C. Winkler III