

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

**FORM S-3
REGISTRATION STATEMENT
Under
THE SECURITIES ACT OF 1933**

ORION ENERGY SYSTEMS, INC.
(Exact name of registrant as specified in its charter)

Wisconsin
(State or other jurisdiction of
incorporation or organization)

39-1847269
(I.R.S. Employer
Identification No.)

2210 Woodland Drive
Manitowoc, Wisconsin 54220
(920) 892-9340

(Address, including zip code, and telephone number, including area code, of registrant's principal executive offices)

John H. Scribante
Chief Executive Officer
Orion Energy Systems, Inc.
2210 Woodland Drive
Manitowoc, Wisconsin 54220
(920) 892-9340

(Name, address, including zip code, and telephone number, including area code, of agent for service)

with a copy to:
Steven R. Barth, Esq.
Foley & Lardner LLP
777 East Wisconsin Avenue
Milwaukee, Wisconsin 53202
(414) 271-2400

Approximate date of commencement of proposed sale to the public: From time to time after this registration statement becomes effective.

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, please 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, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer (Do not check if a smaller reporting company)

Smaller reporting company

CALCULATION OF REGISTRATION FEE

Title of each class of securities to be registered	Amount to be registered(3)(4)	Proposed maximum offering price per share(4)	Proposed maximum aggregate offering price(4)(5)	Amount of registration fee
Primary Offering:				
Debt Securities				
Common Stock, no par value, with attached Common Share Purchase Rights(1)				
Preferred Stock, \$.01 par value				
Warrants				
Subscription Rights				
Stock Purchase Contracts				
Stock Purchase Units(2)				
Total Primary Offering	-	-	\$75,000,000(6)	\$8,692.50(6)(7)
Secondary Offering:				
Common Stock, no par value, with attached Common Share Purchase Rights(1)	3,407,638	\$1.75	\$5,963,367(8)	\$691.16(7)
Total	-	-	\$80,963,367	\$9,383.66(7)

- The common share purchase rights are attached to and traded with the shares of common stock being registered. The value attributable to the common share purchase rights, if any, is reflected in the value attributable to the common stock.
- Each stock purchase unit consists of (a) a stock purchase contract under which the holder, upon settlement, will purchase or sell an indeterminate number of shares of common stock and (b) common stock, debt securities, other stock purchase contracts or debt obligations of third parties securing the holder's obligation to purchase or sell the securities subject to the stock purchase contract. No separate consideration will be received for the stock purchase contract or the related pledged securities.
- Includes an indeterminate aggregate principal amount and number of securities of each identified class of securities up to a proposed aggregate offering price of \$75,000,000, which may be offered by the registrant from time to time in unspecified numbers and at indeterminate prices, and as may be issued upon conversion, redemption, repurchase, exchange or exercise of any securities registered hereunder, including any applicable anti-dilution provisions. In addition, up to 3,407,638 shares of the registrant's common stock may be sold pursuant to this registration statement by the selling shareholders described herein. This registration statement also covers delayed delivery contracts that may be issued by the registrant under which the party purchasing such contracts may be required to purchase debt securities, common stock or preferred stock. Such contracts may be issued together with the specific securities to which they relate. Securities registered hereunder to be sold by the registrant may be sold either separately or as units comprised of more than one type of security registered hereunder. Pursuant to Rule 416 under the Securities Act of 1933, as amended, the securities being registered hereunder include such indeterminate number of shares of common stock as may be issuable with respect to the securities being registered hereunder as a result of stock splits, stock dividends or similar transactions.
- Pursuant to General Instruction I.D of Form S-3, the table lists each of the classes of securities being registered and the aggregate proceeds to be raised but, other than with respect to the secondary offering, does not specify by each class information as to the amount to be registered, proposed maximum offering price per share, and proposed maximum aggregate offering price.
- If applicable, includes consideration to be received by the registrant for registered securities that are issuable upon exercise, conversion or exchange of other registered securities or that are issued in units.
- Calculated pursuant to Rule 457(o) under the Securities Act of 1933. Pursuant to General Instruction I.B.6. of Form S-3, if the aggregate market value of the Registrant's outstanding voting and non-voting common equity held by non-affiliates of the Registrant does not equal or exceed \$75 million subsequent to the effective date of this registration statement, then the aggregate offering price of all types of securities that the Registrant may issue pursuant to this registration statement in any 12-month period may not exceed one-third of the aggregate market value of the voting and non-voting common equity held by non-affiliates of the Registrant.
- The Registrant previously filed a Registration Statement on Form S-3 (File No. 333-193411), which was declared effective on February 3, 2014, and paid a filing fee of \$10,418.84. The Registrant did not sell an aggregate of \$61,772,831 of securities pursuant to the Registration Statement. Pursuant to Rule 457(p) under the Securities Act, the Registrant hereby applies the remaining \$7,955 of the previously paid filing fee against amounts due herewith.
- Pursuant to Rule 457(c), the proposed maximum aggregate offering price and registration fee for the secondary offering are computed based on the average of the high and low prices reported for the registrant's common stock traded on the NASDAQ Capital Market on February 22, 2017.

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 Securities and Exchange Commission, acting pursuant to said Section 8(a), may determine.

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities nor a solicitation of an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

(Subject to completion, dated February 28, 2017)

Prospectus



Orion Energy Systems, Inc.

**Debt Securities
Common Stock
Preferred Stock
Warrants
Subscription Rights
Stock Purchase Contracts
Stock Purchase Units**

We may offer and sell from time to time up to \$75.0 million of any combination of the securities described in this prospectus, in one or more classes or series and in amounts, at prices and on terms that we will determine at the times of the offerings. In addition, selling shareholders may from time to time sell up to 3,407,638 shares of our common stock. We will not receive any proceeds from the sale, if any, of common stock by selling shareholders.

This prospectus describes the general manner in which our securities may be offered using this prospectus. We will provide specific terms of the securities, including the offering prices, in one or more supplements to this prospectus. The supplements may also add, update or change information contained in this prospectus. You should read this prospectus and the prospectus supplement relating to the specific issue of securities carefully before you invest.

We and/or the selling shareholders may offer the securities independently or together in any combination for sale directly to purchasers or through underwriters, dealers or agents to be designated at a future date. The supplements to this prospectus will provide the specific terms of the plan of distribution.

Our common stock is listed on the NASDAQ Capital Market under the symbol "OESX." The last reported sale price of the common stock on February 27, 2017 was \$1.91 per share. As of February 21, 2017, the aggregate market value of our outstanding voting and nonvoting common stock held by non-affiliates was \$48,363,711, calculated based on 21,494,983 shares of outstanding common stock held by non-affiliates and on a price per share of \$2.25, the closing price of our common stock on January 19, 2017. We have not offered any securities pursuant to General Instruction I.B.6. of Form S-3 during the 12 calendar month period ending on, and including the date of this prospectus. So long as the aggregate market value of our outstanding voting and non-voting common equity held by non-affiliates remains below \$75.0 million, we will not sell our securities in primary offerings under this prospectus where the aggregate market value of such securities sold in such offerings exceeds one-third of the aggregate market value of the voting and non-voting common equity held by our non-affiliates in any 12-month period.

Investment in our securities involves risks. Please read carefully the section entitled "Risk Factors" in our most recent Annual Report on Form 10-K and in any applicable prospectus supplement and/or other offering material for a discussion of certain factors which should be considered in an investment of the securities which may be offered hereby.

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 February 28, 2017.

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ABOUT THIS PROSPECTUS

Unless the context otherwise requires, in this prospectus, “Orion,” “company,” “we,” “us,” “our” and “ours” refer to Orion Energy Systems, Inc.

This prospectus is part of a registration statement that we filed with the Securities and Exchange Commission, or SEC, using a “shelf” registration process. Under this shelf registration process, we may, from time to time, sell the securities or combinations of the securities described in this prospectus in one or more offerings up to an aggregate dollar amount of \$75,000,000. In addition, selling shareholders may from time to time sell up to 3,407,638 shares of our common stock in one or more secondary offerings. This prospectus provides you with a general description of the securities that we and our selling shareholders may offer. Each time we or our selling shareholders offer securities, we will provide a prospectus supplement and/or other offering material that will contain specific information about the terms of that offering. The prospectus supplement and/or other offering material may also add, update or change information contained in this prospectus. You should read this prospectus, any prospectus supplement and any other offering material together with additional information described under the heading “Where You Can Find More Information.”

You should rely only on the information contained or incorporated by reference in this prospectus and in any prospectus supplement or other offering material. Neither we nor the selling shareholders have 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. Neither we nor the selling shareholders are making offers to sell or solicitations to buy the 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 not assume that the information in this prospectus, any prospectus supplement or any other offering material, or the information we previously filed with the SEC that we incorporate by reference in this prospectus or any prospectus supplement, is accurate as of any date other than its respective date. Our business, financial condition, results of operations and prospects may have changed since those dates.

ORION ENERGY SYSTEMS, INC.

We are a leading designer and manufacturer of high-performance, energy-efficient lighting platforms. We research, develop, design, manufacture, market, sell and implement energy management systems consisting primarily of high-performance, energy-efficient commercial and industrial interior and exterior lighting systems and related services. Our products are targeted for applications in three primary market segments: commercial office and retail; area lighting and industrial applications, although we do sell and install products into other markets. We operate in three business segments, which we refer to as our Orion U.S. Markets Division, Orion Engineered Systems Division and Orion Distribution Services Division.

We are a Wisconsin corporation and our corporate headquarters are located at 2210 Woodland Drive, Manitowoc, Wisconsin 54220. Our telephone number is (920) 892-9340. Our Internet website address is www.oesx.com. We do not incorporate the information on our website into this prospectus, and you should not consider it part of this prospectus.

USE OF PROCEEDS

Unless otherwise described in the applicable prospectus supplement, we intend to use the net proceeds from the sale of the securities for general corporate purposes, including potentially expanding existing businesses, acquiring businesses and investing in other business opportunities. Pending such use, we may temporarily invest the net proceeds in short-term investments.

We will not receive any proceeds from the sale of shares of common stock by selling shareholders.

SECURITIES TO BE OFFERED

We may offer debt securities, shares of common stock, shares of preferred stock, warrants, subscription rights, stock purchase contracts and stock purchase units from time to time in one or more primary offerings, and selling shareholders may offer common stock from time to time in one or more secondary offerings. We will set forth in the applicable prospectus supplement a description of the securities that may be offered under this prospectus. The terms of the offering of securities, the initial offering price and the net proceeds to us or the selling shareholders will be contained in the prospectus supplement and/or other offering material relating to such offering.

RATIO OF EARNINGS TO FIXED CHARGES

	Nine Months Ended December 31, 2016	Years Ended March 31,				
		2016	2015	2014	2013	2012
Ratios of earnings to fixed charges	(1)	(1)	(1)	(1)	(1)	1.9x

- (1) Total earnings were insufficient to cover fixed charges by \$5.2 million, \$20.1 million, \$32.0 million, \$8.2 million and \$6.3 million, for the nine months ended December 31, 2016 and the years ended March 31, 2016, 2015, 2014 and 2013, respectively. Total net loss includes net losses incurred of \$5.0 million, \$20.1 million, \$32.1 million, \$6.2 million and \$10.4 million for the nine months ended December 31, 2016 and the years ended March 31, 2016, 2015, 2014 and 2013, respectively.

For purposes of computing the ratios of earnings to fixed charges, earnings consist of earnings from continuing operations before income taxes, fixed charges and amortization of capitalized interest, less capitalized interest. Fixed charges consist of interest expensed and capitalized, amortization of debt issuance costs and the interest component of rent expense.

We did not have any preferred stock outstanding and we did not pay or accrue any preferred stock dividends during the periods presented above.

DESCRIPTION OF DEBT SECURITIES

The following description of the terms of the debt securities sets forth general terms that may apply to the debt securities and provisions of the indenture that will govern the debt securities, and is not complete. We will describe the particular terms of any debt securities in the prospectus supplement relating to those debt securities.

The debt securities will be our senior debt securities and will be issued under an indenture between us and a trustee, a form of which is incorporated by reference into this prospectus and attached as an exhibit to the registration statement of which this prospectus is a part. See “Where You Can Find More Information.” We refer to this indenture as the “indenture.”

The following is a summary of some provisions of the indenture. The following summary does not purport to be complete, and is subject to, and qualified in its entirety by reference to, all of the provisions of the indenture, including the definitions of specified terms used in the indenture, and the debt securities. We encourage you to read the indenture and the debt securities because they, and not this description, set forth your rights as a holder of our debt securities. We will describe the particular terms of any debt securities in the prospectus supplement relating to those debt securities. Parenthetical section references under this heading are references to sections in the indenture unless we indicate otherwise.

General Terms

The indenture does not limit the amount of debt securities that we may issue. (Section 301). The indenture provides that debt securities may be issued up to the principal amount authorized by us from time to time. The debt securities will be unsecured and will have the same rank as all of our other unsecured debt. None of our subsidiaries, if any, will have any obligations with respect to the debt securities. Therefore, our rights and the rights of our creditors, including holders of senior debt securities and subordinated debt securities, to participate in the assets of any subsidiary will be subject to the prior claims of the creditors of any such subsidiaries.

We may issue the debt securities in one or more separate series of senior debt securities. (Section 301). The prospectus supplement relating to the particular series of debt securities being offered will specify the particular amounts, prices and terms of those debt securities. These terms may include:

- the title of the debt securities and the series in which the debt securities will be included;
- the authorized denominations and aggregate principal amount of the debt securities;
- the date or dates on which the principal and premium, if any, are payable;
- the rate or rates per annum at which the debt securities will bear interest, if there is any interest, or the method or methods of calculating interest and the date from which interest will accrue;
- the place or places where the principal of and any premium and interest on the debt securities will be payable;
- the dates on which the interest will be payable and the corresponding record dates;
- the period or periods within which, the price or prices at which, and the terms and conditions on which, the debt securities may be redeemed, in whole or in part, at our option;
- whether the debt securities of the series will be issued in whole or in part;
- whether the debt securities of the series will be issued in the form of a global security and, if so, the name of the applicable depository and global exchange agent;
- any obligation to redeem, repay or purchase debt securities pursuant to any sinking fund or analogous provisions or at the option of a holder;

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- the portion of the principal amount of the debt securities payable upon declaration of the acceleration of the maturity of the debt securities;
- the person to whom any interest on any debt security will be payable if other than the person in whose name the debt security is registered on the applicable record date;
- any events of default, covenants or warranties applicable to the debt securities;
- the currency, currencies or composite currency of denomination of the debt securities;
- the currency, currencies or composite currencies in which payments on the debt securities will be payable and whether the holder may elect payment to be made in a different currency;
- whether and under what conditions we will pay additional amounts to holders of the debt securities;
- the terms and conditions of any conversion or exchange provisions in respect of the debt securities;
- the terms pursuant to which our obligation under the indenture may be terminated through the deposit of money or government obligations;
- whether the debt securities of the series will be subordinated in right of payment to senior indebtedness; and
- any other specific terms of the debt securities not inconsistent with the indenture. (Section 301).

Unless otherwise specified in the applicable prospectus supplement, the debt securities will not be listed on any securities exchange.

Unless the applicable prospectus supplement specifies otherwise, we will issue the debt securities in fully registered form without coupons. If we issue debt securities of any series in bearer form, the applicable prospectus supplement will describe the special restrictions and considerations, including special offering restrictions and special federal income tax considerations, applicable to those debt securities and to payment on and transfer and exchange of those debt securities.

U.S. Federal Income Tax Considerations

We may issue the debt securities as original issue discount securities, bearing no interest or bearing interest at a rate, which, at the time of issuance, is below market rates, to be sold at a substantial discount below their principal amount. We will describe some special U.S. federal income tax and other considerations applicable to any debt securities that are issued as original issue discount securities in the applicable prospectus supplement. We encourage you to consult with your own tax and financial advisors on these important matters.

Payment, Registration, Transfer and Exchange

Subject to any applicable laws or regulations, we will make payments on the debt securities at a designated office or agency, unless the applicable prospectus supplement otherwise sets forth. At our option, however, we may also make interest payments on the debt securities in registered form:

- by checks mailed to the persons entitled to interest payments at their registered addresses; or
- by wire transfer to an account maintained by the person entitled to interest payments as specified in the security register.

Unless the applicable prospectus supplement otherwise indicates, we will pay any installment of interest on debt securities in registered form to the person in whose name the debt security is registered at the close of business on the regular record date for that installment of interest. (Section 307). If a holder wishes to receive payment by wire transfer, the holder should provide the paying agent with written wire transfer instructions at least 15 days prior to the payment date.

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Unless the applicable prospectus supplement otherwise sets forth, debt securities issued in registered form will be transferable or exchangeable at the agency we may designate from time to time. Debt securities may be transferred or exchanged without service charge, other than any tax or other governmental charge imposed in connection with the transfer or exchange. (Section 305).

Book-Entry Procedures

The applicable prospectus supplement for each series of debt securities will state whether those debt securities will be subject to the following provisions.

Unless debt securities in physical form are issued, we will issue the debt securities in whole or in part in the form of one or more global certificates, which we refer to as global securities, in denominations of \$1,000 or any integral multiple of \$1,000. We will deposit the global securities with or on behalf of The Depository Trust Company, which we refer to as DTC, and registered in the name of Cede & Co., as nominee of DTC. Beneficial interests in the global securities may be held through the Euroclear System (“Euroclear”) and Clearstream Banking, S.A. (“Clearstream”) (as indirect participants in DTC).

We have provided the following descriptions of the operations and procedures of DTC, Euroclear and Clearstream solely as a matter of convenience. These operations and procedures are solely within the control of DTC, Euroclear and Clearstream and are subject to change by them from time to time. Neither we, any underwriter nor the trustee take any responsibility for these operations or procedures, and you are urged to contact DTC, Euroclear or Clearstream directly to discuss these matters.

DTC has advised us that:

- DTC is a limited-purpose trust company organized under the New York Banking Law, a “banking organization” within the meaning of the New York Banking Law, a member of the Federal Reserve System, a “clearing corporation” within the meaning of the New York Uniform Commercial Code and a “clearing agency” registered under Section 17A of the Securities Exchange Act of 1934;
- DTC holds securities that its direct participants deposit with DTC and facilitates the settlement among direct participants of securities transactions, such as transfers and pledges, in deposited securities through electronic computerized book-entry changes in direct participants’ accounts, thereby eliminating the need for physical movement of securities certificates;
- direct participants include securities brokers and dealers, trust companies, clearing corporations and other organizations;
- DTC is a wholly-owned subsidiary of The Depository Trust & Clearing Corporation, which is owned by the users of its regulated subsidiaries;
- access to the DTC system is also available to indirect participants such as securities brokers and dealers, banks and trust companies that clear through or maintain a custodial relationship with a direct participant, either directly or indirectly; and
- the rules applicable to DTC and its direct and indirect participants are on file with the SEC.

We expect that under procedures established by DTC:

- upon deposit of the global securities with DTC or its custodian, DTC will credit on its internal system the accounts of direct participants designated by the underwriters with portions of the principal amounts of the global securities; and
- ownership of the debt securities will be shown on, and the transfer of ownership of the debt securities will be effected only through, records maintained by DTC or its nominee, with

respect to interests of direct participants, and the records of direct and indirect participants, with respect to interests of persons other than participants.

Investors in the global securities who are participants in DTC's system may hold their interests therein directly through DTC. Investors in the global notes who are not participants may hold their interests therein indirectly through organizations (including Euroclear and Clearstream) which are participants in such system. Euroclear and Clearstream may hold interests in the global securities on behalf of their participants through customers' securities accounts in their respective names on the books of their respective depositories, which are Euroclear Bank S.A./N.V., as operator of Euroclear, and Citibank, N.A., as depository of Clearstream. All interests in a securities, including those held through Euroclear or Clearstream, may be subject to the procedures and requirements of DTC. Those interests held through Euroclear or Clearstream may also be subject to the procedures and requirements of such systems.

The laws of some jurisdictions require that purchasers of securities take physical delivery of those securities in the form of a certificate. For that reason, it may not be possible to transfer interests in a global security to those persons. In addition, because DTC can act only on behalf of its participants, who in turn act on behalf of persons who hold interests through participants, the ability of a person having an interest in a global security to pledge or transfer that interest to persons or entities that do not participate in DTC's system, or otherwise to take actions in respect of that interest, may be affected by the lack of a physical definitive security in respect of that interest.

So long as DTC or its nominee is the registered owner of a global security, DTC or that nominee will be considered the sole owner or holder of the debt securities represented by that global security for all purposes under the indenture and under the debt securities. Except as described below, owners of beneficial interests in a global security will not be entitled to have debt securities represented by that global security registered in their names, will not receive or be entitled to receive the debt securities in the form of a physical certificate and will not be considered the owners or holders of the debt securities under the indenture or under the debt securities, and may not be entitled to give the trustee directions, instructions or approvals. For that reason, each holder owning a beneficial interest in a global security must rely on DTC's procedures and, if that holder is not a direct or indirect participant in DTC, on the procedures of the DTC participant through which that holder owns its interest, to exercise any rights of a holder of debt securities under the indenture or the global security.

Neither we nor the trustee will have any responsibility or liability for any aspect of DTC's records relating to the debt securities or relating to payments made by DTC on account of the debt securities, or any responsibility to maintain, supervise or review any of DTC's records relating to the debt securities.

We will make payments on the debt securities represented by the global securities to DTC or its nominee, as the registered owner of the debt securities. We expect that when DTC or its nominee receives any payment on the debt securities represented by a global security, DTC will credit participants' accounts with payments in amounts proportionate to their beneficial interests in the global security as shown in DTC's records. We also expect that payments by DTC's participants to owners of beneficial interests in the global security held through those participants will be governed by standing instructions and customary practice as is now the case with securities held for the accounts of customers registered in the names of nominees for such customers. DTC's participants will be responsible for those payments.

Payments on the debt securities represented by the global securities will be made in immediately available funds. Transfers between participants in DTC will be made in accordance with DTC's rules and will be settled in immediately available funds.

Transfers between participants in DTC will be effected in accordance with DTC's procedures, and will be settled in same-day funds, and transfers between participants in Euroclear and Clearstream will be effected in accordance with their respective rules and operating procedures.

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Cross-market transfers between the participants in DTC, on the one hand, and Euroclear or Clearstream participants, on the other hand, will be effected through DTC in accordance with DTC's rules on behalf of Euroclear or Clearstream, as the case may be, by its depository; however, such cross-market transactions will require delivery of instructions to Euroclear or Clearstream, as the case may be, by the counterparty in such system in accordance with the rules and procedures and within the established deadlines (European time) of such system. Euroclear or Clearstream, as the case may be, will, if the transaction meets its settlement requirements, deliver instructions to its respective depository to take action to effect final settlement on its behalf by delivering or receiving interests in the relevant global security in DTC, and making or receiving payment in accordance with normal procedures for same-day funds settlement applicable to DTC. Euroclear participants and Clearstream participants may not deliver instructions directly to the depositories for Euroclear or Clearstream.

DTC has advised us that it will take any action permitted to be taken by a holder of notes only at the direction of one or more participants to whose account DTC has credited the interests in the global securities and only in respect of such portion of the aggregate principal amount of the notes as to which such participant or participants has or have given such direction. However, if there is an event of default under the notes, DTC reserves the right to exchange the global securities for certificated notes, and to distribute such notes to its participants.

Although DTC, Euroclear and Clearstream have agreed to the foregoing procedures to facilitate transfers of interests in the global securities among participants in DTC, Euroclear and Clearstream, they are under no obligation to perform or to continue to perform such procedures, and may discontinue such procedures at any time. None of the trustee, us or any of their or our respective agents will have any responsibility for the performance by DTC, Euroclear or Clearstream or their respective direct or indirect participants of their respective obligations under the rules and procedures governing their operations.

Physical certificates will be issued to holders of a global security, or their nominees, if:

- DTC advises the trustee in writing that DTC is no longer willing, able or eligible to discharge properly its responsibilities as depository and we are unable to locate a qualified successor; or
- we decide in our sole discretion to terminate the book-entry system through DTC. (Section 305).

In such event, the trustee will notify all holders of debt securities through DTC participants of the availability of such physical debt securities. Upon surrender by DTC of a definitive global note representing the debt securities and receipt of instructions for reregistration, the trustee will reissue the debt securities in physical form to holders or their nominees. (Section 305).

Debt securities in physical form will be freely transferable and exchangeable at the office of the trustee upon compliance with the requirements set forth in the indenture.

No service charge will be imposed for any registration of transfer or exchange, but payment of a sum sufficient to cover any tax or other governmental charge may be required. (Section 305).

Same Day Settlement and Payment

We will make payments in respect of the notes represented by the global securities (including principal, premium, if any, and interest) by wire transfer of immediately available funds to the accounts specified by the global securities holder. We will make all payments of principal, interest and premium, if any, with respect to certificated notes by wire transfer of immediately available funds to the accounts specified by the holders of the certificated notes or, if no such account is specified, by mailing a check to each such holder's registered address. The notes represented by the global securities are expected to be eligible to trade in DTC's Same-Day Funds Settlement System, and any permitted secondary market trading activity in such notes will, therefore, be required by DTC to be settled in immediately available funds. We expect that secondary trading in any certificated notes will also be settled in immediately available funds.

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Because of time zone differences, the securities account of a Euroclear or Clearstream participant purchasing an interest in a global security from a participant in DTC will be credited, and any such crediting will be reported to the relevant Euroclear or Clearstream participant, during the securities settlement processing day (which must be a business day for Euroclear and Clearstream) immediately following the settlement date of DTC. DTC has advised us that cash received in Euroclear or Clearstream as a result of sales of interests in a global securities by or through a Euroclear or Clearstream participant to a participant in DTC will be received with value on the settlement date of DTC but will be available in the relevant Euroclear or Clearstream cash account only as of the business day for Euroclear or Clearstream following DTC's settlement date.

Consolidation, Merger or Sale by the Company

The indenture generally permits a consolidation or merger between us and another U.S. legal entity. It also permits the sale or transfer by us of all or substantially all of our property and assets to another legal entity. These transactions are permitted if:

- (A) we are the continuing or surviving legal entity, or (B) the resulting or acquiring legal entity, if other than us, assumes all of our responsibilities and liabilities under the indenture, including the payment of all amounts due on the debt securities and performance of the covenants in the indenture;
- immediately after the transaction, no event of default exists. (Section 801); and
- the trustee shall have received an officer's certificate and an opinion stating such consolidation, merger, conveyance, transfer or lease and, if applicable, the corresponding supplemental indenture, are in compliance with the base indenture.

Even though the indenture contains the provisions described above, we are not required by the indenture to comply with those provisions if we sell all of our property and assets to another U.S. legal entity if, immediately after the sale, that legal entity is one of our wholly-owned subsidiaries. (Section 801).

If we consolidate or merge with or into any other legal entity or sell all or substantially all of our assets according to the terms and conditions of the indenture, the resulting or acquiring legal entity will be substituted for us in the indenture with the same effect as if it had been an original party to the indenture. As a result, the successor legal entity may exercise our rights and powers under the indenture, in our name or in its own name and we will be released from all our liabilities and obligations under the indenture and under the debt securities. (Section 801).

Events of Default, Notice and Certain Rights on Default

Unless otherwise stated in the applicable prospectus supplement, an "event of default," when used with respect to any series of debt securities, means any of the following:

- failure to pay interest on any debt security of that series for 30 days after the payment is due;
- failure to pay the principal of or any premium on any debt security of that series when due;
- failure to deposit any sinking fund payment on debt securities of that series when due;
- failure to perform any other covenant in the indenture that applies to debt securities of that series for 90 days after we have received written notice of the failure to perform in the manner specified in the indenture;
- an event of default under any debt by the company or any significant subsidiary of the company (including a default with respect to any series of debt securities) that results in debt of an outstanding principal amount greater than \$75,000,000 becoming or being declared due and payable;

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- certain events in bankruptcy, insolvency or reorganization; or
- any other event of default that may be specified for the debt securities of that series when that series is created. (Section 502).

If an event of default for any series of debt securities occurs and continues, the trustee or the holders of at least 25% in aggregate principal amount of the outstanding debt securities of the series may declare the entire principal of all the debt securities of that series to be due and payable immediately. If a declaration occurs, the holders of a majority of the aggregate principal amount of the outstanding debt securities of that series can, subject to certain conditions, rescind the declaration. (Section 502).

The prospectus supplement relating to each series of debt securities which are original issue discount securities will describe the particular provisions that relate to the acceleration of maturity of a portion of the principal amount of that series when an event of default occurs and continues.

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 the indenture.

The indenture requires us to furnish an officer's certificate to the trustee each year as to the knowledge of our principal executive, financial or accounting officer of our compliance with all conditions and covenants under the indenture. (Section 1008). The trustee will transmit by mail to the holders of debt securities of a series notice of any default.

Other than its duties in the case of a default, the trustee will not be obligated to exercise any of its rights or powers under an indenture at the request, order or direction of any holders, unless the holders offer the trustee indemnification satisfactory to the trustee. (Section 603). If indemnification satisfactory to the trustee is provided, then, subject to certain other rights of the trustee, the holders of a majority in principal amount of the outstanding debt securities of any series may, with respect to the debt securities of that series, direct the time, method and place of:

- conducting any proceeding for any remedy available to the trustee; or
- exercising any trust or power conferred upon the trustee. (Section 512).

The holder of a debt security of any series will have the right to begin any proceeding with respect to the indenture or for any remedy only if:

- the holder has previously given the trustee written notice of a continuing event of default with respect to that series;
- the holders of at least 25% in aggregate principal amount of the outstanding debt securities of that series have made a written request of, and offered reasonable indemnification to, the trustee to begin the proceeding;
- the trustee has not started the proceeding within 60 days after receiving the request; and
- the trustee has not received directions inconsistent with the request from the holders of a majority in aggregate principal amount of the outstanding debt securities of that series during those 60 days. (Section 507).

The holders of not less than a majority in aggregate principal amount of any series of debt securities, by notice to the trustee for that series, may waive, on behalf of the holders of all debt securities of that series, any past default or event of default with respect to that series and its consequences. (Section 513). A default or event of default in the payment of the principal of, or premium or interest on, any debt security and certain other defaults may not, however, be waived. (Sections 508 and 513).

Modification of the Indenture

We, as well as the trustee for a series of debt securities, may enter into one or more supplemental indentures, without the consent of, or notice to, the holders of any of the debt securities, in order to:

- evidence the succession of another corporation to us and the assumption of our covenants by a successor;
- add to our covenants or surrender any of our rights or powers;
- add additional events of default for any series;
- change or eliminate any restrictions on the payment of principal of (or premium, if any, on) debt securities, provided such action will not adversely affect the interest of holders of any series of debt securities in any material respect;
- permit or facilitate the issuance of debt securities in uncertificated form, provided such action will not adversely affect the interests of holders of any series of debt securities in any material respect;
- secure the debt securities;
- establish the form or terms of debt securities not yet issued;
- evidence and provide for successor trustees;
- add, change or eliminate any provision affecting registration as to principal of debt securities;
- change or eliminate provisions or add any other provisions that are required or desirable in accordance with any amendments to the Trust Indenture Act of 1939, which we refer to in this prospectus as the Trust Indenture Act, on the condition that this action does not adversely affect the interests of any holder of debt securities of any series issued under the indenture in any material respect;
- comply with requirements of the SEC in order to maintain the qualification of the indenture under the Trust Indenture Act;
- provide for uncertificated debt securities in addition to or in place of certificated debt securities;
- make any change that would provide additional rights or benefits to holders of debt securities or any series, or that does not adversely affect the legal rights of such holders under the indenture;
- supplement any provisions of the indenture to facilitate defeasance and discharge of any series of debt securities, provided such action will not adversely affect the interest of the holders of debt securities of such series or any other series;
- conform text of the indenture or any debt securities to the description thereof in any prospectus supplement;
- cure any ambiguity or correct any mistake; or
- to make any other provision with respect to the indenture, provided that such actions will not adversely affect the interests of the holders, as determined in good faith by the board of directors of the company (Section 901).

In addition, with the consent of the holders of not less than a majority in aggregate principal amount of the outstanding debt securities of all series affected by the supplemental indenture, we and the trustee may execute supplemental indentures adding any provisions to or changing or eliminating any of the provisions of the indenture or any supplemental indenture or modifying the rights of the holders of debt securities of that series. No such supplemental indenture may, however, without the consent of the holder of each debt security that is affected:

- change the time for payment of principal or interest on any debt security;

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- reduce the principal of, or any installment of principal of, or interest on, any debt security;
- reduce the amount of premium, if any, payable upon the redemption of any debt security;
- change any obligation of the company to pay additional amounts;
- reduce the amount of principal payable upon acceleration of the maturity of an original issue discount debt security;
- impair the right to institute suit for the enforcement of any payment on or for any debt security;
- reduce the percentage in principal amount of the outstanding debt securities of any series the consent of whose holders is required for modification or amendment of the indenture or for waiver of compliance with certain provisions of the indenture or for waiver of certain defaults;
- modify the provisions relating to waiver of some defaults or any of the foregoing provisions;
- change the currency of payment;
- adversely affect the right to repayment of debt securities of any series at the option of the holders of those debt securities; or
- change the place of payment. (Section 902).

Any supplemental indenture will be filed with the SEC as an exhibit to:

- a post-effective amendment to the registration statement of which this prospectus is a part;
- an annual report on Form 10-K;
- a quarterly report on Form 10-Q; or
- a current report on Form 8-K.

Defeasance and Covenant Defeasance

When we use the term defeasance, we mean discharge from some or all of our obligations under the indenture. If we deposit with the trustee sufficient cash or government obligations to pay the principal, interest, any premium and any mandatory sinking fund or analogous payments due to the stated maturity or a redemption date of the debt securities of a particular series, then at our option:

- we will be discharged from our obligations for the debt securities of that series, the holders of the debt securities of the affected series will no longer be entitled to the benefits of the indenture, except for registration of transfer and exchange of debt securities and replacement of lost, stolen or mutilated debt securities, and those holders may look only to the deposited funds or obligations for payment, which is referred to as “defeasance”; or
- we will no longer be under any obligation to comply with certain covenants under the indenture as it relates to that series, and some events of default will no longer apply to us, which is referred to as “covenant defeasance.” (Sections 403 and 1501).

Unless the applicable prospectus supplement specifies otherwise and except as described below, the conditions to both defeasance and covenant defeasance are as follows:

- it must not result in a breach or violation of, or constitute a default or event of default under, the indenture, or result in a breach or violation of, or constitute a default under, any other of our material agreements or instruments;
- certain bankruptcy-related defaults or events of default with respect to us must not have occurred and be occurring during the period commencing on the date of the deposit of the trust funds to defease the debt securities and ending on the 91st day after that date;

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- we must deliver to the trustee an officer's certificate and an opinion of counsel addressing compliance with the conditions of the defeasance or covenant defeasance; and
- we must comply with any additional conditions to the defeasance or covenant defeasance that the indenture may impose on us. (Sections 403 and 1501).

In the event that government obligations deposited with the trustee for the defeasance of such debt securities decrease in value or default subsequent to their being deposited, we will have no further obligation, and the holders of the debt securities will have no additional recourse against us, for any decrease in value or default. If indicated in the prospectus supplement, in addition to obligations of the United States or an agency or instrumentality of the United States, government obligations may include obligations of the government or an agency or instrumentality of the government issuing the currency in which debt securities of such series are payable.

We may exercise our defeasance option for the debt securities even if we have already exercised our covenant defeasance option. If we exercise our defeasance option, payment of the debt securities may not be accelerated because of default or an event of default. If we exercise our covenant defeasance option, payment of the debt securities may not be accelerated because of default or an event of default with respect to the covenants to which the covenant defeasance is applicable. If, however, acceleration occurs, the realizable value at the acceleration date of the money and government obligations in the defeasance trust could be less than the principal and interest then due on the debt securities, because the required deposit in the defeasance trust is based on scheduled cash flow rather than market value, which will vary depending on interest rates and other factors.

Conversion and Exchange Rights

The debt securities of any series may be convertible into or exchangeable for other securities of our company or another issuer or property or cash on the terms and subject to the conditions set forth in the applicable prospectus supplement. (Section 301).

Governing Law

The indenture and the debt securities will be governed by, and construed under, the laws of the State of New York without regard to conflicts of laws principles thereof.

Regarding the Trustee

We may from time to time maintain lines of credit, and have other customary banking relationships, with the trustee under the indenture.

The indenture and provisions of the Trust Indenture Act that are incorporated by reference therein contain limitations on the rights of the trustee, should it become one of our creditors, to obtain payment of claims in certain cases or to realize on certain property received by it in respect of any such claim as security or otherwise. The trustee is permitted to engage in other transactions with us or any of our affiliates; provided, however, that if it acquires any conflicting interest (as defined under the Trust Indenture Act), it must eliminate such conflict or resign.

DESCRIPTION OF CAPITAL STOCK

Our authorized capital stock consists of 230,000,000 shares, consisting of 200,000,000 shares of common stock, no par value per share, and 30,000,000 shares of preferred stock, par value \$0.01 per share. As of February 21, 2017, 28,310,672 shares of our common stock were outstanding. As of the date of this prospectus, no shares of our preferred stock were outstanding.

The description below summarizes the material terms of our common stock, preferred stock, and options to purchase our common stock and provisions of our amended and restated articles of incorporation and amended and restated bylaws. This description is only a summary. For more detailed information, you should refer to our amended and restated articles of incorporation and bylaws filed as exhibits to the registration statement, of which this prospectus is a part and incorporated by reference into this prospectus. See “Where You Can Find More Information.”

Common Stock

Holders of our common stock are entitled to one vote for each share held on all matters submitted to a vote of shareholders and do not have cumulative voting rights. Holders of common stock are entitled to receive proportionately any dividends as may be declared by our board of directors, subject to any preferential dividend rights of outstanding preferred stock. Upon our liquidation, dissolution or winding up, the holders of common stock are entitled to receive proportionately our net assets available after the payment of all debts and other liabilities and subject to the prior rights of any outstanding preferred stock. Holders of common stock have no preemptive, subscription, redemption or conversion rights. Our outstanding shares of common stock are fully paid and nonassessable. The rights, preferences and privileges of holders of common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of preferred stock that we may designate and issue in the future.

We have entered into a rights agreement pursuant to which each outstanding share of our common stock has attached a right to purchase one share of our common stock. A right will also attach to each share of common stock that we subsequently issue prior to the expiration of the rights agreement. Under circumstances described below, the rights will entitle the holder of the rights to purchase additional shares of common stock. In this prospectus and any accompanying prospectus supplement, unless the context requires otherwise, all references to our common stock include the accompanying rights.

Currently, the rights are not exercisable and trade with the common stock. If the rights become exercisable, each right, unless held by a person or group that beneficially owns more than 20% of our outstanding common stock, will initially entitle the holder to purchase one share of our common stock at a purchase price of \$30 per share, subject to adjustment. The rights will become exercisable only if a person or group has acquired, or announced an intention to acquire, 20% or more of our outstanding common stock. Under some circumstances, including the existence of a 20% acquiring party, each holder of a right, other than the acquiring party, will be entitled to purchase at the right’s then-current exercise price, shares of our common stock having a market value of two times the exercise price. If another corporation acquires us after a party acquires 20% or more of our common stock, each holder of a right will be entitled to receive the acquiring corporation’s common shares having a market value of two times the exercise price. The rights may be redeemed at a price of \$0.001 per right until a party acquires 20% or more of our common stock and, after that time, may be exchanged for one share of our common stock per right until a party acquires 50% or more of our common stock. The rights expire on January 7, 2019, subject to extension. Under the rights agreement, our board of directors may reduce the thresholds applicable to the rights from 20% to not less than 10%. The rights do not have voting or dividend rights and, until they become exercisable, have no dilutive effect on our earnings.

The rights have certain anti-takeover effects, in that they could have the effect of delaying, deferring or preventing a change of control of our company by causing substantial dilution to a person or group that attempts to acquire a significant interest in our company on terms not approved by our board of directors.

Preferred Stock

Our board of directors is authorized to issue from time to time up to 30 million shares of preferred stock in one or more series without shareholder approval. Our board of directors has the discretion to determine the rights, preferences, privileges and restrictions, including voting rights, dividend rights, conversion rights, redemption privileges and liquidation preferences, of each series of preferred stock. It is not possible to state the actual effect of the issuance of any shares of preferred stock on the rights of holders of common stock until our board of directors determines the specific rights associated with that preferred stock. The effects of issuing preferred stock could include one or more of the following:

- decreasing the amount of earnings and assets available for distribution to holders of common stock;
- restricting dividends on the common stock;
- diluting the voting power of the common stock;
- impairing the liquidation rights of the common stock; or
- delaying, deferring or preventing changes in our control or management.

As of the date of this prospectus, there were no shares of preferred stock outstanding.

Stock Options and Restricted Stock

As of February 21, 2017, we had outstanding options to purchase a total of 1,561,953 shares of common stock at a weighted average exercise price of \$3.33 per share. Of this total, options to purchase 1,442,153 shares were vested and 119,800 remain unvested.

As of February 21, 2017, we had outstanding 1,718,843 shares of restricted common stock subject to time vesting conditions.

As of February 21, 2017, an additional 1,306,221 shares of common stock were available for future award grants under the Orion Energy Systems Inc. 2016 Omnibus Incentive Plan.

Wisconsin Anti-Takeover Law and Certain Articles of Incorporation and Bylaw Provisions

Wisconsin law and our amended and restated articles of incorporation and amended and restated bylaws contain provisions that could delay or prevent a change of control of our company or changes in our board of directors that our shareholders might consider favorable. The following is a summary of these provisions.

Amended and Restated Articles of Incorporation and Amended and Restated Bylaws

Classified board of directors; removal of directors for cause. Our amended and restated articles of incorporation and amended and restated bylaws provide that our board of directors is divided into three classes, with the term of office of each class expiring at successive annual meetings of shareholders. At each annual meeting of shareholders, each director is elected for a term ending on the date of the third annual shareholders' meeting following the annual shareholders' meeting at which such director was elected and until his or her successor shall be elected and shall qualify, subject to prior death, resignation or removal from office.

Our amended and restated articles of incorporation also provide that the affirmative vote of shareholders possessing at least 75% of the voting power of the then outstanding shares of our capital stock is required to amend, alter, change or repeal, or to adopt any provision inconsistent with, the relevant sections of the

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bylaws establishing the classified board. The board of directors (or its remaining members, even if less than a quorum) is also empowered to fill vacancies on the board of directors occurring for any reason for the remainder of the term of the class of directors in which the vacancy occurred, unless the vacancy was caused by the action of shareholders (in which event such vacancy will be filled by the shareholders and may not be filled by the directors).

Members of the board of directors may be removed only for cause at a meeting of the shareholders called for the purpose of removing the director, and the meeting notice must state that the purpose, or one of the purposes, of the meeting is removal of the director and must state the alleged cause upon which the director's removal would be based.

These provisions are likely to increase the time required for shareholders to change the composition of our board of directors. For example, in general, at least two annual meetings will be necessary for shareholders to effect a change in a majority of the members of our board of directors.

Advance notice provisions for shareholder proposals and shareholder nominations of directors. Our amended and restated bylaws provide that, for nominations to the board of directors or for other business to be properly brought by a shareholder before a meeting of shareholders, the shareholder must first have given timely notice of the proposal in writing to our secretary. For an annual meeting, a shareholder's notice generally must be delivered on or before December 31 of the year immediately preceding the annual meeting, unless the date of the annual meeting is on or after May 1 in any year, in which case notice must be received not later than the close of business on the day which is determined by adding to December 31 of the year immediately preceding such annual meeting the number of days starting with May 1 and ending on the date of the annual meeting in such year. Detailed requirements as to the form of the notice and information required in the notice are specified in the amended and restated bylaws. If it is determined that business was not properly brought before a meeting in accordance with our amended and restated bylaws, such business will not be conducted at the meeting.

Wisconsin Business Corporation Law

Sections 180.1140 to 180.1144 of the Wisconsin Business Corporation Law, or the WBCL, restrict a broad range of business combinations between a Wisconsin corporation and an "interested stockholder" for a period of three years unless specified conditions are met. The WBCL defines a "business combination" as including certain mergers or share exchanges, sales of assets, issuances of stock or rights to purchase stock and other related party transactions. An "interested stockholder" is a person who beneficially owns, directly or indirectly, 10% of the outstanding voting stock of a corporation or who is an affiliate or associate of the corporation and beneficially owned 10% of the voting stock within the last three years. During the initial three-year period after a person becomes an interested stockholder in a Wisconsin corporation, with some exceptions, the WBCL prohibits a business combination with the interested stockholder unless the corporation's board of directors approved the business combination or the acquisition of the stock by the interested stockholder prior to the acquisition date. Following this three-year period, the WBCL also prohibits a business combination with an interested stockholder unless:

- the board of directors approved the acquisition of the stock prior to the acquisition date;
- the business combination is approved by a majority of the outstanding voting stock not owned by the interested stockholder;
- the consideration to be received by shareholders meets certain requirements of the statute with respect to form and amount; or
- the business combination is of a type specifically excluded from the coverage of the statute.

Sections 180.1130 to 180.1133 of the WBCL govern certain mergers or share exchanges between public Wisconsin corporations and significant shareholders, and sales of all or substantially all of the assets of

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public Wisconsin corporations to significant shareholders. These transactions must be approved by 80% of all shareholders and two-thirds of shareholders other than the significant shareholder, unless the shareholders receive a statutory “fair price.” Section 180.1130 of the WBCL generally defines a “significant shareholder” as the beneficial owner of 10% or more of the voting power of the outstanding voting shares, or an affiliate of the corporation who beneficially owned 10% or more of the voting power of the then outstanding shares within the last two years.

Section 180.1150 of the WBCL provides that in particular circumstances the voting power of shares of a public Wisconsin corporation held by any person in excess of 20% of the voting power is limited to 10% of the voting power these excess shares would otherwise have. Full voting power may be restored if a majority of the voting power of shares represented at a meeting, including those held by the party seeking restoration, are voted in favor of the restoration. This voting restriction does not apply to shares acquired directly from the corporation.

Section 180.1134 of the WBCL requires shareholder approval for some transactions in the context of a tender offer or similar action for more than 5% of any class of a Wisconsin corporation’s stock. Shareholder approval is required for the acquisition of more than 5% of the corporation’s stock at a price above market value from any person who holds more than 3% of the voting shares and has held the shares for less than two years, unless the corporation makes an equal offer to acquire all shares. Shareholder approval is also required for the sale or option of assets that amount to at least 10% of the market value of the corporation, but this requirement does not apply if the corporation has at least three independent directors and a majority of the independent directors vote not to have this provision apply to the corporation.

Limitations of Directors’ Liability and Indemnification

Our amended and restated bylaws provide that, to the fullest extent permitted or required by Wisconsin law, we will indemnify all of our directors and officers, any trustee of any of our employee benefit plans, and person who is serving at our request as a director, officer, employee or agent of another entity, against certain liabilities and losses incurred in connection with these positions or services. We will indemnify these parties to the extent the parties are successful in the defense of a proceeding and in proceedings in which the party is not successful in defense of the proceeding unless, in the latter case only, it is determined that the party breached or failed to perform his or her duties to us and this breach or failure constituted:

- a willful failure to deal fairly with us or our shareholders in connection with a matter in which the director or officer has a material conflict of interest;
- a violation of criminal law, unless the director or officer had reasonable cause to believe his or her conduct was unlawful;
- a transaction from which the director or officer derived an improper personal profit; or
- willful misconduct.

Our amended and restated bylaws provide that we are required to indemnify our directors and executive officers and may indemnify our employees and other agents to the fullest extent required or permitted by Wisconsin law. Additionally, our amended and restated bylaws require us under certain circumstances to advance reasonable expenses incurred by a director or officer who is a party to a proceeding for which indemnification may be available.

Wisconsin law further provides that it is the public policy of the State of Wisconsin to require or permit indemnification, allowance of expenses and insurance to the extent required or permitted under Wisconsin law for any liability incurred in connection with a proceeding involving a federal or state statute, rule or regulation regulating the offer, sale or purchase of securities.

Under Wisconsin law, a director is not personally liable for breach of any duty resulting solely from his or her status as a director, unless it is proved that the director’s conduct constituted conduct described in the

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bullet points above. In addition, we maintain directors' and officers' liability insurance that will insure against certain liabilities, subject to applicable restrictions.

NASDAQ Capital Market Listing

Our common stock is listed on the NASDAQ Capital Market under the symbol "OESX."

Transfer Agent and Registrar

The transfer agent and registrar for our common stock is Wells Fargo Shareowner Services.

DESCRIPTION OF WARRANTS

We may issue other warrants in the future for the purchase of debt securities, common stock or other securities. Warrants may be issued independently or together with debt securities or common stock offered by any prospectus supplement and/or other offering material and may be attached to or separate from any such offered securities. Each series of warrants will be issued under a separate warrant agreement to be entered into between us and a bank or trust company, as warrant agent, all as will be set forth in the prospectus supplement and/or other offering material relating to the particular issue of warrants. The warrant agent will act solely as our agent in connection with the warrants and will not assume any obligation or relationship of agency or trust for or with any holders of warrants or beneficial owners of warrants.

The following summary of certain provisions of the warrants we may issue in the future does not purport to be complete and is subject to, and is qualified in its entirety by reference to, all provisions of the warrant agreements.

Reference is made to the prospectus supplement and/or other offering material relating to the particular issue of warrants offered pursuant to such prospectus supplement and/or other offering material for the terms of and information relating to such warrants, including, where applicable:

- the designation, aggregate principal amount, currencies, denominations and terms of the series of debt securities purchasable upon exercise of warrants to purchase debt securities and the price at which such debt securities may be purchased upon such exercise;
- the number of shares of common stock purchasable upon the exercise of warrants to purchase common stock and the price at which such number of shares of common stock may be purchased upon such exercise;
- the designation and number of units of other securities purchasable upon the exercise of warrants to purchase other securities and the price at which such number of units of such other securities may be purchased upon such exercise;
- the date on which the right to exercise such warrants shall commence and the date on which such right shall expire;
- U.S. federal income tax consequences applicable to such warrants;
- the amount of warrants outstanding as of the most recent practicable date; and
- any other terms of such warrants.

Warrants will be issued in registered form only. The exercise price for warrants will be subject to adjustment in accordance with the applicable prospectus supplement and/or other offering material.

Each warrant will entitle the holder thereof to purchase such principal amount of debt securities or such number of shares of common stock or other securities at such exercise price as shall in each case be set forth in, or calculable from, the prospectus supplement and/or other offering material relating to the warrants, which exercise price may be subject to adjustment upon the occurrence of certain events as set forth in such prospectus supplement and/or other offering material. After the close of business on the expiration date, or such later date to which such expiration date may be extended by us, unexercised warrants will become void. The place or places where, and the manner in which, warrants may be exercised shall be specified in the prospectus supplement and/or other offering material relating to such warrants.

Prior to the exercise of any warrants to purchase debt securities, common stock or other securities, holders of such warrants will not have any of the rights of holders of debt securities, common stock or other securities, as the case may be, purchasable upon such exercise, including the right to receive payments of

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principal of, premium, if any, or interest, if any, on the debt securities purchasable upon such exercise or to enforce covenants in the applicable indenture, or to receive payments of dividends, if any, on the common stock purchasable upon such exercise, or to exercise any applicable right to vote.

DESCRIPTION OF SUBSCRIPTION RIGHTS

We may issue subscription rights to purchase debt securities, common stock, preferred stock, other securities described in this prospectus or any combination thereof. These subscription rights may be issued independently or together with any other security offered by us and may or may not be transferable by the shareholder receiving the subscription rights in such offering. In connection with any offering of subscription rights, we may enter into a standby arrangement with one or more underwriters or other investors pursuant to which the underwriters or other investors may be required to purchase any securities remaining unsubscribed for after such offering.

To the extent appropriate, the applicable prospectus supplement will describe the specific terms of the subscription rights to purchase shares of our securities offered thereby, including the following:

- the date of determining the shareholders entitled to the rights distribution;
- the price, if any, for the subscription rights;
- the exercise price payable for the debt securities, common stock, preferred stock or other securities upon the exercise of the subscription right;
- the number of subscription rights issued to each shareholder;
- the amount of debt securities, common stock, preferred stock or other securities that may be purchased per each subscription right;
- any provisions for adjustment of the amount of securities receivable upon exercise of the subscription rights or of the exercise price of the subscription rights;
- the extent to which the subscription rights are transferable;
- the date on which the right to exercise the subscription rights shall commence, and the date on which the subscription rights shall expire;
- the extent to which the subscription rights may include an over-subscription privilege with respect to unsubscribed securities;
- the material terms of any standby underwriting or purchase arrangement entered into by us in connection with the offering of subscription rights;
- any applicable federal income tax considerations; and
- any other terms of the subscription rights, including the terms, procedures and limitations relating to the transferability, exchange and exercise of the subscription rights.

DESCRIPTION OF STOCK PURCHASE CONTRACTS AND STOCK PURCHASE UNITS

We may issue stock purchase contracts, including contracts obligating holders to purchase from us, and obligating us to sell to the holders, a specified number of shares of common stock or other securities at a future date or dates, which we refer to in this prospectus as “stock purchase contracts.” The price per share of the securities and the number of shares of the securities may be fixed at the time the stock purchase contracts are issued or may be determined by reference to a specific formula set forth in the stock purchase contracts. The stock purchase contracts may be issued separately or as part of units consisting of a stock purchase contract and debt securities, warrants, other securities or debt obligations of third parties, including U.S. treasury securities, securing the holders’ obligations to purchase the securities under the stock purchase contracts, which we refer to herein as “stock purchase units.” The stock purchase contracts may require holders to secure their obligations under the stock purchase contracts in a specified manner. The stock purchase contracts also may require us to make periodic payments to the holders of the stock purchase units or vice versa, and those payments may be unsecured or refunded on some basis.

The stock purchase contracts, and, if applicable, collateral or depositary arrangements, relating to the stock purchase contracts or stock purchase units, will be filed with the SEC in connection with the offering of stock purchase contracts or stock purchase units. The prospectus supplement and/or other offering material relating to a particular issue of stock purchase contracts or stock purchase units will describe the terms of those stock purchase contracts or stock purchase units, including the following:

- if applicable, a discussion of material U.S. federal income tax considerations; and
- any other information we think is important about the stock purchase contracts or the stock purchase units.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC. We also filed a registration statement on Form S-3, including exhibits, under the Securities Act of 1933, as amended, or the Securities Act, with respect to the securities offered by this prospectus. This prospectus is a part of the registration statement, but does not contain all of the information included in the registration statement or the exhibits. You may read and copy the registration statement and any other document that we file at the SEC's public reference room at 100 F Street, N.E., Washington D.C. 20549. You can call the SEC at 1-800-SEC-0330 for further information on the operation of the public reference room. You can also find our public filings with the SEC on the internet at a web site maintained by the SEC located at <http://www.sec.gov>.

We are "incorporating by reference" specified documents that we file with the SEC, which means:

- incorporated documents are considered part of this prospectus;
- we are disclosing important information to you by referring you to those documents; and
- information we file with the SEC will automatically update and supersede information contained in this prospectus.

We incorporate by reference the documents listed below and any future filings we make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act (i) after the date of the registration statement on Form S-3 filed under the Securities Act with respect to securities offered by this prospectus and prior to the effectiveness of such registration statement and (ii) after the date of this prospectus and before the end of the offering of the securities pursuant to this prospectus:

- our Annual Report on Form 10-K for the year ended March 31, 2016;
- our Definitive Proxy Statement on Schedule 14A filed June 29, 2016;
- our Quarterly Reports on Form 10-Q for the quarters ended June 30, 2016, September 30, 2016 and December 31, 2016;
- our Current Reports on Form 8-K filed July 8, 2016, August 4, 2016, August 30, 2016, December 29, 2016 and February 21, 2017; and
- the description of our common stock contained in or incorporated into our Registration Statement on Form 8-A, filed March 31, 2010, and any amendment or report updating that description.

Information in this prospectus supersedes related information in the documents listed above, and information in subsequently filed documents supersedes related information in both this prospectus and the incorporated documents.

We will promptly provide, without charge to you, upon written or oral request, a copy of any or all of the documents incorporated by reference in this prospectus, other than exhibits to those documents, unless the exhibits are specifically incorporated by reference in those documents. Requests should be directed to:

Investor Relations
Orion Energy Systems
2210 Woodland Drive
Manitowoc, WI 54220
(800) 660-9340

You can also find these filings on our website at www.oesx.com. We are not incorporating the information on our website other than these filings into this prospectus.

SELLING SHAREHOLDERS

This prospectus also relates to the possible resale of up to 3,407,638 shares of our common stock that were issued and outstanding prior to the original date of filing of the registration statement of which this prospectus forms a part, consisting of shares acquired by our officers and directors through open market transactions, shares issued in lieu of director fees, or upon exercise or vesting of stock option or restricted stock grants made pursuant to our stock plans.

Information about selling shareholders, if any, including their identities and the number of shares of common stock to be registered on their behalf, will be set forth in a prospectus supplement, in a post-effective amendment or in filings we make with the Securities and Exchange Commission under the Securities Exchange Act of 1934, as amended, that are incorporated by reference into this prospectus. Selling shareholders shall not sell any shares of our common stock pursuant to this prospectus until we have identified such selling shareholders and the shares being offering for resale by such selling shareholders in a subsequent prospectus supplement. However, the selling shareholders may sell or transfer all or a portion of their shares of our common stock pursuant to any available exemption from the registration requirements of the Securities Act of 1933, as amended. We will not receive any proceeds from any sale of shares by a selling shareholder under this prospectus and any prospectus supplement. We may pay all expenses incurred with respect to the registration of the shares of common stock owned by the selling shareholders, other than underwriting fees, discounts or commissions which will be borne by the selling shareholders.

PLAN OF DISTRIBUTION

We and/or the selling shareholders may sell securities in any one or more of the following ways from time to time: (i) through agents; (ii) to or through underwriters; (iii) through brokers or dealers; (iv) directly by us or the selling shareholders to purchasers, including through a specific bidding, auction or other process; (v) upon the exercise of subscription rights that may be distributed to our shareholders; or (vi) through a combination of any of these methods of sale. The applicable prospectus supplement and/or other offering material will contain the terms of the transaction, name or names of any underwriters, dealers, agents and the respective amounts of securities underwritten or purchased by them, the initial public offering price of the securities, and the applicable agent's commission, dealer's purchase price or underwriter's discount. Any dealers and agents participating in the distribution of the securities may be deemed to be underwriters, and compensation received by them on resale of the securities may be deemed to be underwriting discounts.

Any initial offering price, dealer purchase price, discount or commission may be changed from time to time.

The securities may be distributed from time to time in one or more transactions, at negotiated prices, at a fixed price or fixed prices (that may be subject to change), at market prices prevailing at the time of sale, at various prices determined at the time of sale or at prices related to prevailing market prices.

Offers to purchase securities may be solicited directly by us or the selling shareholders or by agents designated by us or the selling shareholders from time to time. Any such agent may be deemed to be an underwriter, as that term is defined in the Securities Act of 1933, of the securities so offered and sold.

If underwriters are utilized in the sale of any securities in respect of which this prospectus is being delivered, such securities will be acquired by the underwriters for their own account and may be resold from time to time in one or more transactions, including negotiated transactions, at fixed public offering prices or at varying prices determined by the underwriters at the time of sale. Securities may be offered to the public either through underwriting syndicates represented by managing underwriters or directly by one or more underwriters. If any underwriter or underwriters are utilized in the sale of securities, unless otherwise indicated in the applicable

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prospectus supplement and/or other offering material, the obligations of the underwriters are subject to certain conditions precedent, and that the underwriters will be obligated to purchase all such securities if any are purchased.

If a dealer is utilized in the sale of the securities in respect of which this prospectus is delivered, we or the selling shareholders will sell such securities to the dealer, as principal. The dealer may then resell such securities to the public at varying prices to be determined by such dealer at the time of resale. Transactions through brokers or dealers may include block trades in which brokers or dealers will attempt to sell shares as agent but may position and resell as principal to facilitate the transaction or in crosses, in which the same broker or dealer acts as agent on both sides of the trade. Any such dealer may be deemed to be an underwriter, as such term is defined in the Securities Act of 1933, of the securities so offered and sold.

Offers to purchase securities may be solicited directly by us or the selling shareholders and the sale thereof may be made directly to institutional investors or others, who may be deemed to be underwriters within the meaning of the Securities Act of 1933 with respect to any resale thereof.

If so indicated in the applicable prospectus supplement and/or other offering material, we or the selling shareholders may authorize agents and underwriters to solicit offers by certain institutions to purchase securities at the public offering price set forth in the applicable prospectus supplement and/or other offering material pursuant to delayed delivery contracts providing for payment and delivery on the date or dates stated in the applicable prospectus supplement and/or other offering material. Such delayed delivery contracts will be subject only to those conditions set forth in the applicable prospectus supplement and/or other offering material.

Agents, underwriters and dealers may be entitled under relevant agreements to indemnification against certain liabilities, including liabilities under the Securities Act of 1933, or to contribution with respect to payments which such agents, underwriters and dealers may be required to make in respect thereof. The terms and conditions of any indemnification or contribution will be described in the applicable prospectus supplement and/or other offering material.

We may also sell shares of our common stock through various arrangements involving mandatorily or optionally exchangeable securities, and this prospectus may be delivered in connection with those sales.

We may enter into derivative, sale or forward sale transactions with third parties, or sell securities not covered by this prospectus to third parties in privately negotiated transactions. If the applicable prospectus supplement and/or other offering material indicates, in connection with those transactions, the third parties may sell securities covered by this prospectus and the applicable prospectus supplement and/or other offering material, including in short sale transactions and by issuing securities not covered by this prospectus but convertible into, or exchangeable for or representing beneficial interests in such securities covered by this prospectus, or the return of which is derived in whole or in part from the value of such securities. The third parties may use securities received under derivative, sale or forward sale transactions, or securities pledged by us or borrowed from us or others to settle those sales or to close out any related open borrowings of stock, and may use securities received from us in settlement of those transactions to close out any related open borrowings of stock. The third party in such sale transactions will be an underwriter and will be identified in the applicable prospectus supplement (or a post-effective amendment) and/or other offering material.

Underwriters, broker-dealers or agents may receive compensation in the form of commissions, discounts or concessions from us or the selling shareholders. Underwriters, broker-dealers or agents may also receive compensation from the purchasers of shares for whom they act as agents or to whom they sell as principals, or both. Compensation as to a particular underwriter, broker-dealer or agent might be in excess of customary commissions and will be in amounts to be negotiated in connection with transactions involving shares. In effecting sales, broker-dealers may arrange for other broker-dealers to participate in the resales.

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Each series of securities will be a new issue and, other than the common stock, which is listed on the NASDAQ Capital Market, will have no established trading market. We may elect to list any series of securities on an exchange, and in the case of the common stock, on any additional exchange, but, unless otherwise specified in the applicable prospectus supplement and/or other offering material, we shall not be obligated to do so. No assurance can be given as to the liquidity of the trading market for any of the securities.

Agents, underwriters and dealers may engage in transactions with, or perform services for us and our respective subsidiaries in the ordinary course of business.

Any underwriter may engage in overallotment, stabilizing transactions, short covering transactions and penalty bids in accordance with Regulation M under the Securities Exchange Act of 1934. Overallotment involves sales in excess of the offering size, which create a short position. Stabilizing transactions permit bids to purchase the underlying security so long as the stabilizing bids do not exceed a specified maximum. Short covering transactions involve purchases of the securities in the open market after the distribution is completed to cover short positions. Penalty bids permit the underwriters to reclaim a selling concession from a dealer when the securities originally sold by the dealer are purchased in a covering transaction to cover short positions. Those activities may cause the price of the securities to be higher than it would otherwise be. If commenced, the underwriters may discontinue any of the activities at any time. An underwriter may carry out these transactions on the NASDAQ Capital Market, in the over-the-counter market or otherwise.

The place and time of delivery for securities will be set forth in the accompanying prospectus supplement and/or other offering material for such securities.

Selling shareholders may also sell the shares in accordance with Rule 144 under the Securities Act of 1933 rather than pursuant to this prospectus, regardless of whether the shares are covered by this prospectus.

LEGAL MATTERS

The validity of the securities offered by this prospectus will be passed upon for us by Foley & Lardner LLP. The validity of the securities offered by this prospectus will be passed upon for any underwriters or agents by counsel named in the applicable prospectus supplement. The opinions of Foley & Lardner LLP and counsel for any underwriters or agents may be conditioned upon and may be subject to assumptions regarding future action required to be taken by us and any underwriters, dealers or agents in connection with the issuance of any securities. The opinions of Foley & Lardner LLP and counsel for any underwriters or agents may be subject to other conditions and assumptions, as indicated in the prospectus supplement.

EXPERTS

The financial statements and schedule as of March 31, 2016 and 2015 and for each of the three years in the period ended March 31, 2016 and management's assessment of the effectiveness of internal control over financial reporting as of March 31, 2016 incorporated by reference in this Prospectus have been so incorporated in reliance on the reports of BDO USA, LLP, an independent registered public accounting firm (the report on the effectiveness of internal control over financial reporting expresses an adverse opinion on the effectiveness of the company's internal control over financial reporting as of March 31, 2016), incorporated herein by reference, given on the authority of said firm as experts in auditing and accounting.

PART II**INFORMATION NOT REQUIRED IN PROSPECTUS****Item 14. Other Expenses of Issuance and Distribution.**

The aggregate estimated expenses, other than underwriting discounts and commissions, in connection with the sale of the securities being registered hereby are currently anticipated to be as follows (all amounts are estimated except the Securities and Exchange Commission registration fee). All expenses of the offering will be paid by Orion Energy Systems, Inc.

	Amount
Securities and Exchange Commission registration fee	\$ 1,449
Legal fees and expenses	25,000
Accounting fees and expenses	10,000
Miscellaneous (including any applicable listing fees, printing fees, rating agency fees, trustee and transfer agent's fees and expenses)	33,551
Total	<u>\$70,000</u>

Item 15. Indemnification of Directors and Officers.

Our amended and restated bylaws provide that, to the fullest extent permitted or required by Wisconsin law, we will indemnify all of our directors and officers, any trustee of any of our employee benefit plans, and person who is serving at our request as a director, officer, employee or agent of another entity, against certain liabilities and losses incurred in connection with these positions or services. We will indemnify these parties to the extent the parties are successful in the defense of a proceeding and in proceedings in which the party is not successful in defense of the proceeding unless, in the latter case only, it is determined that the party breached or failed to perform his or her duties to us and this breach or failure constituted:

- a willful failure to deal fairly with us or our shareholders in connection with a matter in which the director or officer has a material conflict of interest;
- a violation of criminal law, unless the director or officer had reasonable cause to believe his or her conduct was unlawful;
- a transaction from which the director or officer derived an improper personal profit; or
- willful misconduct.

Our amended and restated bylaws provide that we are required to indemnify our directors and executive officers and may indemnify our employees and other agents to the fullest extent required or permitted by Wisconsin law. Additionally, our amended and restated bylaws require us under certain circumstances to advance reasonable expenses incurred by a director or officer who is a party to a proceeding for which indemnification may be available.

Wisconsin law further provides that it is the public policy of the State of Wisconsin to require or permit indemnification, allowance of expenses and insurance to the extent required or permitted under Wisconsin law for any liability incurred in connection with a proceeding involving a federal or state statute, rule or regulation regulating the offer, sale or purchase of securities.

Under Wisconsin law, a director is not personally liable for breach of any duty resulting solely from his or her status as a director, unless it is proved that the director's conduct constituted conduct described in the bullet points above. In addition, we carry directors' and officers' liability insurance.

Item 16. Exhibits and Financial Statement Schedules.

The exhibits listed in the accompanying Exhibit Index are filed or incorporated by reference as part of this Registration Statement.

Item 17. Undertakings.

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:
 - (i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;
 - (ii) 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 Securities and Exchange Commission (the "Commission") pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and
 - (iii) 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 the registration statement;

provided, however, that paragraphs (i), (ii) and (iii) do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission 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.

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

(i) If the Registrant is relying on Rule 430B:

(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 the 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.

(ii) If the registrant is subject to Rule 430C, each prospectus filed pursuant to Rule 424(b) as part of a registration statement relating to an offering, other than registration statements relying on Rule 430B or other than prospectuses filed in reliance on Rule 430A, shall be deemed to be part of and included in the registration statement as of the date it is first used after effectiveness. *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 first use, 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 date of first use.

(6) 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:

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

(ii) 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;

(iii) 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

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

The undersigned Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of its annual report pursuant to Section 13(a) or 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 therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

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 foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the Commission such indemnification is against public policy as expressed in the Securities Act of 1933 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

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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 issue 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 of 1933 and will be governed by the final adjudication of such issue.

The undersigned Registrant hereby undertakes to file an application for the purpose of determining the eligibility of the trustee to act under subsection (a) of Section 310 of the Trust Indenture Act in accordance with the rules and regulations prescribed by the Commission under Section 305(b)(2) of the Trust Indenture Act.

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 City of Manitowoc, State of Wisconsin, on this 28th day of February, 2017.

ORION ENERGY SYSTEMS, INC.

By: /s/ John H. Scribante
John H. Scribante
Chief Executive Officer

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities indicated below on February 28, 2017. Each person whose signature appears below constitutes and appoints John H. Scribante and William T. Hull, and each of them individually, his or her true and lawful attorney-in-fact and agent, with full power of substitution and revocation, for him or her and in his or her name, place and stead, in any and all capacities, to sign any and all amendments (including post-effective amendments) to this Registration Statement, and any additional registration statement to be filed pursuant to Rule 462(b) under the Securities Act of 1933, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or either of them, may lawfully do or cause to be done by virtue hereof.

<u>Signature</u>	<u>Title</u>
<u>/s/ John H. Scribante</u> John H. Scribante	Chief Executive Officer and Director (Principal Executive Officer)
<u>/s/ William T. Hull</u> William T. Hull	Chief Financial Officer, Chief Accounting Officer and Treasurer (Principal Financial and Accounting Officer)
<u>/s/ Michael W. Altschaeffl</u> Michael W. Altschaeffl	Chairman of the Board
<u>/s/ Kenneth L. Goodson, Jr.</u> Kenneth L. Goodson, Jr.	Director
<u>/s/ James R. Kackley</u> James R. Kackley	Director
<u>/s/ Michael J. Potts</u> Michael J. Potts	Director
<u>/s/ Anthony L. Otten</u> Anthony L. Otten	Director

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<u>Signature</u>	<u>Title</u>
<u>/s/ Elizabeth Gamsky Rich</u> Elizabeth Gamsky Rich	Director
<u>/s/ Mark C. Williamson</u> Mark C. Williamson	Director
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EXHIBIT INDEX

<u>Exhibit Number</u>	<u>Document Description</u>
(1)	Form of Underwriting Agreement.*
(4.1)	Amended and Restated Articles of Incorporation of the Company (incorporated by reference to Exhibit 3.3 to the Company's Registration Statement on Form S-1 (Reg. No. 333-145569)).
(4.2)	Amended and Restated Bylaws of the Company (incorporated by reference to Exhibit 3.2 to the Company's Form 10-Q filed on November 8, 2013).
(4.3)	Rights Agreement, dated as of January 7, 2009, between Orion Energy Systems, Inc. and Wells Fargo Bank, N.A., which includes as Exhibit A thereto the Form of Right Certificate and as Exhibit B thereto the Summary of Common Share Purchase Rights (incorporated by reference to Exhibit 4.1 to the Company's Registration Statement on Form 8-A filed January 8, 2009 (File No. 001-33887)).
(4.4)	Form of Indenture. (incorporated by reference to Exhibit 4.4 to the Company's Registration Statement on Form S-3 (Reg. No. 333-193411))
(4.5)	Form of Debt Securities.*
(4.6)	Form of Warrant.*
(4.7)	Form of Warrant Agreement.*
(4.8)	Form of Stock Purchase Contract.*
(5)	Opinion of Foley & Lardner LLP (including consent of counsel).
(12.1)	Computation of Ratios of Earnings to Fixed Charges
(23.1)	Consent of Foley & Lardner LLP (filed as part of Exhibit (5)).
(23.2)	Consent of BDO USA, LLP.
(24)	Powers of Attorney (included on the signature page to this Registration Statement).
(25)	Form T-1 Statement of Eligibility and Qualification under the Trust Indenture Act of 1939.**

* If required, to be filed by amendment or under subsequent Current Report on Form 8-K.

** To be filed in accordance with the requirements of Section 305(b)(2) of the Trust Indenture Act of 1939 and Rule 5b-3 thereunder.

Documents incorporated by reference to filings made by Orion Energy Systems, Inc. under the Securities Exchange Act of 1934 are under SEC File No. 001-33887.



ATTORNEYS AT LAW
 777 EAST WISCONSIN AVENUE
 MILWAUKEE, WI 53202-5306
 414.271.2400 TEL
 414.297.4900 FAX
 WWW.FOLEY.COM

CLIENT/MATTER NUMBER
 042365-0412

February 28, 2017

Orion Energy Systems, Inc.
 2210 Woodland Drive
 Manitowoc, WI 54220

Ladies and Gentlemen:

We have acted as securities counsel for Orion Energy Systems, Inc., a Wisconsin corporation (the "Company"), in connection with the preparation of a Registration Statement on Form S-3 (the "Registration Statement"), including the prospectus constituting a part thereof (the "Prospectus"), to be filed with the Securities and Exchange Commission (the "SEC") under the Securities Act of 1933, as amended (the "Securities Act"), relating to (1) the potential issuance and sale by the Company from time to time of up to \$75,000,000 aggregate amount of any of the following: (i) shares of the Company's common stock, no par value (the "Common Stock"), with attached common share purchase rights (the "Common Share Purchase Rights"); (ii) shares of the Company's preferred stock, \$.01 par value (the "Preferred Stock"); (iii) contracts (the "Stock Purchase Contracts") that obligate holders to purchase from the Company, and the Company to sell to these holders, shares of the Common Stock or other securities at a future date; (iv) stock purchase units (the "Stock Purchase Units") consisting of a Stock Purchase Contract and either debt securities, warrants or other securities of the Company or debt obligations of third parties that are pledged to secure the holder's obligations to purchase the Common Stock, the Preferred Stock or other securities of the Company under Stock Purchase Contracts; (v) debt securities of the Company (the "Debt Securities"); (vi) subscription rights (the "Rights") to purchase Debt Securities, Common Stock, Preferred Stock or other securities of the Company (or any combination thereof); and (vii) warrants (the "Warrants") to purchase Common Stock, Preferred Stock, Debt Securities or other securities of the Company, and (2) the potential issuance and sale of up to 3,407,638 shares of Common Stock to be sold by certain selling shareholders (collectively, the "Selling Shareholders") (the "Secondary Shares"). The Common Stock, the Common Share Purchase Rights, the Preferred Stock, the Stock Purchase Contracts, the Stock Purchase Units, the Debt Securities, the Rights, the Warrants and the Secondary Shares are referred to herein collectively as the "Securities." The Prospectus provides that it will be supplemented in the future by one or more supplements to such Prospectus and/or other offering material in connection with the Company's specific proposed offering of any of such Securities (each, a "Prospectus Supplement").

As securities counsel to the Company in connection with the proposed potential issuance and sale of the above-referenced Securities, we have examined: (i) the Registration Statement, including the Prospectus, and the exhibits (including those incorporated by reference) constituting a part of the Registration Statement; (ii) the Company's Amended and Restated Articles of Incorporation and Amended and Restated Bylaws, each as amended to date; (iii) the Form of Indenture, filed as an exhibit to the Registration Statement; (iv) the Rights Agreement (the "Rights Agreement"), dated as of January 7, 2009, between the Company and Wells Fargo Bank, N.A., as filed as an exhibit to the Company's Form 8-A filed January 8, 2009 (File No. 001-33887); (v) certain resolutions of the Board of Directors of the Company relating to the registration of the Securities; and (vi) such other proceedings, documents and records as we have deemed necessary or appropriate to enable us to render this opinion.

BOSTON	JACKSONVILLE	MILWAUKEE	SAN DIEGO	TALLAHASSEE
BRUSSELS	LOS ANGELES	NEW YORK	SAN FRANCISCO	TAMPA
CHICAGO	MADISON	ORLANDO	SHANGHAI	TOKYO
DETROIT	MIAMI	SACRAMENTO	SILICON VALLEY	WASHINGTON, D.C.

In our examination of the above-referenced documents, we have assumed the genuineness of all signatures, the authenticity of all documents, certificates and instruments submitted to us as originals and the conformity with the originals of all documents submitted to us as copies. We have also assumed that (i) the Registration Statement, and any amendments thereto (including post-effective amendments), will have become effective and will comply with all applicable laws; (ii) a Prospectus Supplement, if required, will have been prepared and filed with the SEC describing the Securities offered thereby; (iii) all Securities will be issued and sold in compliance with applicable federal and state securities laws and in the manner stated in the Registration Statement and any applicable Prospectus Supplement; (iv) any indenture (including the Form of Indenture) providing for the issuance of Debt Securities, together with any supplemental indenture or officer's certificate setting forth the terms of a series of Debt Securities to be issued under the indenture, will each be duly authorized, executed and delivered by the parties thereto in substantially the form reviewed by us; (v) a Form T-1 will be filed with the SEC with respect to the trustee executing any indenture or any supplemental indenture to such indenture; (vi) a definitive purchase, underwriting, placement, dealer or similar agreement with respect to any Securities offered will have been duly authorized and validly executed and delivered by the Company and the other parties thereto; (vii) any Securities issuable upon conversion, exchange or exercise of any Security being offered will have been duly authorized, created and, if appropriate, reserved for issuance upon such conversion, exchange or exercise; and (viii) with respect to shares of Common Stock or Preferred Stock offered, there will be sufficient shares of Common Stock or Preferred Stock authorized under the Company's Amended and Restated Articles of Incorporation, as amended, and not otherwise reserved for issuance.

Based upon and subject to the foregoing and the other matters set forth herein, and having regard for such legal considerations as we deem relevant, we are of the opinion that:

1. The Company validly exists as a corporation under the laws of the State of Wisconsin.
2. All requisite actions necessary to make the shares of Common Stock subsequently offered by the Company under the Registration Statement validly issued, fully paid and non-assessable shall have been taken when:
 - a. The Company's Board of Directors, or a committee thereof duly authorized by the Board of Directors, has adopted appropriate resolutions to authorize the issuance and sale of the Common Stock; and
 - b. Such shares of Common Stock have been issued and sold by the Company for the consideration contemplated by, and otherwise in conformity with, the Registration Statement, as supplemented by a Prospectus Supplement with respect to such issuance and sale, and the acts, proceedings and documents referred to above.

3. The Common Share Purchase Rights attached to the Common Stock, when issued pursuant to the Rights Agreement, will be validly issued.

4. All requisite actions necessary to make the shares of Preferred Stock subsequently offered by the Company under the Registration Statement validly issued, fully paid and non-assessable shall have been taken when:

a. The Company's Board of Directors, or a committee thereof duly authorized by the Board of Directors, has adopted appropriate resolutions to establish the voting powers, designations, preferences and relative, participating, optional or other special rights, if any, or the qualifications, limitations or restrictions, if any, and other terms of such shares as set forth in or contemplated by the Registration Statement, the exhibits thereto and any Prospectus Supplement relating to such Preferred Stock, and to authorize the issuance and sale of such shares of Preferred Stock;

b. Articles of Amendment to the Company's Amended and Restated Articles of Incorporation, as amended, with respect to any such established voting powers, designations, preferences and relative, participating, optional or other special rights, if any, or the qualifications, limitations or restrictions, if any, and other terms of such shares have been filed with the Wisconsin Department of Financial Institutions in the form and manner required by law; and

c. Such shares of Preferred Stock have been issued and sold by the Company for the consideration contemplated by, and otherwise in conformity with, the Registration Statement, as supplemented by a Prospectus Supplement with respect to such issuance and sale, and the acts, proceedings and documents referred to above.

5. All requisite actions necessary to make the Stock Purchase Contracts and Stock Purchase Units subsequently offered by the Company under the Registration Statement valid, legal and binding obligations of the Company, subject to (i) bankruptcy, insolvency, reorganization, fraudulent transfer, fraudulent conveyance, moratorium and other similar laws of general application affecting the rights and remedies of creditors and (ii) general principles of equity, regardless of whether applied in a proceeding in equity or at law, shall have been taken when:

a. The Company's Board of Directors, or a committee thereof or one or more officers of the Company, in each case duly authorized by the Board of Directors, has taken action to approve and establish the terms and form of such Stock Purchase Contracts and the documents, including any agreements, evidencing and used in connection with the issuance and sale of such Stock Purchase Units, and to authorize the issuance and sale of such Stock Purchase Contracts and Stock Purchase Units;

b. The terms of such Stock Purchase Contracts and Stock Purchase Units and of their issuance and sale have been established so as not to violate any applicable law or result in a default under or breach of any agreement or instrument binding upon the Company and so as to comply with any requirements or restrictions imposed by any court or governmental entity having jurisdiction over the Company;

c. Such Stock Purchase Contracts and Stock Purchase Units have been duly executed and delivered in accordance with their respective terms and provisions, as applicable; and

d. Such Stock Purchase Contracts and Stock Purchase Units have been sold by the Company for the consideration contemplated by, and otherwise in conformity with, the Registration Statement, as supplemented by a Prospectus Supplement with respect to such issuance and sale, and the acts, proceedings and documents referred to above.

6. All requisite actions necessary to make the Debt Securities subsequently offered by the Company under the Registration Statement valid, legal and binding obligations of the Company, subject to (i) bankruptcy, insolvency, reorganization, fraudulent transfer, fraudulent conveyance, moratorium and other similar laws of general application affecting the rights and remedies of creditors and (ii) general principles of equity, regardless of whether applied in a proceeding in equity or at law, shall have been taken when:

a. The Company's Board of Directors, or a committee thereof or one or more officers of the Company, in each case duly authorized by the Board of Directors, has taken action to establish the terms of such Debt Securities and to authorize the issuance and sale of such Debt Securities;

b. The terms of such Debt Securities and of their issuance and sale by the Company have been established in conformity with the underlying indenture so as not to violate any applicable law or result in a default under or breach of any agreement or instrument binding upon the Company and so as to comply with any requirements or restrictions imposed by any court or governmental entity having jurisdiction over the Company;

c. Such Debt Securities have been duly executed, authenticated and delivered in accordance with the terms and provisions of the underlying indenture; and

d. Such Debt Securities have been issued and sold by the Company for the consideration contemplated by, and otherwise in conformity with, the Registration Statement, as supplemented by a Prospectus Supplement with respect to such issuance and sale, and the acts, proceedings and documents referred to above.

7. All requisite actions necessary to make the Rights subsequently offered by the Company under the Registration Statement valid, legal and binding obligations of the Company, subject to (i) bankruptcy, insolvency, reorganization, fraudulent transfer, fraudulent conveyance, moratorium and other similar laws of general application affecting the rights and remedies of creditors and (ii) general principles of equity, regardless of whether applied in a proceeding in equity or at law, shall have been taken when:

a. The Company's Board of Directors, or a committee thereof or one or more officers of the Company, in each case duly authorized by the Board of Directors, has taken action to establish the terms of such Rights and to authorize the issuance and sale of such Rights;

b. The terms of such Rights and of their issuance and sale have been established so as not to violate any applicable law or result in a default or breach of any agreement or instrument binding upon the Company and so as to comply with any requirements or restrictions imposed by any court or governmental entity having jurisdiction over the Company; and

c. Such Rights have been issued and sold by the Company for the consideration contemplated by, and otherwise in conformity with, the Registration Statement, as supplemented by a Prospectus Supplement with respect to such issuance and sale, and the acts, proceedings and documents referred to above.

8. All requisite actions necessary to make the Warrants subsequently offered by the Company under the Registration Statement will be valid, legal and binding obligations of the Company, subject to (i) bankruptcy, insolvency, reorganization, fraudulent transfer, fraudulent conveyance, moratorium and other similar laws of general application affecting the rights and remedies of creditors and (ii) general principles of equity, regardless of whether applied in a proceeding in equity or at law, shall have been taken when:

a. The Company's Board of Directors, or a committee thereof or one or more officers of the Company, in each case duly authorized by the Board of Directors, has taken action to approve and establish the terms and form of the Warrants and the documents, including any warrant agreements, evidencing and used in connection with the issuance and sale of the Warrants, and to authorize the issuance and sale of such Warrants;

- b. The terms of such Warrants and of their issuance and sale by the Company have been established so as not to violate any applicable law or result in a default under or breach of any agreement or instrument binding upon the Company and so as to comply with any requirements or restrictions imposed by any court or governmental entity having jurisdiction over the Company;
 - c. Any such warrant agreements have been duly executed and delivered;
 - d. Such Warrants have been duly executed and delivered in accordance with the terms and provisions of any applicable warrant agreement; and
 - e. Such Warrants have been issued and sold by the Company for the consideration contemplated by, and otherwise in conformity with, the Registration Statement, as supplemented by a Prospectus Supplement with respect to such issuance and sale, and the acts, proceedings and documents referred to above.
9. Any Secondary Shares to be offered by the Selling Shareholders have been duly authorized and are validly issued, fully paid and non-assessable.

With respect to paragraphs 2, 4 and 9 above, at one time Section 180.0622(2)(b) of the Wisconsin Business Corporation Law imposed personal liability upon shareholders for debts owing to employees of the Company for services performed, but not exceeding six months' service in any one case. This statutory provision was repealed by 2005 Wisconsin Act 474, which provided that the repeal applies to debts incurred on or after June 14, 2006.

We express no opinion as to the laws of any jurisdiction other than the States of Wisconsin and New York and the federal laws of the United States.

Orion Energy Systems, Inc.
February 28, 2017
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We hereby consent to the reference to our firm under the caption “Legal Matters” in the Prospectus which is filed as part of the Registration Statement, and to the filing of this opinion as an exhibit to the Registration Statement. In giving this consent, we do not admit that we are “experts” within the meaning of Section 11 of the Securities Act or within the category of persons whose consent is required by Section 7 of the Securities Act.

Very truly yours,

/s/ Foley & Lardner LLP

Foley & Lardner LLP

Orion Energy Systems, Inc.
Ratio of Earnings (loss) to fixed charges
(in thousands, except ratios)

	Nine Months Ended		Fiscal Year Ended March 31,				
	December 31,		2016	2015	2014	2013	2012
	2016	2015					
Earnings (loss):							
Income (loss) before income taxes	\$ (5,257)	\$ (9,228)	\$ (20,090)	\$ (32,012)	\$ (8,257)	\$ (6,326)	\$ 853
Add: Fixed charges (see below)	372	361	481	588	695	835	899
Add: Amortization of capitalized interest	0	0	0	0	0	0	0
Less: Capitalized Interest	0	0	0	0	0	0	0
Total earnings (loss)	\$ (4,885)	\$ (8,867)	\$ (19,609)	\$ (31,424)	\$ (7,562)	\$ (5,491)	\$ 1,752
Fixed charges:							
Interest expense	\$ 203	\$ 223	\$ 297	\$ 376	\$ 481	\$ 567	\$ 551
Interest capitalized	0	0	0	0	0	0	0
Amortization of debt issue costs	83	85	114	156	41	42	52
Estimate of interest included within rental expense (a)	86	53	70	56	173	226	296
Total fixed charges	\$ 372	\$ 361	\$ 481	\$ 588	\$ 695	\$ 835	\$ 899
Ratio of earnings to fixed charges	(b)	(b)	(b)	(b)	(b)	(b)	1.9

(a) Interest portion of rental expense is estimated to equal 14% of such expense, which is considered a reasonable approximation of the interest factor.

(b) Earnings were insufficient to cover fixed charges by \$5,257,000 and \$9,228,000 for the nine months ended December 31, 2016 and 2015, respectively, and by \$20,090,000, \$32,061,000, \$8,257,000 and \$6,326,000 for the years 2016, 2015, 2014 and 2013, respectively. Total net loss includes net losses incurred of \$4,996,000 and \$9,256,000 for the nine months ended December 31, 2016 and 2015, respectively, and \$20,126,000, \$32,061,000, \$6,199,000 and \$10,399,000 for the years 2016, 2015, 2014 and 2013, respectively.

Coverage deficiency	\$ 5,257	\$ 9,228	\$ 20,090	\$ 32,012	\$ 8,257	\$ 6,326	NA
Net Income (loss)	\$ (4,996)	\$ (9,256)	\$ (20,126)	\$ (32,061)	\$ (6,199)	\$ (10,399)	NA

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Orion Energy Systems, Inc.
Manitowoc, Wisconsin

We hereby consent to the incorporation by reference in the Prospectus constituting a part of this Registration Statement on Form S-3 of our reports dated June 23, 2016, relating to the consolidated financial statements, and financial statement schedule, and the effectiveness of Orion Energy Systems, Inc.'s internal control over financial reporting, appearing in the Company's Annual Report on Form 10-K for the year ended March 31, 2016. Our report on the effectiveness of internal control over financial reporting expresses an adverse opinion on the effectiveness of the Company's internal control over financial reporting as of March 31, 2016.

We also consent to the reference to us under the caption "Experts" in the Prospectus.

/s/ BDO USA, LLP

Milwaukee, Wisconsin
February 28, 2017