

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

FORM S-3

REGISTRATION STATEMENT
UNDER
THE SECURITIES ACT OF 1933



ADVANCED ENERGY INDUSTRIES, INC.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

84-0846841
(I.R.S. Employer Identification No.)

**1595 Wynkoop Street, Suite 800
Denver, Colorado 80202
970-407-6626**

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

**Elizabeth K. Vonne
Executive Vice President, General Counsel & Corporate Secretary
1595 Wynkoop Street, Suite 800
Denver, Colorado 80202
970-407-6626**

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

with a copy to:

**Garrett F. Bishop
Foley & Lardner LLP
777 East Wisconsin Avenue
Milwaukee, Wisconsin 53202-5306
(414) 319-7024**

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

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

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

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

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

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

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

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

Large accelerated filer Accelerated filer Non-accelerated filer Smaller reporting company Emerging growth company

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



Advanced Energy Industries, Inc.

Debt Securities
Common Stock
Preferred Stock
Warrants
Purchase Contracts
Purchase Units
Units

We may offer and sell from time to time these securities 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 stockholders to be named in a prospectus supplement may offer and sell from time to time shares of our common stock in such amounts as set forth in a prospectus supplement. Unless otherwise set forth in a prospectus supplement, we will not receive any proceeds from the sale of shares of our common stock by any selling stockholders.

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 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 traded on the Nasdaq Global Select Market under the symbol "AEIS." Our executive offices are located at 1595 Wynkoop Street, Suite 800, Denver, Colorado 80202, and our telephone number is 970-407-6626.

Investment in our securities involves risks. You should consider the risks described under "Risk Factors" on page 2 of this prospectus, as well as the other information contained or incorporated by reference in this prospectus or the applicable prospectus supplement, before making an investment in 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 passed upon the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.

The date of this prospectus is February 17, 2023.

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ABOUT THIS PROSPECTUS

All references to “Advanced Energy,” the “company,” “we,” “us” and “our” in this prospectus mean, unless we otherwise indicate or the context indicates otherwise, Advanced Energy Industries, Inc. together with its consolidated subsidiaries. All references in this prospectus to our consolidated financial statements include, unless the context indicates otherwise, the related notes.

This prospectus is part of a registration statement that we filed with the United States Securities and Exchange Commission (the “SEC”) utilizing a “shelf” registration process. Under this shelf process, we may, from time to time, sell the securities or combinations of the securities described in this prospectus, and one or more of our stockholders may sell our common stock, in one or more offerings. This prospectus provides you with a general description of those securities. Each time we offer securities, we will provide a prospectus supplement that will contain specific information about the terms of that offering. The prospectus supplement may also add, update or change information contained in this prospectus. If there is any inconsistency between the information in this prospectus and any prospectus supplement, you should rely on the information in the prospectus supplement. You should read both this prospectus and any prospectus supplement 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 and/or other offering material. “Incorporated by reference” means that we can disclose important information to you by referring you to another document filed separately with the SEC. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. We are not making 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 or any prospectus supplement, as well as the information we file or 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.

SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus, any accompanying prospectus supplement and the documents incorporated by reference herein or therein, includes “forward-looking statements” within the meanings of Section 27A of the Securities Act of 1933, as amended (the “Securities Act”), and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”). All statements contained in this prospectus, any accompanying prospectus supplement and the documents incorporated by reference herein or therein, other than statements of historical fact, are “forward-looking statements.” For example, statements relating to our beliefs, expectations, plans, projections, forecasts, goals, and estimates are forward-looking statements, as are statements that specified actions, conditions, or circumstances will continue or change. Forward-looking statements involve risks and uncertainties. In some cases, forward-looking statements can be identified by the inclusion of words such as “believe,” “expect,” “plan,” “anticipate,” “estimate,” “may,” “might,” “could,” “should,” “will,” “continue,” “intend,” “goal,” and similar words.

Some of the forward-looking statements in this prospectus, any accompanying prospectus supplement and the documents incorporated by reference herein or therein, are, or reflect, our expectations or projections relating to:

- macroeconomic risks, including supply chain cost increases and other inflationary pressures, recession, changes in financial markets, economic volatility and cyclical, higher interest rates, labor shortages, foreign currency fluctuations, and pricing controls;
 - political and geographical risks, including trade and export controls, war, terrorism, international disputes and geopolitical tensions, natural disasters, public health issues, and industrial accidents;
 - sufficiency and availability of components and materials;
 - our level of and ability to manage backlog orders;
 - our ability to develop new products expeditiously and be successful in the design win process with our customers;
 - the ability to stay on the leading edge of innovation, and obtain and defend necessary intellectual property protections;
 - the ability to protect our trade secrets and confidential information from misappropriation or infringement;
-

- our future sales;
- our future profitability;
- our competition;
- market acceptance of, and demand for, our products;
- the fair value of our assets and financial instruments;
- research and development expenses;
- selling, general, and administrative expenses;
- sufficiency and availability of capital resources;
- ability to obtain equity or debt financing on favorable terms;
- capital expenditures;
- our production and operations strategy;
- our share repurchase program;
- our tax assets and liabilities;
- our other commitments and contingent liabilities;
- adequacy of our reserve for excess and obsolete inventory;
- adequacy of our warranty reserves;
- adequacy of reserves for bad debt, sales returns, and other reserves or impairments;
- our estimates of the fair value of assets acquired;
- restructuring activities and expenses;
- unanticipated costs in fulfilling our warranty obligations for solar inverters;
- the integration of our acquisitions;
- industry and market trends;
- our acquisition, divestiture, and joint venture activities; and
- cost fluctuations and pressures, including prices of components, commodities and raw materials, and costs of labor, transportation, energy, pension, and healthcare.

Our actual results could differ materially from those projected or assumed in our forward-looking statements because forward-looking statements by their nature are subject to risks and uncertainties. Factors that could contribute to these differences or prove our forward-looking statements, by hindsight, to be overly optimistic or unachievable include the factors described in Part I, Item 1A of our most recent Annual Report on Form 10-K under the heading “Risk Factors,” which are incorporated herein by reference. Other factors might also contribute to the differences between our forward-looking statements and our actual results. We assume no obligation to update any forward-looking statement or the reasons why our actual results might differ.

RISK FACTORS

Investing in our securities involves significant risks. Before making an investment decision, you should carefully consider the risks and other information we include or incorporate by reference in this prospectus and any prospectus supplement. In particular, you should consider the risk factors under the heading “Risk Factors” included in our most recent Annual Report on Form 10-K, as may be revised or supplemented by our subsequent Quarterly Reports on Form 10-Q or Current Reports on Form 8-K, each of which are on file with the SEC and are incorporated herein by reference, and which may be amended, supplemented or superseded from time to time by other reports we file with the SEC in the future. The risks and uncertainties we have described are not the only ones facing our company. Additional risks and uncertainties not currently known to us or that we currently deem immaterial may also affect our business operations and financial condition, which in turn could materially and adversely affect the trading price or value of our securities. As a result, you could lose all or part of your investment. Additional risk factors may be included in a prospectus supplement relating to a particular offering of securities.

ADVANCED ENERGY INDUSTRIES, INC.

Advanced Energy provides highly engineered, mission-critical, precision power conversion, measurement, and control solutions to our global customers. We design, manufacture, sell, and support precision power products that transform, refine, and modify the raw electrical power coming from either the utility or the building facility and convert it into various types of highly controllable, usable power that is predictable, repeatable, and customizable to meet the necessary requirements for powering a wide range of complex equipment. Many of our products enable customers to reduce or optimize their energy consumption through increased power conversion efficiency, power density, power coupling, and process control across a wide range of applications. Our plasma power solutions enable innovation in complex semiconductor and thin film plasma processes such as dry etch and deposition. Our broad portfolio of high and low voltage power products are used in a wide range of applications, such as semiconductor equipment, industrial production, medical and life science equipment, data centers computing, networking and telecommunications. We also supply related sensing, controls, and instrumentation products for advanced measurement and calibration of power and temperature for multiple industrial markets. Our network of global service support centers provides repair services, calibration, conversions, upgrades, refurbishments, and used equipment to companies using our products.

We incorporated in Colorado in 1981 and reincorporated in Delaware in 1995. Our executive offices are located at 1595 Wynkoop Street, Suite 800, Denver, Colorado 80202, and our telephone number is 970-407-6555.

USE OF PROCEEDS

Unless otherwise described in the applicable prospectus supplement, we intend to use the net proceeds from the sale of the securities to which this prospectus relates for general corporate purposes. General corporate purposes may include repayment of indebtedness, acquisitions or strategic investments in businesses or technologies, additions to working capital and/or capital expenditures. 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 stockholders.

DESCRIPTION OF CAPITAL STOCK

We are authorized to issue 70,000,000 shares of our common stock, \$0.001 par value per share, and 1,000,000 shares of preferred stock, \$0.001 par value per share. The following description of our common stock is a summary and does not purport to be complete. The description is subject to and qualified in its entirety by reference to our Amended and Restated Certificate of Incorporation (our “Certificate of Incorporation”), our Second Amended and Restated By-Laws (our “By-Laws”) and applicable Delaware law.

Common Stock

As of February 10, 2023, we had 37,468,514 shares of common stock issued and outstanding.

The holders of our common stock are entitled to one vote for each share held of record on all matters submitted to a vote of stockholders. Approval of a matter submitted to the stockholders generally requires the affirmative vote of a majority of the shares being voted on that matter. The General Corporation Law of the State of Delaware imposes a greater approval requirement on certain matters that may be submitted to stockholders, such as business combinations or the sale of all or substantially all of our assets. Amendments to our Certificate of Incorporation relating to the personal liability of our directors or relating to the requirements applicable to amending our Certificate of Incorporation require the approval of the holders of at least 66 2/3% of the then outstanding voting stock. Our By-Laws may be amended only with the approval of a majority of our board of directors or the holders of at least 66 2/3% of the then outstanding voting stock.

Subject to preferences that may be applicable to any outstanding shares of preferred stock that may be issued, the holders of our common stock are entitled to receive ratably any dividends that may be declared from time to time by the board of directors out of funds legally available for the payment of dividends. The holders of our common stock are entitled to share ratably in all assets remaining after payment of liabilities and liquidation preferences of any outstanding shares of preferred stock in the event of our liquidation, dissolution or winding up. Holders of our common stock have no preemptive rights or rights to convert their common stock into any other securities. There are no redemption or sinking fund provisions applicable to our common stock. All outstanding shares of our common stock are fully paid and non-assessable.

The transfer agent and registrar for our common stock is American Stock Transfer & Trust Company.

Preferred Stock

Our board of directors has the authority, without further action by the stockholders, to issue up to 1,000,000 shares of preferred stock, in one or more series, and to fix the rights, privileges and preferences of such shares of preferred stock. The rights, privileges and preferences of any series of preferred stock likely will be greater than the rights, privileges and preferences of the common stock. The issuance of preferred stock could adversely affect the voting power of the common stock and reduce the likelihood that the common stockholders will receive dividends or payments upon liquidation of our company. An issuance of preferred stock also may have the effect of delaying, deterring or preventing a change in control of the company.

Certain Statutory Provisions

Anti-takeover Effects of Section 203 of the Delaware General Corporation Law. We are subject to Section 203 of the Delaware General Corporation Law, an anti-takeover law. In general, Section 203 prohibits a Delaware corporation from engaging in any business combination with an “interested stockholder” for a period of three years following the date that the stockholder became an interested stockholder, subject to specified exceptions.

Section 203 defines an “interested stockholder” as a person who, together with affiliates and associates, owns, or, in some cases, within three years prior, did own, 15% or more of the corporation’s voting stock. Section 203 does not prohibit a business combination with an interested stockholder, if:

- prior to that date, the board of directors of the corporation approved either the business combination or the transaction that resulted in the stockholder becoming an interested stockholder;
- upon consummation of the transaction that resulted in the stockholder becoming an interested stockholder, the interested stockholder owned at least 85% of the voting stock of the corporation outstanding at the time the transaction commenced, excluding for purposes of determining the number of shares of voting stock outstanding (but not the voting stock owned by the interested stockholder) those shares owned by persons who are directors and also officers and by excluding employee stock plans in which employee participants do not have the right to determine confidentially whether shares held subject to the plan will be tendered in a tender or exchange offer; or
- on or subsequent to that date, the business combination is approved by the board of directors of the corporation and authorized at an annual or special meeting of stockholders, and not by written consent, by the affirmative vote of at least 66 2/3% of the outstanding voting stock that is not owned by the interested stockholder.

Section 203 defines a “business combination” to include the following:

- any merger or consolidation involving the corporation and the interested stockholder;
- any sale, transfer, pledge or other disposition of 10% or more of the assets of the corporation involving the interested stockholder;
- subject to certain exceptions, any transaction that results in the issuance or transfer by the corporation of any stock of the corporation to the interested stockholder;
- any transaction involving the corporation that has the effect of increasing the proportionate share of the stock of any class or series of the corporation beneficially owned by the interested stockholder; or

- the receipt by the interested stockholder of the benefit of any loans, advances, guarantees, pledges or other financial benefits provided by or through the corporation.

DESCRIPTION OF THE DEBT SECURITIES

The following description of the debt securities sets forth the general terms and provisions of the debt securities to which any prospectus supplement and/or other offering material may relate. We will describe the specific terms of the debt securities and the extent, if any, to which the general provisions summarized below apply to any series of debt securities in the prospectus supplement and/or other offering material that we authorized to be delivered. As used in this section, the terms “we,” “us,” “our,” “Advanced Energy” and the “company” refer to Advanced Energy Industries, Inc., a Delaware corporation, and not any of its subsidiaries, unless the context requires.

The debt securities will represent unsecured and unsubordinated general obligations, unless otherwise provided in the prospectus supplement. Senior debt securities will be issued under an indenture between us and a trustee named in the prospectus supplement, a form of which is filed as an exhibit to the registration statement of which this prospectus is a part. The indenture relating to the senior debt securities, as amended or otherwise supplemented by any supplemental indentures, is referred to in this prospectus as the indenture.

The following summaries of the material provisions of the indenture and the debt securities do not purport to be complete and are subject to, and are qualified in their entirety by reference to, all of the provisions of the indenture and the debt securities, including the definitions therein. Wherever particular articles, sections or defined terms of an indenture are referred to, it is intended that those articles, sections or defined terms will be incorporated herein by reference, and the statement in connection with which reference is made is qualified in its entirety by the article, section or defined term in the indenture.

General

The indenture does not limit the amount of debt securities that may be issued under the indenture, and the indenture does not limit the amount of other unsecured debt or securities that we may issue. The debt securities may be issued in one or more series with the same or various maturities and may be sold at par, a premium or an original issue discount. Some of the debt securities may be issued under the indenture as original issue discount securities to be sold at a substantial discount below their principal amount. Federal income tax and other considerations applicable to any original issue discount securities will be described in the related prospectus supplement and/or other offering material. We have the right to “reopen” a previous issue of a series of debt by issuing additional debt securities of such series.

Our right to participate as a stockholder in any distribution of assets of any subsidiary upon its liquidation or reorganization or otherwise and the ability of a holder of debt securities to benefit as our creditor from any distribution are subject to prior claims of creditors of the subsidiary. The debt securities will also effectively rank junior in right of payment to any of our secured debt.

The applicable prospectus supplement and/or other offering material relating to the particular series of debt securities offered thereby will describe the following terms of the offered debt securities:

- the title of the offered debt securities;
- any limit upon the aggregate principal amount of the offered debt securities;
- the date or dates (or the manner of calculating the date or dates) on which the principal of the offered debt securities is payable;
- the rate or rates (or the manner of calculating the rate or rates) at which the offered debt securities shall bear interest, if any, the date or dates from which such interest shall accrue, the interest payment dates on which such interest shall be payable and the regular record date for the interest payable on any interest payment date;
- the place or places where the principal of and premium, if any, and interest, if any, on the offered debt securities will be payable;
- the period or periods within which, the price or prices at which, the currency in which, and the terms and conditions upon which the offered debt securities may be redeemed, in whole or in part, at our option;
- our obligation, if any, to redeem or purchase the offered debt securities pursuant to any sinking fund or analogous provisions or at the option of a holder thereof and the period or periods within which, the price or prices in the currency at which, the currency in which, and the terms and conditions upon which the offered debt securities shall be redeemed or purchased, in whole or in part, pursuant to such obligation;
- the denominations in which the offered debt securities shall be issuable if other than denominations of \$1,000 and any integral multiple thereof;

- if other than the currency of the United States of America, the currencies in which payments of interest or principal of (and premium, if any, with respect to) the offered debt securities are to be made;
- if the interest on or principal of (or premium, if any, with respect to) the offered debt securities are to be payable, at our election or at the election of a holder thereof or otherwise, in a currency other than that in which such debt securities are payable, the period or periods within which, and the other terms and conditions upon which, such election may be made, and the time and manner of determining the exchange rate between the currency in such debt securities are denominated or stated to be payable and the currency in which such debt securities or any of them are to be so payable;
- whether the amount of payments of interest on or principal of (or premium, if any, with respect to) the offered debt securities of such series may be determined with reference to an index, formula or other method (which index, formula or method or method may be based, without limitation, on one or more currencies, commodities, equity indices or other indices), and, if so, the terms and conditions upon which and the manner in which such amounts shall be determined and paid or payable;
- the extent to which any offered debt securities will be issuable in permanent global form, the manner in which any payments on a permanent global debt security will be made, and the appointment of any depository relating thereto;
- whether such debt securities will be subject to discharge or defeasance described in this prospectus with respect to the offered debt securities;
- any deletions from, modifications of or additions to the events of default or covenants with respect to the offered debt securities of such series, whether or not such events of default or covenants are consistent with the events of default or covenants set forth herein;
- the terms of any repurchase or remarketing rights;
- if any of the offered debt securities are to be issuable upon the exercise of warrants, and, if so, the time, manner and place for such debt securities to be authenticated and delivered;
- if applicable, the provisions relating to conversion or exchange of any debt securities of the series and the terms and conditions upon which such debt securities will be so convertible or exchangeable, including the conversion or exchange price, as applicable, or how it will be calculated and may be adjusted, any mandatory or optional (at the our option or the holder's option) conversion or exchange features, the applicable conversion or exchange period and the manner of settlement for any conversion or exchange, which may, without limitation, include the payment of cash as well as the delivery of securities; and
- any additional, eliminated, changed, or other terms of the series (which terms shall not be inconsistent with the provisions of the related indenture).

Payments

Unless otherwise indicated in any prospectus supplement and/or other offering material, principal of and premium, if any, and interest, if any, on the offered debt securities will be payable, and transfers of the offered debt securities will be registrable, at the corporate trust office of the trustee. Alternatively, at our option, payment of interest may be made by check mailed to the address of the person entitled thereto as it appears in the debt security register or by wire transfer to an account in such currency designated by such person.

Denominations, Registration and Transfer

Unless otherwise indicated in any prospectus supplement and/or other offering material, the offered debt securities will be issued only in fully registered form without coupons in denominations of \$1,000 or any integral multiple of \$1,000, or the equivalent in foreign currency. Except as provided in the indenture, pursuant to a Board resolution, an officer's certificate or a supplemental indenture, no service charge will be made for any registration of transfer or exchange of offered debt securities or conversion or exchange of less than the entire principal amount of a debt security, but we may require payment of a sum sufficient to cover any tax or other governmental charge payable in connection with any transfer or exchange.

If the purchase price of any of the offered debt securities is denominated in a foreign currency or currencies or if the principal of, premium, if any, or interest, if any, on any series of offered debt securities is payable in a foreign currency or currencies, the restrictions, elections, tax consequences, specific terms and other information with respect to the issue of offered debt securities and the foreign currency or currencies will be described in the related prospectus supplement and/or other offering material.

We will not be required to issue, register the transfer of, or exchange debt securities of any series during the period from 15 days prior to the mailing of a notice of redemption of debt securities of that series to the date the notice is mailed. We will also not be required to register the transfer of or exchange any debt security so selected for redemption, except the unredeemed portion of any debt security being redeemed in part.

Conversion and Exchange

The terms, if any, on which debt securities of any series are convertible into or exchangeable for common stock or preferred stock, property or cash, or a combination of any of the foregoing, will be set forth in the related prospectus supplement and/or other offering material. Terms may include provisions for conversion or exchange that is either mandatory, at the option of the holder, or at our option. The number of shares of common stock or preferred stock to be received by the holders of the debt securities will be calculated in the manner, according to the factors and at the time as described in the related prospectus supplement and/or other offering material.

Merger

The indenture provides that we may, without the consent of the holders of debt securities, consolidate with, or sell, lease or convey all or substantially all of our assets to, or merge into any other corporation, provided that:

- immediately after giving effect to the transaction, no default under the indenture has occurred and is continuing;
- the successor corporation is a corporation organized and existing under the laws of the United States or a state thereof; and
- the successor corporation expressly assumes the due and punctual payment of the principal of and premium, if any, and interest on all debt securities, according to their tenor, and the due and punctual performance and observance of all the covenants and conditions of the indenture to be performed by us.

In addition, we must provide to the trustee an opinion of legal counsel that any such transaction and any assumption by a successor corporation complies with the applicable provisions of the indenture and that we have complied with all conditions precedent provided in the indenture relating to such transaction.

Other than the covenants described above, or as set forth in any accompanying prospectus supplement and/or other offering material, the indenture does not contain any covenants or other provisions designed to afford holders of the debt securities protection in the event of a takeover, recapitalization or a highly leveraged transaction involving us.

Modification of the Indenture

With the consent of the holders of more than 50% in aggregate principal amount of any series of debt securities then outstanding under the indenture, waivers, modifications and alterations of the terms of the indenture may be made which affect the rights of the holders of the series of debt securities. However, no modification or alteration may, without the consent of all holders of any series of debt securities then outstanding affected thereby:

- extend the fixed maturity of any debt security of that series;
- reduce the rate or extend the time of payment of interest thereon;
- reduce the principal amount thereof or any premium thereon;
- make the principal thereof or interest or premium thereon payable in any coin or currency other than that provided in the debt securities; or
- reduce the percentage of debt securities of that series, the holders of which are required to consent to:
 - any supplemental indenture;
 - rescind and annul a declaration that the debt securities of that series are due and payable as a result of the occurrence of an event of default;
 - waive any past event of default under the indenture and its consequences; and
 - waive compliance with other specified provisions of the indenture.

In addition, as described in the description of “Events of Default” set forth below, holders of more than 50% in aggregate principal amount of the debt securities of any series then outstanding may waive past events of default in specified circumstances and may direct the trustee in enforcement of remedies.

We and the trustee may, without the consent of any holders, modify and supplement the indenture:

- to evidence the succession of another corporation to us under the indenture, or successive successions, and the assumption by the successor corporation of the covenants, agreements and obligations of us pursuant to the indenture;
- to add to the covenants applicable to us such further covenants, restrictions, conditions or provisions as our Board and the trustee shall consider to be for the protection of the holders of debt securities of any or all series, and to make the occurrence, or the occurrence and continuance, of a default in any of such additional covenants, restrictions, conditions or provisions a

default or event of default with respect to such series permitting the enforcement of all or any of the several remedies provided in the indenture; provided, however, that in respect of any such additional covenant, restriction or condition, such supplemental indenture may provide for a particular period of grace after default (which period may be shorter or longer than that allowed in the case of other defaults) or may provide for an immediate enforcement upon such default or may limit the remedies available to the trustee upon such default;

- to cure any ambiguity or to correct or supplement any provision contained in the indenture or in any supplemental indenture which may be defective or inconsistent with any other provision contained in the indenture or in any supplemental indenture;
- to convey, transfer, assign, mortgage or pledge any property to or with the trustee;
- to make other provisions in regard to matters or questions arising under the indenture as shall not adversely affect the interests of the holders and to make any change that would provide additional rights or benefits to the holders of any or all series or that does not adversely affect the legal rights under the indenture of any such holder;
- to evidence and provide for the acceptance of appointment by another corporation as a successor trustee under the indenture with respect to one or more series of debt securities and to add to or change any of the provisions of the indenture as shall be necessary to provide for or facilitate the administration of the trusts under the indenture by more than one trustee;
- to modify, amend or supplement the indenture in such a manner as to permit the qualification of any supplemental indenture under the Trust Indenture Act of 1939 as then in effect, except that nothing contained in the indenture shall permit or authorize the inclusion in any supplemental indenture of the provisions referred to in Section 316(a)(2) of the Trust Indenture Act of 1939;
- to provide for the issuance under the indenture of debt securities in coupon form (including debt securities registrable as to principal only) and to provide for exchangeability of such debt securities with debt securities of the same series issued hereunder in fully registered form and to make all appropriate changes for such purpose;
- to change or eliminate any of the provisions of the indenture, provided, however, that any such change or elimination shall become effective only when there is no debt security outstanding of any series created prior to the execution of such supplemental indenture which is entitled to the benefit of such provision; and
- to establish any additional form of debt security and to provide for the issuance of any additional series of debt securities.

Covenant Defeasance and Satisfaction and Discharge of a Series

Covenant Defeasance of any Series

If we deposit with the trustee, in trust, at or before maturity or redemption:

- lawful money;
- direct obligations of the government which issued the currency in which the debt securities of a series are denominated, or obligations of a person controlled or supervised by and acting as an agency or instrumentality of such government and which obligations are guaranteed by such government (which direct or guaranteed obligations are full faith and credit obligations of such government, are denominated in the currency in which the debt securities of such are denominated and which are not callable or redeemable at the option of the issuer thereof) in an amount and with a maturity so that the proceeds therefrom will provide funds; or
- a combination thereof,

in each case in an amount sufficient, after payment of all federal, state and local taxes in respect thereof payable by the trustee, in the opinion of a nationally-recognized firm of independent public accountants expressed in a written certification thereof delivered to the trustee, to pay when due the principal, premium, if any, and interest to maturity or to the redemption date, as the case may be, with respect to any series of debt securities then outstanding, and any mandatory sinking fund payments or similar payments or payment pursuant to any call for redemption applicable to such debt securities of such series on the day on which such payments are due and payable in accordance with the terms of the indenture and such debt securities, then the provisions of the indenture would no longer be effective as to the debt securities to which such deposit relates, including the restrictive covenants described in this prospectus or any prospectus supplement relating to such debt securities, except as to:

- our obligation to duly and punctually pay the principal of and premium, if any, and interest on the series of debt securities if the debt securities are not paid from the money or securities held by the trustee;
- certain of the events of default described under “Events of Default” below; and

- other specified provisions of the indenture including, among others, those relating to registration, transfer and exchange, lost or stolen securities, maintenance of place of payment and, to the extent applicable to the series, the redemption and sinking fund provisions of the indenture.

Defeasance of debt securities of any series is subject to the satisfaction of specified conditions, including, among others, the absence of an event of default at the date of the deposit and the perfection of the holders' security interest in the deposit.

Satisfaction and Discharge of any Series

Upon the deposit of money or securities contemplated above and the satisfaction of specified conditions, the provisions of the indenture (excluding the exceptions discussed above under the heading "Covenant Defeasance of any Series") would no longer be effective as to the related debt securities, we may cease to comply with our obligation to pay duly and punctually the principal of and premium, if any, and interest on a particular series of debt securities, the events of default in the indenture no longer would be effective as to such debt securities and thereafter the holders of the series of debt securities will be entitled only to payment out of the money or securities deposited with the trustee.

The specified conditions include, among others, except in limited circumstances involving a deposit made within one year of maturity or redemption:

- the absence of an event of default at the date of deposit or on the 91st day thereafter;
- our delivery to the trustee of an opinion of nationally-recognized tax counsel, or our receipt or publication of a ruling by the Internal Revenue Service, to the effect that holders of the debt securities of the series will not recognize income, gain or loss for federal income tax purposes as a result of the deposit and discharge, and the holders will be subject to federal income tax on the same amounts and in the same manner and at the same times as would have been the case if the deposit and discharge had not occurred; and
- that we receive an opinion of counsel to the effect that the satisfaction and discharge will not result in the delisting of the debt securities of that series from any nationally-recognized exchange on which they are listed.

Repurchases on the Open Market

The company or any affiliate of the company may at any time or, from time to time, repurchase any debt security in the open market or otherwise. Such debt securities may, at the option of the company or the relevant affiliate of the company, be held, resold or surrendered to the trustee for cancellation.

Events of Default

As to any series of debt securities, an event of default is defined in the indenture as being:

- failure to pay any interest on the debt securities of that series when due, which failure continues for 30 days;
- failure to pay principal or premium, if any, with respect to the debt securities of that series when due;
- failure to pay or satisfy any sinking fund payment or similar obligation with respect to debt securities of that series when due;
- failure to observe or perform any other covenant, warranty or agreement in the indenture or debt securities of that series, other than a covenant, warranty or agreement, a default in whose performance or whose breach is specifically dealt with in the section of the indenture governing events of default, if the failure continues for 90 days after we receive written notice by the trustee or the holders of at least 25% in aggregate principal amount of the debt securities of that series then outstanding;
- specified events of bankruptcy, insolvency, receivership or reorganization; or
- any other event of default provided with respect to debt securities of that series.

Notice and Declaration of Defaults

So long as the debt securities of any series remain outstanding, we will be required to furnish annually to the trustee a certificate of one of our corporate officers stating whether, to such officer's knowledge, we are in default under any of the provisions of the indenture, or else specifying all defaults, and the nature thereof, of which such officer has knowledge. We will also be required to furnish to the trustee copies of specified reports filed by us with the SEC which will be deemed filed with the trustee when we file such reports pursuant to the SEC's Electronic Data Gathering, Analysis and Retrieval (or EDGAR) system.

The indenture provides that the trustee will, within 90 days after the occurrence of a default with respect to any series for which there are debt securities outstanding which is continuing, give to the holders of those debt securities notice of all uncured defaults known to it, including events specified above without grace periods. Except in the case of default in the payment of principal, premium, if any, or interest on any of the debt securities of any series or the payment of any sinking fund installment on the debt securities of any

series, the trustee may withhold notice to the holders if the trustee in good faith determines that withholding notice is in the interest of the holders of the debt securities.

If a specified event of bankruptcy, insolvency, receivership, or reorganization occurs and is continuing, then the principal amount of (or, if the debt securities of that series are original issue discount debt securities, such portion of the principal amount as may be specified in their terms as due and payable upon acceleration) and any accrued and unpaid interest on that series will immediately become due and payable without any declaration or other act on the part of the trustee or any holder. If any other event of default occurs and is continuing, the trustee or the holders of not less than 25% in aggregate principal amount of the outstanding debt securities of any series may declare the debt securities of that series immediately due and payable. In some cases, the holders of a majority in principal amount of the debt securities of any series then outstanding may waive any past default and its consequences, except a default in the payment of principal, premium, if any, or interest, including sinking fund payments.

Actions upon Default

Subject to the provisions of the indenture relating to the duties of the trustee in case an event of default with respect to any series of debt securities occurs and is continuing, the indenture provides that the trustee will be under no obligation to exercise any of its rights or powers under the indenture at the request, order or direction of any of the holders of debt securities outstanding of any series unless the holders have offered to the trustee reasonable indemnity. The right of a holder to institute a proceeding with respect to the indenture is subject to conditions precedent including notice and indemnity to the trustee, but the holder has a right to receipt of principal, premium, if any, and interest on their due dates or to institute suit for the enforcement thereof, subject to specified limitations with respect to defaulted interest.

The holders of a majority in principal amount of the debt securities outstanding of the series in default will have the right to direct the time, method and place for conducting any proceeding for any remedy available to the trustee, or exercising any power or trust conferred on the trustee. Any direction by the holders will be in accordance with law and the provisions of the related indenture, provided that the trustee may decline to follow any such direction if the trustee determines on the advice of counsel that the proceeding may not be lawfully taken or would be materially or unjustly prejudicial to holders not joining in the direction. The trustee will be under no obligation to act in accordance with the direction unless the holders offer the trustee reasonable security or indemnity against costs, expenses and liabilities which may be incurred thereby.

Governing Law

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

Concerning the Trustee

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

The indenture and provisions of the Trust Indenture Act of 1939 that are incorporated by reference in the indenture 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. However, if it acquires any conflicting interest (as defined under the Trust Indenture Act of 1939), it must eliminate such conflict or resign.

Book-Entry, Delivery and Settlement

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. 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 Exchange Act;

- 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.

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 company, the trustee or any of their 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.

Exchange of Global Securities for Certificated Securities

We will issue certificated debt securities to each person that DTC identifies as the beneficial owner of debt securities represented by the global securities upon surrender by DTC of the global securities only if:

- DTC notifies us that it is no longer willing or able to act as a depository for the global securities, and we have not appointed a successor depository within 90 days of that notice;
- An event of default with respect to the debt securities has occurred and is continuing and the depository requests the issuance of the securities in definitive form; or
- We decide not to have the debt securities represented by a global security.

Neither we nor the trustee will be liable for any delay by DTC, its nominee or any direct or indirect participant in identifying the beneficial owners of the related debt securities or for maintaining, supervising or reviewing any records relating to beneficial ownership interests. We and the trustee may conclusively rely on, and will be protected in relying on, instructions from DTC or its nominee, including instructions about the registration and delivery, and the respective principal amounts, of the debt securities to be issued.

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. The company expects that secondary trading in any certificated notes will also be settled in immediately available funds.

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.

DESCRIPTION OF WARRANTS

We may issue warrants for the purchase of debt securities, preferred stock, common stock or other securities. Warrants may be issued independently or together with debt securities, preferred stock 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 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 number of shares and series of preferred stock purchasable upon the exercise of warrants to purchase preferred stock and the price at which such number of shares of such series of preferred 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 will commence and the date on which such right will expire;
- U.S. federal income tax consequences applicable to such warrants;
- the number 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 provisions described in 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 preferred stock, common stock or other securities at such exercise price as will 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 will 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, preferred stock, common stock or other securities, holders of such warrants will not have any of the rights of holders of debt securities, preferred stock, common stock or other securities, as the case may be, purchasable upon such exercise, including the right to receive payments of principal of, premium, if any, or interest, if any, on the debt securities purchasable upon such exercise or to enforce covenants in the indenture, or to receive payments of dividends, if any, on the preferred stock, or common stock purchasable upon such exercise, or to exercise any applicable right to vote.

DESCRIPTION OF THE PURCHASE CONTRACTS AND PURCHASE UNITS

We may issue securities 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 "purchase contracts." The price per share of the securities and the number of shares of the securities may be fixed at the time the

purchase contracts are issued or may be determined by reference to a specific formula set forth in the purchase contracts. The purchase contracts may be issued separately or as part of units consisting of a purchase contract and debt securities, preferred 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 purchase contracts, which we refer to in this prospectus as "purchase units." The purchase contracts may require holders to secure their obligations under the purchase contracts in a specified manner. The purchase contracts also may require us to make periodic payments to the holders of the purchase units or vice versa, and those payments may be unsecured or refunded on some basis.

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

If we issue purchase units where debt obligations of third parties are used as security for your obligations to purchase or sell shares of common stock, preferred stock or other securities, we will include in the prospectus supplement and/or other offering material relating to the offering information about the issuer of the debt securities. Specifically, if the issuer has a class of securities registered under the Exchange Act, and is either eligible to register its securities on Form S-3 under the Securities Act or meets the listing criteria to be listed on a national securities exchange, we will include a brief description of the business of the issuer, the market price of its securities and how you can obtain more information about the issuer. If the issuer does not meet the criteria described in the previous sentence, we will include substantially all of the information that would be required if the issuer were making a public offering of the debt securities.

DESCRIPTION OF UNITS

We may issue units comprised of two or more of the securities described in this prospectus, in any combination, including, without limitation, the purchase units described above. Each unit will be issued so that the holder of the unit is also the holder of each security included in the unit. Thus, the holder of a unit will have the rights and obligations of a holder of each included security. The units or the unit agreement or other agreement, if any, under which a unit is issued may provide that the securities included in the unit may not be held or transferred separately at any time, or at any time before a specified date.

The prospectus supplement relating to a particular issue of units will describe, among other things:

- the material terms of the units and of the securities comprising the units, including whether and under what circumstances those securities may be held or transferred separately;
- any material provisions relating to the issuance, payment, settlement, transfer or exchange of the units or of the securities comprising the units; and
- any material provisions of the governing unit or other agreement that differ from those described above.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly and current reports, proxy statements and other information with the SEC (File No. 000-26966). We also filed a registration statement on Form S-3, including exhibits, under the Securities Act with respect to the securities offered by this prospectus. This prospectus is a part of that registration statement, but does not contain all of the information included in the registration statement or the exhibits to the registration statement. The SEC maintains a website, www.sec.gov, that contains reports, proxy and information statements and other information regarding issuers that file electronically with the SEC. Our SEC filings are also available to the public on our website located at www.advancedenergy.com. However, we are not including the information contained on our website as part of, or incorporating it by reference into, this prospectus.

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 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 December 31, 2022; and
- the description of our common stock contained in our registration statement on Form 8-A, filed on October 12, 1995, including any amendment or reports filed for the purpose of updating such description.

Notwithstanding the foregoing, information furnished under Items 2.02 and 7.01 of any Current Report on Form 8-K, including the related exhibits under Item 9.01, is not incorporated by reference.

You may request a copy of any of these filings, at no cost, by request directed to us at the following address or telephone number:

Advanced Energy Industries, Inc.
1595 Wynkoop Street, Suite 800
Denver, Colorado 80202
970-407-6626
Attention: General Counsel

You should not assume that the information in this prospectus, any prospectus supplement and/or other offering material, as well as the information we file or previously filed with the SEC that we incorporate by reference in this prospectus, any prospectus supplement and/or other offering material, is accurate as of any date other than its respective date. Our business, financial condition, results of operations and prospects may have changed since that date.

SELLING STOCKHOLDERS

We may register shares of common stock covered by this prospectus for re-offers and resales by any selling stockholders to be named in a prospectus supplement. Because we are a well-known seasoned issuer, as defined in Rule 405 of the Securities Act, we may add secondary sales of shares of our common stock by any selling stockholders by filing a prospectus supplement with the SEC. We may register these shares to permit selling stockholders to resell their shares when they deem appropriate. A selling stockholder may resell all, a portion or none of such stockholder's shares at any time and from time to time. Selling stockholders may also sell, transfer or otherwise dispose of some or all of their shares of our common stock in transactions exempt from the registration requirements of the Securities Act. We do not know when or in what amounts the selling stockholders may offer shares for sale 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 stockholders, other than underwriting fees, discounts or commissions, which will be borne by the selling stockholders. We will provide you with a prospectus supplement identifying the selling stockholders, the amount of shares to be registered and sold and any other terms of the shares of common stock being sold by each selling stockholder.

PLAN OF DISTRIBUTION

We may sell our securities, and any selling stockholder may sell shares of our common stock, 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 any selling stockholders to purchasers, including through a specific bidding, auction or other process; or (v) 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, the name or names of any underwriters, dealers, or 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 selling stockholders, 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. Additionally, because selling stockholders may be deemed to be "underwriters" within the meaning of Section 2(11) of the Securities Act, selling stockholders may be subject to the prospectus delivery requirements of the Securities Act.

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 any selling stockholder or by agents designated by us from time to time. Any such agent may be deemed to be an underwriter, as that term is defined in the Securities Act, 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 prospectus supplement and/or other offering material, the obligations of the underwriters are subject to certain conditions precedent, and the underwriters will be obligated to purchase all such securities if they purchase any of them. Underwriters may be involved in any at the market offering of securities by or on our behalf.

If a dealer is utilized in the sale of the securities in respect of which this prospectus is delivered, we will sell such securities, and any selling stockholder will sell shares of our common stock 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 cross trades, 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 the securities so offered and sold. In addition, any selling stockholder may sell shares of our common stock in ordinary brokerage transactions or in transactions in which a broker solicits purchases.

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

Any selling stockholders may also resell all or a portion of their shares of our common stock in transactions exempt from the registration requirements of the Securities Act in reliance upon Rule 144 under the Securities Act provided they meet the criteria and conform to the requirements of that rule, Section 4(a)(1) of the Securities Act or other applicable exemptions, regardless of whether the securities are covered by the registration statement of which this prospectus forms a part.

If so indicated in the applicable prospectus supplement and/or other offering material, we or any selling stockholder may authorize agents and underwriters to solicit offers by certain institutions to purchase securities from us or any selling stockholder 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 with us or any selling stockholder to indemnification by us against certain liabilities, including liabilities under the Securities Act, 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 pay all expenses incurred with respect to the registration of the shares of common stock owned by any selling stockholders, other than underwriting fees, discounts or commissions, which will be borne by the selling stockholders.

We or any selling stockholder 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 or any selling stockholder 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 any selling stockholder or borrowed from us, any selling stockholder or others to settle those sales or to close out any related open borrowings of stock, and may use securities received from us or any selling stockholder 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.

Additionally, any selling stockholder may engage in hedging transactions with broker-dealers in connection with distributions of shares or otherwise. In those transactions, broker-dealers may engage in short sales of shares in the course of hedging the positions they assume with such selling stockholder. Any selling stockholder also may sell shares short and redeliver shares to close out such short positions. Any selling stockholder may also enter into option or other transactions with broker-dealers which require the delivery of shares to the broker-dealer. The broker-dealer may then resell or otherwise transfer such shares pursuant to this prospectus. Any selling stockholder also may loan or pledge shares, and the borrower or pledgee may sell or otherwise transfer the shares so loaned or

pledged pursuant to this prospectus. Such borrower or pledgee also may transfer those shares to investors in our securities or the selling stockholder's securities or in connection with the offering of other securities not covered by this prospectus.

Underwriters, broker-dealers or agents may receive compensation in the form of commissions, discounts or concessions from us or any selling stockholder. 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 will be in amounts to be negotiated in connection with transactions involving shares and might be in excess of customary commissions. In effecting sales, broker-dealers engaged by us or any selling stockholder may arrange for other broker-dealers to participate in the resales.

Any securities offered other than common stock will be a new issue and, other than the common stock, which is listed on the Nasdaq Global Select 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 or our subsidiaries or any selling stockholder 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 Exchange Act. 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 Global Select 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.

LEGAL MATTERS

Unless the applicable prospectus supplement indicates otherwise, 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

Ernst & Young LLP, independent registered public accounting firm, has audited our consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2022, and the effectiveness of our internal control over financial reporting as of December 31, 2022, as set forth in their reports, which are incorporated by reference in this prospectus and elsewhere in the registration statement. Our financial statements are incorporated by reference in reliance on Ernst & Young LLP's report, given on their authority as experts in accounting and auditing.

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 14. Other Expenses of Issuance and Distribution.

The following table sets forth the estimated costs and expenses, other than underwriting discounts and commissions, payable by the registrant in connection with the offering of the securities being registered.

	Amount
Securities and Exchange Commission registration fee	\$ *
Printing expenses	**
Legal fees and expenses	**
Accounting fees and expenses	**
Blue sky filing and counsel fees	**
Miscellaneous (including any applicable listing fees, rating agency fees, trustee and transfer agent's fees and expenses)	**
Total	<u>\$ **</u>

* Omitted because the SEC registration fee is being deferred in accordance with Rule 456(b) under the Securities Act and calculated in connection with the offering of securities under this registration statement pursuant to Rule 457(r) under the Securities Act.

** The amount of securities and number of offerings are indeterminable, and the expenses cannot be estimated at this time.

Item 15. Indemnification of Directors and Officers.

Delaware General Corporation Law

As a Delaware corporation, we are subject to the provisions of the General Corporation Law of the State of Delaware (the "Delaware General Corporation Law"). Section 145(a) of the Delaware General Corporation Law provides that a corporation may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation) by reason of the fact that the person is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by the person in connection with such action, suit or proceeding if the person acted in good faith and in a manner the person reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe the person's conduct was unlawful. The termination of any action, suit or proceeding by judgment, order, settlement, conviction or upon a plea of nolo contendere or its equivalent, shall not, of itself, create a presumption that the person did not act in good faith and in a manner which the person reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had reasonable cause to believe that the person's conduct was unlawful.

Section 145(b) of the Delaware General Corporation Law states that a corporation may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action or suit by or in the right of the corporation to procure a judgment in its favor by reason of the fact that the person is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise against expenses (including attorneys' fees) actually and reasonably incurred by the person in connection with the defense or settlement of such action if the person acted in good faith and in a manner the person reasonably believed was in or not opposed to the best interests of the corporation and except that no indemnification shall be made in respect of any claim, issue or matter as to which the person shall have been adjudged to be liable to the corporation unless and only to the extent that the Delaware Court of Chancery or the court in which such action or suit was brought shall determine upon application that, despite the adjudication of liability but in view of all the circumstances of the case, the person is fairly and reasonably entitled to indemnity for such expenses as the Delaware Court of Chancery or such other court shall deem proper.

Section 145(c) of the Delaware General Corporation Law provides that to the extent that a present or former director or officer of a corporation has been successful on the merits or otherwise in defense of any action, suit or proceeding referred to in subsections (a)

and (b) of Section 145, or in defense of any claim, issue or matter therein, such person shall be indemnified against expenses (including attorneys' fees) actually and reasonably incurred by such person in connection therewith.

Section 145(d) of the Delaware General Corporation Law states that any indemnification under subsections (a) and (b) of Section 145 (unless ordered by a court) shall be made by the corporation only as authorized in the specific case upon a determination that indemnification of the present or former director, officer, employee or agent is proper in the circumstances because the person has met the applicable standard of conduct set forth in subsections (a) and (b) of Section 145. Such determination shall be made with respect to a person who is a director or officer at the time of such determination (1) by a majority vote of the directors who are not parties to such action, suit or proceeding, even though less than a quorum, (2) by a committee of such directors designated by majority vote of such directors, even though less than a quorum, (3) if there are no such directors, or if such directors so direct, by independent legal counsel in a written opinion or (4) by the stockholders.

Section 145(f) of the Delaware General Corporation Law states that the indemnification and advancement of expenses provided by, or granted pursuant to, the other subsections of Section 145 shall not be deemed exclusive of any other rights to which those seeking indemnification or advancement of expenses may be entitled under any by-law, agreement, vote of stockholders or disinterested directors or otherwise, both as to action in such person's official capacity and as to action in another capacity while holding such office. A right to indemnification or to advancement of expenses arising under a provision of the certificate of incorporation or a by-law shall not be eliminated or impaired by an amendment to the certificate of incorporation or the by-laws after the occurrence of the act or omission that is the subject of the civil, criminal, administrative or investigative action, suit or proceeding for which indemnification or advancement of expenses is sought, unless the provision in effect at the time of such act or omission explicitly authorizes such elimination or impairment after such action or omission has occurred.

Section 145(g) of the Delaware General Corporation Law provides that a corporation shall have the power to purchase and maintain insurance on behalf of any person who is or was a director, officer, employee or agent of the corporation, or is or was serving at the request of the corporation as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, against any liability asserted against such person and incurred by such person in any such capacity or arising out of such person's status as such, whether or not the corporation would have the power to indemnify such person against such liability under the provisions of Section 145 of the Delaware General Corporation Law.

Section 145(j) of the Delaware General Corporation Law states that the indemnification and advancement of expenses provided by, or granted pursuant to, Section 145 shall, unless otherwise provided when authorized or ratified, continue as to a person who has ceased to be a director, officer, employee or agent and shall inure to the benefit of the heirs, executors and administrators of such a person.

Certificate of Incorporation

Our Certificate of Incorporation provides that no director of Advanced Energy shall be personally liable to the company or its stockholders for monetary damages for any breach of fiduciary duty as a director, except for liability (i) for any breach of the director's duty of loyalty to the company or its stockholders, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law (iii) under Section 174 of the Delaware General Corporation Law, or (iv) for any transaction from which the director derived an improper personal benefit. While the Certificate of Incorporation provides protection from awards for monetary damages for breaches of the duty of care, it does not eliminate the director's duty of care. Accordingly, the Certificate of Incorporation will not affect the availability of equitable remedies such as an injunction based on a director's breach of the duty of care. The provisions of the Certificate of Incorporation described above apply to our officers only if they are also directors acting in their capacity as directors, and does not apply to officers who are not directors.

By-laws

Our By-laws provide for the indemnification of our executive officers and directors to the fullest extent not prohibited by the Delaware General Corporation Law; provided, however, that we may modify the extent of such indemnification by individual contracts with our executive officers and directors; and, provided further, that we shall not be required to indemnify any director or executive officer in connection with any proceeding (or part thereof) initiated by such person unless: (i) such indemnification is expressly required to be made by law; (ii) the proceeding was authorized by our board of directors; (iii) such indemnification is provided by us, in our sole discretion, pursuant to the powers vested in Advanced Energy under the Delaware General Corporation Law; or (iv) such indemnification is required to be made under Article XI, Section 43, Subsection (d) of our By-laws. Expenses for the defense of any action for which indemnification may be available may be advanced by us under certain circumstances.

Indemnification Agreements

We have entered into indemnity agreements with each of the members of our board of directors and each of our executive officers. Pursuant to such indemnity agreements, we are required to indemnify each such person to the fullest extent permitted by the Delaware

General Corporation Law against any liability incurred by such person in any proceeding in which such person is a party because he or she is a director or executive officer of Advanced Energy.

Other Insurance

We maintain a directors' and officers' insurance policy pursuant to which our directors and officers are insured against liability for actions taken in their capacities as directors and officers, including liabilities under the Securities Act.

Item 16. Exhibits.

The following is a list of all exhibits filed as part of this Registration Statement on Form S-3.

EXHIBIT INDEX

<u>Exhibit Number</u>	<u>Document Description</u>
1.1	Form of Equity Underwriting Agreement. ¹
1.2	Form of Debt Underwriting Agreement. ¹
4.1	Amended and Restated Certificate of Incorporation (incorporated by reference to Exhibit 3.1 to Advanced Energy's Quarterly Report on Form 10-Q filed August 5, 2019).
4.2	Second Amended and Restated By-laws (incorporated by reference to Exhibit 3.1 to Advanced Energy's Current Report on Form 8-K dated May 20, 2020).
4.3	Form of Indenture.
4.4	Form of Debt Securities. ¹
4.7	Form of Warrant. ¹
4.8	Form of Warrant Agreement. ¹
4.9	Form of Purchase Contract. ¹
5	Opinion of Foley & Lardner LLP (including consent of counsel).
23.1	Consent of Independent Registered Public Accounting Firm.
23.2	Consent of Foley & Lardner LLP (included in Exhibit 5).
24	Power of Attorney (included on signature page).
25	Form T-1 Statement of Eligibility and Qualification under the Trust Indenture Act of 1939 (with respect to the indenture). ²
107	Filing Fee Exhibit.

¹ If required, to be filed by amendment or as an exhibit to a Current Report on Form 8-K and incorporated herein by reference.

² 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.

Item 17. Undertakings.

The undersigned registrant hereby undertakes:

(a) 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 a 20% 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) of this section 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.

(b) 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.

(c) 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.

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

(i) 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

(ii) Each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5) or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii) or (x) for the purpose of providing the information required by Section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof. *Provided, however,* that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.

(e) 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 the registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered 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 proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act 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 of 1939 in accordance with the rules and regulations prescribed by the Commission under Section 305(b)(2) of the Trust Indenture Act of 1939.

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 Denver, State of Colorado, on February 17, 2023.

ADVANCED ENERGY
INDUSTRIES, INC.

By: /s/ Elizabeth K. Vonne
Elizabeth K. Vonne
*Executive Vice President,
General Counsel, and
Corporate Secretary*

Pursuant to the requirements of the Securities Act of 1933, this Registration Statement has been signed by the following persons in the capacities indicated on February 17, 2023. Each person whose signature appears below constitutes and appoints Stephen D. Kelley and Elizabeth K. Vonne, 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 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/ Stephen D. Kelley</u> Stephen D. Kelley	President, Chief Executive Officer and Director (Principal Executive Officer)
<u>/s/ Paul Oldham</u> Paul Oldham	Executive Vice President and Chief Financial Officer (Principal Financial and Accounting Officer)
<u>/s/ Grant H. Beard</u> Grant H. Beard	Chairman of the Board
<u>/s/ Frederick A. Ball</u> Frederick A. Ball	Director
<u>/s/ Anne DelSanto</u> Anne DelSanto	Director
<u>/s/ Tina M. Donikowski</u> Tina M. Donikowski	Director
<u>/s/ Ronald C. Foster</u> Ronald C. Foster	Director
<u>/s/ Edward C. Grady</u> Edward C. Grady	Director
<u>/s/ Lanesha Minnix</u> Lanesha Minnix	Director

/s/ David W. Reed

Director

David W. Reed

/s/ John A. Roush

Director

John A. Roush

/s/ Brian Shirley

Director

Brian Shirley

ADVANCED ENERGY INDUSTRIES, INC.

to

[*],

Trustee

INDENTURE

Dated as of [], 20__*

Debt Securities

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CROSS REFERENCE SHEET

Between

Provisions of Sections 310 through 318(a) inclusive of Trust Indenture Act of 1939 and the Indenture dated as of [*], 20 __, between Advanced Energy Industries, Inc. and [*], a [*], as trustee.

Section of Act	Section of Indenture
310(a)(1) and (2)	8.09
310(a)(3) and (4)	*
310(b)	8.08 and 8.10
310(c)	*
311(a)	8.13
311(b)	8.13
311(c)	*
312(a)	6.01 and 6.02(a)
312(b)	6.02(b)
312(c)	6.02(c)
313(a)(1), (2), (3), (4), (6) and (7)	6.04(a)
313(a)(5)	*
313(b)(1)	*
313(b)(2)	6.04
313(c)	6.04
313(d)	6.04
314(a)(1)	6.03
314(a)(2)	6.03
314(a)(3)	6.03
314(b)	*
314(c)(1)	15.05
314(c)(2)	15.05
314(c)(3)	*
314(d)	*
314(e)	15.05
314(f)	*
315(a), (c) and (d)	8.01
315(b)	7.08
315(e)	7.09
316(a)(1)	7.07
316(a)(2)	*
316(a) last para.	9.04
316(b)	7.10
317(a)	7.02
317(b)	5.04
318(a)	15.07

* Not Applicable.

This cross reference sheet shall not, for any purpose, be considered part of the Indenture.

THIS INDENTURE, dated as of [*], 20 ____, between Advanced Energy Industries, Inc., a Delaware corporation (the “Company”), and [*], a [*], as trustee (the “Trustee”).

RECITALS OF THE COMPANY

The Company has duly authorized the execution and delivery of this Indenture to provide for the issue from time to time of its unsecured debentures, notes, bonds or other evidences of indebtedness to be issued in one or more series as in this Indenture provided, up to such principal amount or amounts as may from time to time be authorized in or pursuant to one or more resolutions of the Board of Directors.

All things necessary to make this Indenture a valid and binding agreement of the Company, in accordance with its terms, have been done.

NOW, THEREFORE, THIS INDENTURE WITNESSETH:

For and in consideration of the premises and the purchase or acceptance of the Debt Securities by the Holders thereof, it is mutually covenanted and agreed, for the equal and proportionate benefit of the respective Holders from time to time of the Debt Securities or of any series thereof as follows:

ARTICLE 1. DEFINITIONS

SECTION 1.01. Definitions. The terms defined in this Section 1.01 (except as herein otherwise expressly provided or unless the context otherwise requires) for all purposes of this Indenture and of any indenture supplemental hereto shall have the respective meanings specified in this Section 1.01. All other terms used in this Indenture which are defined in the Trust Indenture Act of 1939 or which are by reference therein defined in the Securities Act of 1933, as amended, shall have (except as herein otherwise expressly provided or unless the context otherwise requires) the meanings assigned to such terms in said Trust Indenture Act of 1939 and in said Securities Act as in force at the date of the execution of this Indenture. All accounting terms not otherwise defined herein have the meanings assigned to them in accordance with generally accepted accounting principles and, except as otherwise herein expressly provided, the term “generally accepted accounting principles” with respect to any computation required or permitted hereunder shall mean such accounting principles as are generally accepted in the United States for domestic companies at the date of such computation. All references to such terms herein shall be both to the singular or the plural, as the context so requires. Unless the context otherwise requires, any reference to an “Article” or a “Section” refers to an Article or Section, as the case may be, of this Indenture. The words “herein,” “hereof” and “hereunder” and other words of similar import refer to this Indenture as a whole and not to any particular Article, Section or other subdivision. The words “including,” “includes” and “include” shall be deemed to be followed by the words “without limitation.”

Affiliate:

The term “Affiliate”, when used with respect to any specified Person, means any other Person directly or indirectly controlling or controlled by or under direct or indirect common

control with such specified Person. For the purposes of this definition, “control” when used with respect to any specified Person means the power to direct the management and policies of such Person, directly or indirectly, whether through the ownership of voting securities, by contract or otherwise; and the terms “controlling” and “controlled” have meanings correlative to the foregoing.

Authenticating Agent:

The term “Authenticating Agent” means the agent of the Trustee, if any, which at the time shall be appointed and acting pursuant to Section 8.14.

Board of Directors:

The term “Board of Directors” means the Board of Directors of the Company or any authorized committee of such Board designated by the Board of Directors or the by-laws or the certificate of incorporation of the Company to act for such Board for purposes of this Indenture.

Board Resolution:

The term “Board Resolution” means a copy of a resolution certified by a Vice President, the Secretary or an Assistant Secretary of the Company to have been duly adopted by the Board of Directors and to be in full force and effect on the date of such certification, and delivered to the Trustee.

Business Day:

The term “Business Day”, when used with respect to any Place of Payment or any other particular location, means each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions or trust companies in that Place of Payment are authorized or obligated by law, regulation or executive order to close.

Commission:

The term “Commission” means the U.S. Securities and Exchange Commission.

Company:

“Company” means the party named as the “Company” in the first paragraph of this Indenture until a successor replaces it pursuant to the applicable provisions of this Indenture and, thereafter, shall mean such successor. The forgoing sentence shall likewise apply to any subsequent such successor or successors.

Company Request and Company Order:

The terms “Company Request” and “Company Order” mean, respectively, a written request or order signed in the name of the Company by its Chairman of the Board, Vice Chairman of the Board, Chief Executive Officer, President, Chief Operating Officer, Chief

Financial Officer or a Vice President, and by its Treasurer, Secretary, Assistant Secretary or Assistant Treasurer, and delivered to the Trustee.

Conversion Date:

The term “Conversion Date” has the meaning set forth in Section 3.11:

Corporate Trust Office:

The term “Corporate Trust Office” means the office of the Trustee at which, at any particular time, its corporate trust business shall principally be administered, which office at the date hereof is located at [*], Attn: [*], [*], or such other address as the Trustee may designate from time to time by notice to the Company, or the principal corporate trust office of any successor Trustee (or such other address as such successor Trustee may designate from time to time by notice to the Company).

Currency Determination Agent:

The term “Currency Determination Agent” means the financial institution, if any, from time to time selected by the Company for purposes of Section 3.11.

Debt Security or Debt Securities:

The terms “Debt Security” or “Debt Securities” means any unsecured notes, debentures or other indebtedness of any series, as the case may be, issued by the Company from time to time, and authenticated and delivered under this Indenture.

Debt Security Register:

The term “Debt Security Register” has the meaning set forth in Section 3.06.

Debt Security Registrar:

The term “Debt Security Registrar” has the meaning set forth in Section 3.06.

Depository:

The term “Depository” means, unless otherwise specified by the Company pursuant to Section 3.01, with respect to Debt Securities of any series issuable or issued as a Global Debt Security, The Depository Trust Company, New York, New York, or any successor thereto registered as a clearing agency pursuant to the provisions of Section 17A of the Securities Exchange Act of 1934, as amended, or other applicable statute or regulation.

Dollar:

The term “Dollar” means the coin or currency of the United States of America which as of the time of payment is legal tender for the payment of public and private debts.

Dollar Equivalent of the Foreign Currency:

The term “Dollar Equivalent of the Foreign Currency” shall have the meaning set forth in Section 3.11.

Event of Default:

The term “Event of Default” has the meaning specified in Section 7.01.

Foreign Currency:

The term “Foreign Currency” means a currency issued by the government of any country other than the United States of America.

Global Debt Security:

The term “Global Debt Security” means a Debt Security issued in global form pursuant to Section 2.04 hereof to evidence all or part of a series of Debt Securities.

Government Obligations:

The term “Government Obligations” means securities which are (i) direct obligations of the government which issued the currency in which the Debt Securities of a series are denominated or (ii) obligations of a person controlled or supervised by and acting as an agency or instrumentality of the government which issued the currency in which the Debt Securities of such series are denominated, the payment of which obligations is unconditionally guaranteed by such government, and which, in either case, are full faith and credit obligations of such government, are denominated in the currency in which the Debt Securities of such series are denominated and which are not callable or redeemable at the option of the issuer thereof.

Holder:

The term “Holder” means any Person in whose name a Debt Security of any series is registered in the Debt Security Register applicable to Debt Securities of such series.

Indenture:

The term “Indenture” means this instrument as originally executed and delivered or, if amended or supplemented as herein provided pursuant to the applicable provisions hereof, as so amended or supplemented.

Indexed Debt Security:

The term “Indexed Debt Security” means a Debt Security the terms of which provide that the principal amount thereof payable at Stated Maturity may be more or less than the principal face amount thereof at original issuance.

Interest:

The term “interest”, when used with respect to an Original Issue Discount Debt Security which by its terms bears interest only after maturity, means interest payable after maturity.

Interest Payment Date:

The term “Interest Payment Date”, when used with respect to any series of Debt Securities, means the Stated Maturity of an installment of interest on such Debt Securities.

Market Exchange Rate:

The term “Market Exchange Rate” shall have the meaning set forth in Section 3.11.

Officer’s Certificate:

The term “Officer’s Certificate”, when used with respect to the Company, means a certificate signed by its Chairman of the Board, Vice Chairman of the Board, Chief Executive Officer, President, Chief Operating Officer, Chief Financial Officer or a Vice President and by its Treasurer, Secretary, Assistant Secretary or Assistant Treasurer and delivered to the Trustee. Each such certificate shall include the statements provided for in Section 15.05 to the extent required by the provisions of such Section.

Opinion of Counsel:

The term “Opinion of Counsel” means an opinion in writing signed by legal counsel who may be an employee of or counsel to the Company and such opinion shall be reasonably acceptable to the Trustee. Each such opinion shall include the statements provided for in Sections 2.02, 3.04 and 15.05 to the extent required by the provisions of such Sections.

Original Issue Discount Debt Security:

The term “Original Issue Discount Debt Security” means any Debt Security which provides for an amount less than the principal amount thereof to be due and payable upon a declaration of acceleration of the maturity thereof pursuant to Section 7.01.

Outstanding:

The term “Outstanding”, when used with respect to Debt Securities or Debt Securities of any series, means, as of the date of determination, all such Debt Securities theretofore authenticated and delivered under this Indenture, except:

- (i) such Debt Securities theretofore cancelled by the Trustee or delivered to the Trustee for cancellation;
- (ii) such Debt Securities for whose payment or redemption money in the necessary amount and in the specified currency has been theretofore deposited with the Trustee or any paying agent (other than the Company) in trust or set aside and segregated in trust by the

Company (if the Company shall act as its own paying agent) for the Holders of such Debt Securities, provided, however, that if such Debt Securities are to be redeemed, notice of such redemption has been duly given pursuant to this Indenture or provision therefor satisfactory to the Trustee has been made;

(iii) such Debt Securities in exchange for or in lieu of which other such Debt Securities have been authenticated and delivered pursuant to this Indenture, or such Debt Securities which have been paid, pursuant to this Indenture, unless proof satisfactory to the Trustee is presented that any such Debt Securities are held by Persons in whose hands any of such Debt Securities are a legal, valid and binding obligation of the Company, and

(iv) such Debt Securities the indebtedness in respect to which has been discharged in accordance with Section 13.01.

provided, however, that in determining whether the Holders of the requisite principal amount of such Outstanding Debt Securities have given any request, demand, authorization, direction, notice, consent or waiver hereunder, such Debt Securities owned by the Company or any other obligor upon such Debt Securities or any Affiliate of the Company or such other obligor (except in the case in which the Company or such other obligor or Affiliate owns all Debt Securities Outstanding under the Indenture, or all Outstanding Debt Securities of each such series, as the case may be, without regard to this proviso) shall be disregarded and deemed not to be Outstanding, except that, in determining whether the Trustee shall be protected in relying upon any such request, demand, authorization, direction, notice, consent or waiver, only such Debt Securities which a Responsible Officer of the Trustee actually knows to be so owned shall be so disregarded. Such Debt Securities so owned which have been pledged in good faith may be regarded as Outstanding if the pledgee establishes to the satisfaction of the Trustee the pledgee's right so to act with respect to such Debt Securities and that the pledgee is not the Company or any other such obligor upon such Debt Securities or any Affiliate of the Company or such other obligor. In case of a dispute as to such right, the decision of the Trustee upon the advice of counsel shall be full protection to the Trustee. Upon request of the Trustee, the Company shall furnish to the Trustee promptly an Officer's Certificate listing and identifying all such Debt Securities, if any, known by the Company to be owned or held by or for the account of any of the above described Persons; and, subject to the provisions of Section 8.01, the Trustee shall be entitled to accept such Officer's Certificate as conclusive evidence of the facts therein set forth and of the fact that all such Debt Securities not listed therein are Outstanding for the purpose of any such determination.

Person:

The term "Person" means any individual, corporation, partnership, joint venture, association, joint-stock company, limited liability company, trust, unincorporated organization or government or any agency or political subdivision thereof.

Place of Payment:

The term “Place of Payment”, when used with respect to the Debt Securities of any series, means the place or places where the principal of (premium, if any) and interest on the Debt Securities of that series are payable as specified in accordance with Section 3.01.

Predecessor Debt Security:

The term “Predecessor Debt Security” of any particular Debt Security means every previous Debt Security evidencing all or a portion of the same debt as that evidenced by such particular Debt Security, and for the purposes of this definition, any Debt Security authenticated and delivered under Section 3.07 in lieu of a mutilated, lost, destroyed or stolen Debt Security shall be deemed to evidence the same debt as the mutilated, lost, destroyed or stolen Debt Security.

Redemption Date:

The term “Redemption Date”, when used with respect to any Debt Security to be redeemed, means the date fixed for such redemption by or pursuant to this Indenture.

Redemption Price:

The term “Redemption Price”, when used with respect to any Debt Security to be redeemed, means the price specified in such Debt Security at which it is to be redeemed pursuant to this Indenture.

Regular Record Date:

The term “Regular Record Date” for the interest payable on any Debt Security on any Interest Payment Date means the date specified in such Debt Security as the “Regular Record Date” as contemplated by Section 3.01.

Responsible Officer:

The term “Responsible Officer”, when used with respect to the Trustee, means any officer of the Trustee assigned to the Corporate Trust Administration unit (or any successor division or unit) of the Trustee located at the Corporate Trust Office of the Trustee, who shall have direct responsibility for the administration of this Indenture and, shall also include any other officer of the Trustee to whom any corporate trust matter is referred because of such officer’s knowledge of and familiarity with the particular subject.

The term “Responsible Officer”, when used with respect to the Company, means the Chairman of the Board, Vice Chairman of the Board, Chief Executive Officer, President, Chief Operating Officer, Chief Financial Officer, Treasurer or Secretary, or any Vice President, Assistant Secretary or Assistant Treasurer, in each case, of the Company.

Special Record Date:

The term “Special Record Date” for the payment of any Defaulted Interest (as defined in Section 3.08) means a date fixed by the Trustee pursuant to Section 3.08.

Stated Maturity:

The term “Stated Maturity” when used with respect to any Debt Security or any installment of principal thereof or of interest thereon, means the date specified in such Debt Security as the fixed date on which the principal of such Debt Security, or such installment of interest, is due and payable.

Subsidiary:

The term “Subsidiary” means any Person of which the Company, or the Company and one or more Subsidiaries, or any one or more Subsidiaries, directly or indirectly own more than 50% of the Voting Stock.

Trustee:

“Trustee” means the party named as the “Trustee” in the first paragraph of this Indenture until a successor replaces it pursuant to the applicable provisions of this Indenture and, thereafter, shall mean such successor. The foregoing sentence shall likewise apply to any subsequent such successor or successors.

Trust Indenture Act of 1939:

The term “Trust Indenture Act of 1939” means the Trust Indenture Act of 1939, as amended, as in force at the date as of which this Indenture was executed; *provided, however*, that in the event the Trust Indenture Act of 1939 is amended after such date, “Trust Indenture Act of 1939” means to the extent required by any such amendment, the Trust Indenture Act of 1939 as so amended.

Valuation Date:

The term “Valuation Date” shall have the meaning set forth in Section 3.11.

Voting Stock:

The term “Voting Stock” means outstanding shares of capital stock or similar equity interests having under ordinary circumstances voting power for the election of directors, managers or the substantial equivalent thereof whether at all times or only so long as no senior class of stock or similar equity interest has such voting power by reason of the happening of any contingency.

ARTICLE 2.
DEBT SECURITY FORMS.

SECTION 2.01. *Forms Generally.* The Debt Securities of each series and the certificates of authentication thereon shall have such appropriate insertions, omissions, substitutions and other variations as are required or permitted by this Indenture (the provisions of which shall be appropriate to reflect the terms of each series of Debt Securities, including the currency or denomination, which may be Dollars or Foreign Currency), and may have such letters, numbers or other marks of identification and such legends or endorsements placed thereon, as may be required to comply with the rules of any securities exchange, or as may, consistently herewith, be determined by the officers executing such Debt Securities, as evidenced by their signing of such Debt Securities. Any portion of the text of any Debt Security may be set forth on the reverse thereof, with an appropriate reference thereto on the face of the Debt Security.

The definitive Debt Securities shall be printed, lithographed or engraved or produced by any combination of these methods or may be produced in any other manner, all as determined by the officers executing such Debt Securities, as evidenced by their signing of such Debt Securities.

SECTION 2.02. *Forms of Debt Securities.* The Debt Securities of each series shall be in such form or forms (including global form) as shall be established by or pursuant to a Board Resolution.

Prior to the delivery of a Debt Security of any series in any such form to the Trustee for the Debt Securities of such series for authentication, the Company shall deliver to the Trustee the following:

- (a) The Board Resolution by or pursuant to which such form of Debt Security has been approved;
- (b) An Officer's Certificate dated the date such Certificate is delivered to the Trustee stating that all conditions precedent provided for in this Indenture relating to the authentication and delivery of Debt Securities in such form have been complied with;
- (c) An Opinion of Counsel stating that Debt Securities in such form, together with any coupons appertaining thereto, when (i) completed by appropriate insertions and executed and delivered by the Company to the Trustee for authentication in accordance with this Indenture, (ii) authenticated and delivered by such Trustee in accordance with this Indenture within the authorization as to aggregate principal amount established from time to time by the Board of Directors, and (iii) sold in the manner specified in such Opinion of Counsel, will be the legal, valid and binding obligations of the Company, subject to applicable bankruptcy, reorganization, insolvency and other similar laws generally affecting creditors' rights, to general equitable principles and to such other qualifications as such counsel shall conclude do not materially affect the rights of Holders of such Debt Securities; and
- (d) A Company Order requesting the authentication and delivery of the Debt Securities.

The definitive Debt Securities and coupons, if any, shall be printed, lithographed or engraved or produced by any combination of these methods or may be produced in any other manner, all as determined by the officers executing such Debt Securities or coupons, as evidenced by their execution thereof.

SECTION 2.03. *Form of Trustee's Certificate of Authentication.* The following is the form of the Certificate of Authentication of the Trustee to be endorsed on the face of all Debt Securities substantially as follows:

This is one of the Debt Securities of the series designated herein issued under the within-mentioned Indenture.

Dated: _____

[*],
as Trustee

By: _____,
Authorized Signatory

SECTION 2.04. *Debt Securities in Global Form.* (a) If the Company shall establish pursuant to Section 3.01 that the Debt Securities of a particular series are to be issued in whole or in part in the form of one or more Global Debt Securities, then the Company shall execute and the Trustee or its agent shall, in accordance with Section 3.04 and the Company Order delivered to the Trustee or its agent thereunder, authenticate and deliver such Global Debt Security or Global Debt Securities, which (i) shall represent, and shall be denominated in an amount equal to the aggregate principal amount of, the Outstanding Debt Securities of such series to be represented by such Global Debt Security or Global Debt Securities, or such portion thereof as the Company shall specify in a Company Order, (ii) shall be registered in the name of the Depository for such Global Debt Security or Global Debt Securities or its nominee, (iii) shall be delivered by the Trustee or its agent to the Depository or pursuant to the Depository's instruction and (iv) shall bear a legend substantially to the following effect: "Unless this certificate is presented by an authorized representative of the Depository to the Company or its agent for registration of transfer, exchange, or payment, and any certificate issued is registered in the name of the nominee of the Depository or in such other name as is requested by an authorized representative of the Depository (and any payment is made to the nominee of the Depository or to such other entity as is requested by an authorized representative of the Depository), ANY TRANSFER, PLEDGE, OR OTHER USE HEREOF FOR VALUE OR OTHERWISE BY OR TO ANY PERSON IS WRONGFUL inasmuch as the registered owner hereof, the nominee of the Depository, has an interest herein."

Holders shall have no rights either under this Indenture with respect to any Global Debt Securities held on their behalf by the Depository or by the custodian of the Global Debt Security, or under such Global Debt Security, and the Depository may be treated by the Company, the Trustee and any agent of the Company or the Trustee as the owner of such Global Debt Security for all purposes whatsoever. Notwithstanding the foregoing, nothing herein shall prevent the Company, the Trustee or any Agent or other agent of the Company or the Trustee from giving effect to any written certification, proxy or other authorization furnished by the Depository or impair, as between the Depository and its Holders, the operation of customary practices of the Depository governing the exercise of the rights of an owner of a beneficial interest in any Global Debt Security.

The Trustee shall have no responsibility or obligation to any Holder, any member of (or participant in) the Depository or any other Person with respect to the accuracy of the records of the Depository (or its nominee), with respect to any ownership interest in a Debt Security, with respect to the delivery by the Depository of any notice (including any notice of redemption) or the payment by the Depository of any amount or delivery by the Depository of any Debt Security under or with respect to the Debt Security or with respect to any other action taken or not taken by the Depository. The Trustee may conclusively rely (and shall be fully protected in relying) upon information furnished by the Depository with respect to its members, participants and any Holders of Debt Securities.

(b) Notwithstanding any other provision of this Section 2.04 or of Section 3.06, and subject to the provisions of paragraph (c) below, unless the terms of a Global Debt Security expressly permit such Global Debt Security to be exchanged in whole or in part for individual certificates representing Debt Securities, a Global Debt Security may be transferred, in whole but not in part and in the manner provided in Section 3.06, only to a nominee of the Depository for such Global Debt Security, or to the Depository, or a successor Depository for such Global Debt Security selected or approved by the Company, or to a nominee of such successor Depository.

(c) (1) If at any time the Depository for a Global Debt Security notifies the Company that it is unwilling or unable to continue as Depository for such Global Debt Security or if at any time the Depository for the Global Debt Securities for such series shall no longer be eligible or in good standing under the Securities Exchange Act of 1934, as amended, or other applicable statute or regulation, the Company shall appoint a successor Depository with respect to such Global Debt Security. If a successor Depository for such Global Debt Security is not appointed by the Company within 90 days after the Company receives notice or becomes aware of such ineligibility, the Company will execute, and the Trustee or its agent, upon receipt of a Company Request for the authentication and delivery of certificates representing Debt Securities of such series in exchange for such Global Debt Security, will authenticate and deliver, certificates representing Debt Securities of such series of like tenor and terms in an aggregate principal amount equal to the principal amount of the Global Debt Security in exchange for such Global Debt Security.

(2) The Company may at any time and in its sole discretion determine that the Debt Securities of any series or portion thereof issued or issuable in the form of one or more Global Debt Securities shall no longer be represented by such Global Debt Security or Global Debt Securities. In such event the Company will execute, and the Trustee, upon receipt of a Company

Request for the authentication and delivery of certificates representing Debt Securities of such series in exchange in whole or in part for such Global Debt Security, will authenticate and deliver certificates representing Debt Securities of such series of like tenor and terms in definitive form in an aggregate principal amount equal to the principal amount of such Global Debt Security or Global Debt Securities representing such series or portion thereof in exchange for such Global Debt Security or Global Debt Securities.

(3) If specified by the Company pursuant to Section 3.01 with respect to Debt Securities issued or issuable in the form of a Global Debt Security, the Depository for such Global Debt Security may surrender such Global Debt Security in exchange in whole or in part for certificates representing Debt Securities of such series of like tenor and terms in definitive form on such terms as are acceptable to the Company and such Depository. Thereupon the Company shall execute, and the Trustee or its agent shall authenticate and deliver, without a service charge, (A) to each Holder specified by the Debt Security Registrar or the Depository a certificate or certificates representing Debt Securities of the same series of like tenor and terms and of any authorized denomination as requested by such person in an aggregate principal amount equal to and in exchange for such Holder's beneficial interest as specified by the Debt Security Registrar or the Depository in the Global Debt Security; and (B) to such Depository a new Global Debt Security of like tenor and terms and in an authorized denomination equal to the difference, if any, between the principal amount of the surrendered Global Debt Security and the aggregate principal amount of certificates representing Debt Securities delivered to Holders thereof.

(4) In any exchange provided for in any of the preceding three paragraphs, the Company will execute and the Trustee or its agent will authenticate and deliver certificates representing Debt Securities in definitive registered form in authorized denominations for Debt Securities of the same series or any integral multiple thereof. Upon the exchange of the entire principal amount of a Global Debt Security for certificates representing Debt Securities, such Global Debt Security shall be cancelled by the Trustee or its agent. Except as provided in the preceding paragraph, certificates representing Debt Securities issued in exchange for a Global Debt Security pursuant to this Section shall be registered in such names and in such authorized denominations for Debt Securities of that series or any integral multiple thereof, as the Debt Security Registrar or Depository shall instruct the Trustee or its agent. The Trustee or the Debt Security Registrar shall deliver at its Corporate Trust Office such certificates representing Debt Securities to the Holders in whose names such Debt Securities are so registered.

ARTICLE 3. THE DEBT SECURITIES.

SECTION 3.01. *Title and Terms.* The aggregate principal amount of Debt Securities which may be authenticated and delivered under this Indenture is unlimited. The Debt Securities may be issued up to the aggregate principal amount of Debt Securities from time to time authorized by or pursuant to a Board Resolution.

The Debt Securities may be issued in one or more series. All Debt Securities of each series issued under this Indenture shall in all respects be equally and ratably entitled to the benefits hereof with respect to such series without preference, priority or distinction on account

of the actual time or times of the authentication and delivery or maturity of the Debt Securities of such series. There shall be established in or pursuant to a Board Resolution, and set forth in an Officer's Certificate to the extent not established in a Board Resolution, or established in one or more indentures supplemental hereto, prior to the issuance of Debt Securities of any series:

(a) the title of the Debt Securities of the series (which shall distinguish the Debt Securities of the series from all other series of Debt Securities);

(b) any limit upon the aggregate principal amount of the Debt Securities of the series which may be authenticated and delivered under this Indenture (except for Debt Securities authenticated and delivered upon registration of transfer of, or in exchange for, or in lieu of, other Debt Securities of that series pursuant to this Article Three, the second paragraph of Section 4.03, or Section 11.04);

(c) the date or dates (or the manner of calculation thereof) on which the principal of the Debt Securities of the series is payable;

(d) the rate or rates (or the manner of calculation thereof) at which the Debt Securities of the series shall bear interest, if any, the date or dates from which such interest shall accrue, the Interest Payment Dates on which such interest shall be payable and the Regular Record Date for the interest payable on any Interest Payment Date;

(e) the Place of Payment;

(f) the period or periods within which, the price or prices at which, the currency or currency units in which, and the terms and conditions upon which Debt Securities of the series may be redeemed, in whole or in part, at the option of the Company;

(g) the obligation, if any, of the Company to redeem or purchase Debt Securities of the series pursuant to any sinking fund or analogous provisions or at the option of a Holder thereof and the period or periods within which, the price or prices in the currency at which, the currency or currency units in which, and the terms and conditions upon which Debt Securities of the series shall be redeemed or purchased, in whole or in part, pursuant to such obligation;

(h) the denominations in which the Debt Securities of such series shall be issuable if other than denominations of \$1,000 and any integral multiple thereof;

(i) if other than Dollars, the currencies in which payments of interest or principal of (and premium, if any, with respect to) the Debt Securities of the series are to be made;

(j) if the interest on or principal of (or premium, if any, with respect to) the Debt Securities of the series are to be payable, at the election of the Company or a Holder thereof or otherwise, in a currency other than that in which such Debt Securities are payable, the period or periods within which, and the other terms and conditions upon which, such election may be made, and the time and manner of determining the exchange rate between the currency in such Debt Securities are denominated or stated to be payable and the currency in which such Debt Securities or any of them are to be so payable;

(k) whether the amount of payments of interest on or principal of (or premium, if any, with respect to) the Debt Securities of such series may be determined with reference to an index, formula or other method (which index, formula or method or method may be based, without limitation, on one or more currencies, commodities, equity indices or other indices), and, if so, the terms and conditions upon which and the manner in which such amounts shall be determined and paid or payable;

(l) the extent to which any Debt Securities will be issuable in permanent global form, the manner in which any payments on a permanent global Debt Security will be made, and the appointment of any Depository relating thereto;

(m) whether any Debt Securities will be subject to discharge or defeasance if different from the provisions set forth in this Indenture;

(n) any deletions from, modifications of or additions to the Events of Default or covenants with respect to the Debt Securities of such series, whether or not such Events of Default or covenants are consistent with the Events of Default or covenants set forth herein;

(o) the terms of any repurchase or remarketing rights;

(p) if any of the Debt Securities of such series are to be issuable upon the exercise of warrants, this shall be so established as well as the time, manner and place for such Debt Securities to be authenticated and delivered;

(q) if applicable, the provisions relating to conversion or exchange of any Debt Securities of the series and the terms and conditions upon which such Debt Securities will be so convertible or exchangeable, including the conversion or exchange price, as applicable, or how it will be calculated and may be adjusted, any mandatory or optional (at the Company's option or the Holder's option) conversion or exchange features, the applicable conversion or exchange period and the manner of settlement for any conversion or exchange, which may, without limitation, include the payment of cash as well as the delivery of securities; and

(r) any additional, eliminated, changed, or other terms of the series (which terms shall not be inconsistent with the provisions of this Indenture).

All Debt Securities of any one series shall be substantially identical except as to denomination and except as may otherwise be provided in or pursuant to such Board Resolution and set forth in such Officer's Certificate or in any such indenture supplemental hereto.

SECTION 3.02. Denominations. The Debt Securities of each series shall be issuable in registered form without coupons in such denominations as shall be specified as contemplated in Section 3.01. In the absence of any specification with respect to the Debt Securities of any series, the Debt Securities of such series shall be issuable in denominations of \$1,000 and any integral multiple thereof, which may be in Dollars or any Foreign Currency.

SECTION 3.03. Payment of Principal and Interest. The principal of, premium, if any, and interest on the Debt Securities shall be payable at the office or agency of the Company designated for that purpose in the Place of Payment, as provided in Section 5.02; provided,

however, that interest may be payable at the option of the Company by check mailed to the address of the Person entitled thereto as such address shall appear on the Debt Security Register on the Regular Record Date for such interest payment or by wire transfer to an account in such currency designated by such Person in writing not later than fifteen days prior to the date of such payment.

SECTION 3.04. *Execution of Debt Securities.* The Debt Securities shall be executed manually or by facsimile in the name and on behalf of the Company by its Chairman of the Board of Directors, its President, one of its Vice Presidents or its Treasurer and by its Secretary or one of its Assistant Secretaries. Only such Debt Securities as shall bear thereon a certificate of authentication substantially in the form hereinbefore recited, manually executed by the Trustee, shall be entitled to the benefits of this Indenture or be valid or become obligatory for any purpose. Such certificate by the Trustee upon any Debt Security executed by the Company shall be conclusive evidence that the Debt Security so authenticated has been duly authenticated and delivered hereunder and that the Holder is entitled to the benefits of this Indenture.

In case any officer of the Company who shall have executed any of the Debt Securities shall cease to be such officer before the Debt Securities so executed shall have been authenticated and delivered by the Trustee, or disposed of by the Company, such Debt Securities nevertheless shall be valid and binding and may be authenticated and delivered or disposed of as though the Person who executed such Debt Securities had not ceased to be such officer of the Company; and any Debt Securities may be executed on behalf of the Company by such Persons as, at the actual date of the execution of such Debt Security, shall be the proper officers of the Company, although at the date of such Debt Security or of the execution of this Indenture any such Person was not such an officer.

At any time and from time to time after the execution and delivery of this Indenture, the Company may deliver Debt Securities of any series, properly created in accordance with Section 3.01 and executed by the Company, to the Trustee for authentication; and the Trustee shall authenticate and deliver such Debt Securities upon receipt of a Company Order. In the event that any other Person performs the Trustee's duties as Authenticating Agent pursuant to a duly executed agreement, the Company shall notify the Trustee in writing of the issuance of any Debt Securities hereunder, such notice to be delivered in accordance with the provisions of Section 15.03 on the date such Debt Securities are delivered by the Company for authentication to such other Person.

Prior to any such authentication and delivery, the Trustee shall receive, and shall be fully protected in relying upon, in addition to the Opinion of Counsel to be furnished to the Trustee pursuant to Sections 2.02 and 15.05 and the Officer's Certificate relating to the issuance of any series of Debt Securities pursuant to Sections 15.05 and 3.01, Opinions of Counsel stating that:

(a) all instruments furnished to the Trustee conform to the requirements of this Indenture and constitute sufficient authority hereunder for the Trustee to authenticate and deliver such Debt Securities;

(b) all laws and requirements with respect to the form and execution by the Company of the supplemental indenture, if any, have been complied with, the execution and delivery of the

supplemental indenture, if any, will not violate the terms of this Indenture, the supplemental indenture has been duly qualified under the Trust Indenture Act of 1939, the Company has corporate or company power to execute and deliver any such supplemental indenture and has taken all necessary corporate action for those purposes and any such supplemental indenture has been executed and delivered and constitutes the legal, valid and binding obligation of the Company enforceable in accordance with its terms (subject, as to enforcement of remedies, to applicable bankruptcy, reorganization, insolvency, moratorium or other laws affecting creditors' rights generally from time to time in effect);

(c) the form and terms of such Debt Securities have been established in conformity with the provisions of this Indenture; and

(d) all laws and requirements with respect to the execution and delivery by the Company of such Debt Securities have been complied with, the authentication and delivery of the Debt Securities by the Trustee will not violate the terms of this Indenture, the Company has the corporate or company power to issue such Debt Securities and such Debt Securities, assuming due authentication and delivery by the Trustee, constitute legal, valid and binding obligations of the Company in accordance with their terms (subject, as to enforcement of remedies, to applicable bankruptcy, reorganization, insolvency, moratorium or other laws affecting creditors' rights generally from time to time in effect) and are entitled to the benefits of this Indenture, equally and ratably with all other Outstanding Debt Securities, if any, of such series.

The Trustee shall not be required to authenticate such Debt Securities if the issue thereof will adversely affect the Trustee's own rights, duties or immunities under the Debt Securities and this Indenture or otherwise in a manner which is not reasonably acceptable to the Trustee or such action would expose the Trustee to personal liability to existing Holders.

Unless otherwise provided in the form of Debt Security for any series, all Debt Securities shall be dated the date of their authentication.

No Debt Security shall be entitled to any benefit under this Indenture or be valid or obligatory for any purpose, unless there appears on such Debt Security a certificate of authentication substantially in the form provided for herein executed by the Trustee by manual signature, and such certificate upon any Debt Security shall be conclusive evidence, and the only evidence, that such Debt Security has been duly authenticated and delivered hereunder.

SECTION 3.05. *Temporary Debt Securities.* Pending the preparation of definitive Debt Securities of any series, the Company may execute, and upon receipt of the documents required by Sections 2.02, 3.01 and 3.04, together with a Company Order, the Trustee shall authenticate and deliver, such temporary Debt Securities which may be printed, lithographed, typewritten, mimeographed or otherwise produced, in any authorized denominations, substantially of the tenor of such definitive Debt Securities in lieu of which they are issued and with such appropriate insertions, omissions, substitutions and other variations as the officers executing such temporary Debt Securities may determine, as evidenced by their execution of such temporary Debt Securities.

If temporary Debt Securities of any series are issued, the Company will cause definitive Debt Securities of such series to be prepared without unreasonable delay. After the preparation of definitive Debt Securities of any series, the temporary Debt Securities of such series shall be exchangeable for definitive Debt Securities of such series, upon surrender of the temporary Debt Securities of such series at any office or agency maintained by the Company for such purposes as provided in Section 5.02, without charge to the Holder. Upon surrender for cancellation of any one or more temporary Debt Securities of any series, the Company shall execute and the Trustee shall authenticate and deliver in exchange therefore a like principal amount of definitive Debt Securities of such series having the same interest rate and Stated Maturity and bearing interest from the same date of any authorized denominations. Until so exchanged the temporary Debt Securities of such series shall in all respects be entitled to the same benefits under this Indenture as definitive Debt Securities of such series.

SECTION 3.06. *Exchange and Registration of Transfer of Debt Securities.* Debt Securities may be exchanged for a like aggregate principal amount of Debt Securities of such series that are of other authorized denominations. Debt Securities to be exchanged shall be surrendered at any office or agency to be maintained for such purpose by the Company, as provided in Section 5.02, and the Company shall execute and the Trustee shall authenticate and deliver in exchange therefore the Debt Security or Debt Securities of authorized denominations which the Debt Security Holder making the exchange shall be entitled to receive. Each agent of the Company appointed pursuant to Section 5.02 as a person authorized to register and register transfer of Debt Securities is sometimes herein referred to as a “Debt Security Registrar.”

The Company shall keep, at each such office or agency of the Company maintained for such purpose, as provided in Section 5.02, a register for each series of Debt Securities hereunder (the registers of all Debt Security Registrars being herein sometimes collectively referred to as the “Debt Security Register”) in which, subject to such reasonable regulations as it may prescribe, the Company shall provide for the registration of Debt Securities and shall register the transfer of Debt Securities as provided in this Article Three. At all reasonable times, such Debt Security Register shall be open for inspection by the Trustee and any Debt Security Registrar other than the Trustee. The Holder transferring Debt Securities shall provide or cause to be provided to the Trustee all information necessary to allow the Trustee to comply with any applicable tax reporting obligations, including, without limitation, any cost basis reporting obligations under Internal Revenue Code Section 6045. The Trustee may rely on such information provided to it and shall have no responsibility to verify or ensure the accuracy of such information. Upon due presentment for registration of transfer of any Debt Security at any such office or agency, the Company shall execute and register and the Trustee shall authenticate and deliver in the name of the transferee or transferees a new Debt Security or Debt Securities of authorized denominations for an equal aggregate principal amount. Registration or registration of transfer of any Debt Security by any Debt Security Registrar in the registry books maintained by such Debt Security Registrar, and delivery of such Debt Security, duly authenticated, shall be deemed to complete the registration or registration of transfer of such Debt Security.

The Company will at all times designate one Person (who may be the Company and who need not be a Debt Security Registrar) to act as repository of a master list of names and addresses of Holders of the Debt Securities. The Trustee shall act as such repository unless and until some other Person is, by written notice from the Company to the Trustee and each Debt Security

Registrar, designated by the Company to act as such. The Company shall cause each Debt Security Registrar to furnish to such repository, on a current basis, such information as such repository may reasonably request as to registrations, transfers, exchanges and other transactions effected by such registrar, as may be necessary or advisable to enable such repository to maintain such master list on a current a basis as is reasonably practicable.

No Person shall at any time be appointed as or act as a Debt Security Registrar unless such Person is at such time empowered under applicable law to act as such and duly registered to act as such under and to the extent required by applicable law and regulations.

All Debt Securities presented to a Debt Security Registrar for registration of transfer shall be duly endorsed by, or be accompanied by a written instrument or instruments of transfer in form satisfactory to the Company and such Debt Security Registrar duly executed by the registered Holder or such Holder's attorney duly authorized in writing.

Except as provided in Section 3.01 pursuant to a Board Resolution, an Officer's Certificate or an indenture supplemental hereto, no service charge shall be made for any exchange or registration of transfer of Debt Securities or conversion or exchange of less than the entire principal amount of a Debt Security, but the Company or the Trustee may require payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in connection therewith.

The Company shall not be required to issue, exchange or register a transfer of (a) any Debt Securities of any series for a period of 15 days next preceding the sending of a notice of redemption of Debt Securities of such series and ending at the close of business on the day of the sending of a notice of redemption of Debt Securities of such series so selected for redemption, or (b) any Debt Securities selected, called or being called for redemption except, in the case of any Debt Security to be redeemed in part, the portion thereof not so to be redeemed. In addition, the Company shall not be required to register the transfer of or to exchange a Debt Security between a record date and the next succeeding Interest Payment Date.

All Debt Securities issued in exchange for or upon registration of transfer of Debt Securities shall be valid obligations of the Company, evidencing the same debt, and entitled to the same benefits under this Indenture, as the Debt Securities surrendered for such exchange or registration of transfer.

None of the Trustee, any agent of the Trustee, any paying agent or the Company will have any responsibility or liability for any aspect of the records relating to or payments made on account of beneficial ownership interests of a Global Debt Security or for maintaining, supervising or reviewing any records relating to such beneficial ownership interests.

SECTION 3.07. Mutilated, Destroyed, Lost or Stolen Debt Securities. In case any temporary or definitive Debt Security shall become mutilated or be destroyed, lost or stolen, the Company in its discretion may execute, and upon its request the Trustee shall authenticate and deliver, a new Debt Security, bearing a number, letter or other distinguishing mark not contemporaneously Outstanding, in exchange and substitution for the mutilated Debt Security, or in lieu of and in substitution for the Debt Security so destroyed, lost or stolen. In every case the

applicant for a substituted Debt Security shall furnish to the Company and to the Trustee such security or indemnity as may be required by them to save each of them harmless, and, in every case of destruction, loss or theft, the applicant shall also furnish to the Company and to the Trustee evidence to their satisfaction of the destruction, loss or theft, of such Debt Security and of the ownership thereof.

In the absence of notice to the Trustee or the Company that such Debt Security has been acquired by a bona fide purchaser, the Trustee shall authenticate any such substituted Debt Security and deliver the same upon any Company Request. Upon the issuance of any substituted Debt Security, the Company may require the payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in relation thereto and any other expenses connected therewith. In case any Debt Security which has matured or is about to mature shall become mutilated or be destroyed, lost or stolen, the Company may, instead of issuing a substituted Debt Security, pay or authorize the payment of the same (without surrender thereof except in the case of a mutilated Debt Security) if the applicant for such payment shall furnish to the Company and to the Trustee such security or indemnity as may be required by them to save each of them harmless and, in case of destruction, loss or theft, evidence satisfactory to the Company and to the Trustee of the destruction, loss or theft of such Debt Security and of the ownership thereof.

Every substituted Debt Security issued pursuant to the provisions of this Section 3.07 by virtue of the fact that any Debt Security is destroyed, lost or stolen shall constitute an additional contractual obligation of the Company, whether or not the destroyed, lost or stolen Debt Security shall be found at any time, and shall be entitled to all the benefits of this Indenture equally and proportionately with any and all other Debt Securities duly issued hereunder. All Debt Securities shall be held and owned upon the express condition that the foregoing provisions are exclusive with respect to the replacement or payment of mutilated, destroyed, lost or stolen Debt Securities and shall preclude (to the extent permitted by law) any and all other rights or remedies with respect to the replacement or payment of negotiable instruments or other securities without their surrender.

SECTION 3.08. Payment of Interest; Interest Rights Preserved. Interest which is payable, and is punctually paid or duly provided for, on any Interest Payment Date, on any Debt Security, shall unless otherwise provided in such Debt Security be paid to the Person in whose name the Debt Security (or one or more Predecessor Debt Securities) is registered at the close of business on the Regular Record Date for such interest.

Unless otherwise stated in the form of Debt Security of a series, interest on the Debt Securities of any series shall be computed on the basis of a 360 day year comprised of twelve 30 day months.

Any interest on any Debt Security which is payable, but is not punctually paid or duly provided for, on any Interest Payment Date (herein called "Defaulted Interest") shall forthwith cease to be payable to the registered Holder on the relevant Regular Record Date by virtue of having been such Holder, and such Defaulted Interest may be paid by the Company, at its election in each case, as provided in Clause (a) or (b) below:

(a) The Company may elect to make payment of any Defaulted Interest to the Persons in whose names any such Debt Securities (or their respective Predecessor Debt Securities) are registered at the close of business on a Special Record Date for the payment of such Defaulted Interest, which shall be fixed in the following manner. The Company shall notify the Trustee in writing of the amount of Defaulted Interest proposed to be paid on each Debt Security and the date of the proposed payment, and at the same time the Company shall deposit with the Trustee an amount of money equal to the aggregate amount proposed to be paid in respect of such Defaulted Interest or shall make arrangements satisfactory to the Trustee for such deposit prior to the date of the proposed payment, such money when deposited to be held in trust for the benefit of the Persons entitled to such Defaulted Interest as in this clause provided. Thereupon the Trustee shall fix a Special Record Date for the payment of such Defaulted Interest which shall be not more than 15 days and not less than 10 days prior to the date of the proposed payment and not less than 10 days after the receipt by the Trustee of the notice of the proposed payment. The Trustee shall promptly notify the Company of such Special Record Date and, in the name and at the expense of the Company, shall cause notice of the proposed payment of such Defaulted Interest and the Special Record Date therefore to be mailed, first-class postage prepaid, to each Holder of such Debt Securities, at such Holder's address as it appears in the Debt Security Register, not less than 10 days prior to such Special Record Date. Notice of the proposed payment of such Defaulted Interest and the Special Record Date therefore having been mailed as aforesaid, such Defaulted Interest shall be paid to the Persons in whose names such Debt Securities (or their respective Predecessor Debt Securities) are registered on such Special Record Date and shall no longer be payable pursuant to the following Clause (b).

(b) The Company may make payment of any Defaulted Interest in any other lawful manner not inconsistent with the requirements of any securities exchange on which the Debt Securities of that series may be listed, and upon such notice as may be required by such exchange, if, after notice given by the Company to the Trustee of the proposed payment pursuant to this Clause, such payment shall be deemed practicable by the Trustee.

Subject to the foregoing provisions of this Section, each Debt Security delivered under this Indenture upon transfer of or in exchange for or in lieu of any other Debt Security shall carry the rights to interest accrued and unpaid, and to accrue, which were carried by such other Debt Security.

SECTION 3.09. *Persons Deemed Owners.* The Company, the Trustee and any agent of the Company or the Trustee may treat the Person in whose name any Debt Security is registered as the owner of such Debt Security for the purpose of receiving payment of principal of, premium, if any, and (subject to Section 3.08) interest on, such Debt Security and for all other purposes whatsoever whether or not such Debt Security be overdue, and neither the Company, the Trustee, nor any agent of the Company or the Trustee shall be affected by notice to the contrary.

SECTION 3.10. *Cancellation of Debt Securities Paid, etc.* All Debt Securities surrendered for the purpose of payment, redemption, conversion, exchange or registration of transfer or delivered in satisfaction in whole or in part of any sinking fund obligation shall, if surrendered to the Company or any agent of the Trustee or the Company under this Indenture, be delivered to the Trustee and promptly cancelled by it, or, if surrendered to the Trustee, shall be promptly cancelled by it, and no Debt Securities shall be issued in lieu thereof except as expressly

permitted by any of the provisions of this Indenture. The Trustee shall dispose of cancelled Debt Securities in accordance with its customary procedures, and certification of their cancellation by the Trustee shall be delivered to the Company by the Trustee promptly upon receipt by the Trustee of a Company Order.

SECTION 3.11. *Currency and Manner of Payments.* (a) With respect to Debt Securities denominated in Dollars or a Foreign Currency, the following payment provisions shall apply:

(1) Except as provided in subparagraph (a)(2) or in paragraph (c) of this Section 3.11, payment of principal of and premium, if any, on any Debt Securities will be made at the offices established pursuant to Section 5.02 by delivery of a check in the currency in which the Debt Security is denominated on the payment date against surrender of such Debt Security, and any interest on any Debt Security will be paid at such office by mailing a check in the currency in which the Debt Securities were issued to the Person entitled thereto at the address of such Person appearing on the Debt Security Register.

(2) Payment of the principal of and premium, if any, and interest on such Debt Security may also, subject to applicable laws and regulations, be made at such other place or places as may be designated by the Company by any appropriate method.

(b) Not later than the fourth Business Day after the Regular Record Date for such Interest Payment Date, the paying agent will deliver to the Company a written notice specifying, in the currency in which each series of the Debt Securities are denominated, the respective aggregate amounts of principal of and premium, if any, and interest on the Debt Securities to be made on such payment date, specifying the amounts so payable in respect of the Debt Securities. The failure of the paying agent to deliver such notice shall not relieve the Company from its obligation to make all payments with respect to any Debt Security when due.

(c) If the Foreign Currency in which any of the Debt Securities are denominated ceases to be used both by the government of the country which issued such currency and for the settlement of transactions by public institutions of or within the international banking community, then with respect to each date for the payment of Foreign Currency occurring after the last date on which the Foreign Currency was so used (the "Conversion Date"), the Dollar shall be the currency of payment for use on each such Interest Payment Date. The Dollar amount to be paid by the Company to the Trustee and by the Trustee or any paying agent to the Holder of such Debt Securities with respect to such payment date shall be the Dollar Equivalent of the Foreign Currency as determined by the Currency Determination Agent as of the second Business Day preceding the applicable payment date (the "Valuation Date") in the manner provided in paragraph (d).

(d) The "Dollar Equivalent of the Foreign Currency" shall be determined by the Currency Determination Agent as of each Valuation Date and shall be obtained by converting the specified Foreign Currency into Dollars at the Market Exchange Rate on the Valuation Date.

(e) The "Market Exchange Rate" shall mean, for any currency, the highest firm bid quotation for U.S. dollars received by the Currency Determination Agent at approximately 11:00 a.m., New York City time, on the second Business Day preceding the applicable payment date

(or, if no such rate is quoted on such date, the last date on which such rate was quoted), from three recognized foreign exchange dealers in the City of New York selected by the Currency Determination Agent and approved by the Company (one of which may be the Currency Determination Agent) for the purchase by the quoting dealer, for settlement on such payment date, of the aggregate amount of such currency payable on such payment in respect of all Debt Securities denominated in such currency.

(f) All decisions and determinations of the Currency Determination Agent regarding the Dollar Equivalent of the Foreign Currency and the Market Exchange Rate shall be in its sole discretion and shall, in the absence of manifest error, be conclusive for all purposes and irrevocably binding upon the Company and all Holders of the Debt Securities. In the event that the Foreign Currency ceases to be used both by the government of the country which issued such currency and for the settlement of transactions by public institutions of or within the international banking community, the Company, after learning thereof, will promptly give notice thereof to the Trustee (and the Trustee will promptly thereafter give notice in the manner provided in Section 15.03 to the Holders) specifying the Conversion Date.

(g) The Trustee shall be fully justified and protected in relying on and acting upon the information so received by it from the Company or the Currency Determination Agent and shall not otherwise have any duty or obligation to determine such information independently. If the principal of (and premium, if any) and interest on any Debt Securities is payable in a Foreign Currency and such Foreign Currency is not available for payment due to the imposition of exchange controls or other circumstances beyond the control of the Company, then the Company shall be entitled to satisfy its obligations to Holders under this Indenture by making such payment in Dollars on the basis of the Market Exchange Rate for such Foreign Currency on the latest date for which such rate was established on or before the date on which payment is due. Any payment made pursuant to this Section 3.11 in Dollars where the required payment is in a Foreign Currency shall not constitute a default or Event of Default under this Indenture.

ARTICLE 4. REDEMPTION OF DEBT SECURITIES; SINKING FUNDS.

SECTION 4.01. *Applicability of Article.* The Company may reserve the right to redeem and pay before Stated Maturity all or any part of the Debt Securities of any series, either by optional redemption, sinking fund (mandatory or optional) or otherwise, by provision therefor in the form of Debt Security for such series on such terms as are specified in such form or the Board Resolution or Officer's Certificate delivered pursuant to Section 3.01 or the indenture supplemental hereto as provided in Section 3.01 with respect to Debt Securities of such series. Redemption of Debt Securities of any series shall be made in accordance with the terms of such Debt Securities and, to the extent that this Article does not conflict with such terms, in accordance with this Article.

SECTION 4.02. *Notice of Redemption; Selection of Debt Securities.* In case the Company shall desire to exercise the right to redeem all, or, as the case may be, any part of a series of Debt Securities pursuant to Section 4.01, the Company shall fix a date for redemption and the Company, or, at the Company's request and provision of such notice information, the Trustee in the name of and at the expense of the Company, shall send a notice of such redemption at least

15 and not more than 60 days prior to the date fixed for redemption to the Holders of Debt Securities so to be redeemed as a whole or in part at their last addresses as the same appear on the Debt Securities Register. The notice, if sent in the manner herein provided, shall be conclusively presumed to have been duly given, whether or not the Holder receives such notice. In any case, failure to give such notice or any defect in the notice to the Holder of any Debt Security designated for redemption as a whole or in part shall not affect the validity of the proceedings for the redemption of any other Debt Security.

Notice of redemption shall be given in the name of the Company and shall specify the date fixed for redemption, the Redemption Price at which Debt Securities of any series are to be redeemed, the place of payment (which shall be at the offices or agencies to be maintained by the Company pursuant to Section 5.02), that payment of the Redemption Price will be made upon presentation and surrender of such Debt Securities, that interest accrued to the date fixed for redemption will be paid as specified in said notice that on and after said date interest thereon or on the portions thereof to be redeemed will cease to accrue, and the Section of this Indenture pursuant to which Debt Securities will be redeemed. In case less than all Debt Securities of any series are to be redeemed, the notice of redemption shall also identify the particular Debt Securities to be redeemed as a whole or in part and shall state that the redemption is for the sinking fund, if such is the case. In case any Debt Security is to be redeemed in part only, the notice of redemption shall state the portion of the principal amount thereof to be redeemed and shall state that on and after the date fixed for redemption, upon surrender of such Debt Security, a new Debt Security or Debt Securities of such series in aggregate principal amount equal to the unredeemed portion thereof will be issued without charge to the Holder.

If less than all the Debt Securities of any series are to be redeemed, the Company shall give the Trustee notice, at least 15 days (or such shorter period acceptable to the Trustee) in advance of the date fixed for redemption, as to the aggregate principal amount of Debt Securities to be redeemed. Debt Securities may be redeemed in part in multiples equal to the minimum authorized denomination for Debt Securities of such series or any multiple thereof. Thereupon the Trustee shall select, in such manner as in its sole discretion it shall deem appropriate and fair, the Debt Securities or portions thereof to be redeemed, and shall as promptly as practicable notify the Company of the Debt Securities or portions thereof so selected. For all purposes of this Indenture, unless the context otherwise requires, all provisions relating to the redemption of Debt Securities of any series shall relate, in the case of any Debt Security redeemed or to be redeemed only in part, to the portion of the principal amount of such Debt Security which has been or is to be redeemed.

On or prior to the date fixed for redemption specified in the notice of redemption given as provided in this Section 4.02, the Company will deposit with the Trustee or with the paying agent an amount of money in the currency in which the Debt Securities of such series are payable sufficient to redeem on the date fixed for redemption all the Debt Securities so called for redemption at the appropriate Redemption Price, together with accrued interest to the date fixed for redemption.

The Trustee shall not send any notice of redemption of any series of Debt Securities during the continuation of any default in payment of interest on any series of Debt Securities when due or of any Event of Default, except that where notice of redemption with respect to any

series of Debt Securities shall have been sent prior to the occurrence of such default or Event of Default, the Trustee shall redeem such Debt Securities provided funds are deposited with it for such purpose.

SECTION 4.03. *Payment of Debt Securities Called for Redemption.* If notice of redemption has been given as herein provided, the Debt Securities or portions of Debt Securities with respect to which such notice has been given shall become due and payable on the date and at the place stated in such notice at the applicable Redemption Price, together with interest accrued to the date fixed for redemption, and on and after said date (unless the Company shall default in the payment of such Debt Securities or portions thereof at the Redemption Price, together with interest accrued to said date) interest on the Debt Securities or portions of Debt Securities so called for redemption shall cease to accrue, and such Debt Securities and portions of Debt Securities shall be deemed not to be Outstanding hereunder and shall not be entitled to any benefit under this Indenture except to receive payment of the Redemption Price, together with accrued interest to the date fixed for redemption. On presentation and surrender of such Debt Securities at the place of payment in said notice specified, the said Debt Securities or the specified portions thereof shall be paid and redeemed by the Company at the applicable Redemption Price, together with interest accrued thereon to the date fixed for redemption; provided, however, that any installments of interest becoming due on the date fixed for redemption shall be payable to the Holders of such Debt Securities, or one or more previous Debt Securities evidencing all or a portion of the same debt as that evidenced by such particular Debt Securities, registered as such on the relevant record dates according to their terms and the provisions of Section 3.08.

Upon presentation and surrender of any Debt Security redeemed in part only, with, if the Company or the Trustee so required, due endorsement by, or a written instrument of transfer in form satisfactory to the Company and the Trustee duly executed by, the Holder thereof or such Holder's attorney duly authorized in writing, the Company shall execute and the Trustee shall authenticate and deliver to the Holder thereof, at the expense of the Company, a new Debt Security or Debt Securities of the same series having the same interest rate and Stated Maturity and bearing interest from the same date, of any authorized denominations as requested by such Holder, in aggregate principal amount equal to the unredeemed portion of the Debt Security so presented and surrendered.

SECTION 4.04. *Exclusion of Certain Debt Securities from Eligibility for Selection for Redemption.* Debt Securities shall be excluded from eligibility for selection for redemption if they are identified by registration and certificate number in a written statement signed by a Responsible Officer of the Company and delivered to the Trustee at least 45 days prior to the last date on which notice of redemption may be given as being owned of record and beneficially by, and not pledged or hypothecated by, either (a) the Company or (b) an entity specifically identified in such written statement directly or indirectly controlling or controlled by or under direct or indirect common control with the Company.

SECTION 4.05. *Provisions with Respect to any Sinking Funds.* Unless the form or terms of any series of Debt Securities shall provide otherwise, in lieu of making all or any part of any mandatory sinking fund payment with respect to such series of Debt Securities in cash, the Company may at its option (a) deliver to the Trustee for cancellation any Debt Securities of such

series theretofore acquired by the Company, or (b) receive credit for any Debt Securities of such series (not previously so credited) acquired by the Company and theretofore delivered to the Trustee for cancellation, then Debt Securities so delivered or credited shall be credited at the applicable sinking fund Redemption Price with respect to the Debt Securities of such series.

On or before the 45th day next preceding each sinking fund Redemption Date, the Company will deliver to the Trustee a certificate signed by the Chief Financial Officer, any Vice President, the Treasurer or any Assistant Treasurer of the Company specifying (i) the portion of the mandatory sinking fund payment to be satisfied by deposit of cash in the currency in which the Debt Securities of such series are payable, by delivery of Debt Securities theretofore purchased or otherwise acquired by the Company (which Debt Securities shall accompany such certificate) and by credit for Debt Securities acquired by the Company and theretofore delivered to the Trustee for cancellation redeemed by the Company and stating that the credit to be applied has not theretofore been so applied and (ii) whether the Company intends to exercise its right, if any, to make an optional sinking fund payment, and, if so, the amount thereof. Such certificate shall also state that no Event of Default has occurred and is continuing. Such certificate shall be irrevocable and upon its delivery the Company shall be obligated to make the payment or payments therein referred to, if any, on or before the next succeeding sinking fund payment date. In case of the failure of the Company on or before the 45th day next preceding each sinking fund Redemption Date to deliver such certificate (or to deliver the Debt Securities specified in this paragraph), the sinking fund payment due on the next succeeding sinking fund payment date shall be paid entirely in cash (in the currency described above) and shall be sufficient to redeem the principal amount of Debt Securities as a mandatory sinking fund payment, without the option to deliver or credit Debt Securities as provided in the first paragraph of this Section 4.05 and without the right to make an optional sinking fund payment as provided herein.

If the sinking fund payment or payments (mandatory or optional) with respect to any series of Debt Securities made in cash (in the currency described above) shall exceed the minimum authorized denomination set forth in an Officer's Certificate pursuant to Section 3.01 or the equivalent in the currency in which the Debt Securities of such series are payable (or a lesser sum if the Company shall so request), unless otherwise provided by the terms of such series of Debt Securities, said cash shall be applied by the Trustee on the sinking fund Redemption Date with respect to Debt Securities of such series at the applicable sinking fund Redemption Price with respect to Debt Securities of such series, together with accrued interest, if any, to the date fixed for redemption, with the effect provided in Section 4.03. The Trustee shall select, in the manner provided in Section 4.02, for redemption on such sinking fund Redemption Date a sufficient principal amount of Debt Securities of such series to utilize said cash and shall thereupon cause notice of redemption of the Debt Securities of such series for the sinking fund to be given in the manner provided in Section 4.02 (and with the effect provided in Section 4.03) for the redemption of Debt Securities in part at the option of the Company. Debt Securities of any series which are identified by registration and certificate number in an Officer's Certificate at least 45 days prior to the sinking fund Redemption Date as being beneficially owned by, and not pledged or hypothecated by, the Company or an entity directly or indirectly controlling or controlled by or under direct or indirect common control with the Company shall be excluded from Debt Securities of such series eligible for selection for redemption. Any sinking fund moneys not so applied or allocated by the Trustee to the redemption of Debt Securities of such series shall be added to the next cash sinking fund payment with respect to Debt Securities of

such series received by the Trustee and, together with such payment, shall be applied in accordance with the provisions of this Section 4.05. Any and all sinking fund moneys with respect to Debt Securities of any series held by the Trustee at the maturity of Debt Securities of such series, and not held for the payment or redemption of particular Debt Securities of such series, shall be applied by the Trustee, together with other moneys, if necessary, to be deposited sufficient for the purpose, to the payment of the principal of the Debt Securities of such series at maturity.

The Trustee shall not convert any currency in which the Debt Securities of such series are payable for the purposes of such sinking fund application unless a Company Request is made, and any such conversion agreed to by the Trustee in response to such request shall be for the account and at the expense of the Company and shall not affect the Company's obligation to pay the Holders in the currency to which such Holder is entitled.

On or before each sinking fund Redemption Date provided with respect to Debt Securities of any series, the Company shall pay to the Trustee in cash in the currency described above a sum equal to all accrued interest, if any, to the date fixed for redemption on Debt Securities to be redeemed on such sinking fund Redemption Date pursuant to this Section 4.05.

SECTION 4.06. *Repurchases on the Open Market.* The Company or any Affiliate of the Company may at any time or from time to time repurchase any of the Debt Securities in the open market or otherwise. Such Debt Securities may, at the option of the Company, or the relevant Affiliate of the Company, be held, resold or surrendered to the Trustee for cancellation.

ARTICLE 5. PARTICULAR COVENANTS OF THE COMPANY.

SECTION 5.01. *Payment of Principal, Premium and Interest.* The Company will duly and punctually pay or cause to be paid (in the currency in which the Debt Securities of such series are payable) the principal of and premium, if any, and interest on each of the Debt Securities at the place (subject to Section 3.03), at the respective times and in the manner provided in each series of Debt Securities and in this Indenture.

SECTION 5.02. *Offices for Notices and Payments, etc.* (a) So long as the Debt Securities of any series remain Outstanding, the Company will maintain at the Place of Payment, an office or agency where the Debt Securities may be presented for payment, an office or agency where the Debt Securities may be presented for registration of transfer and for exchange as provided in this Indenture, and an office or agency where notices and demands to or upon the Company in respect of the Debt Securities or of this Indenture may be served and shall give the Trustee written notice thereof and any changes in the location thereof. In case the Company shall at any time fail to maintain any such office or agency, or shall fail to give notice to the Trustee of any change in the location thereof, presentation and demand may be made and notice may be served in respect of the Debt Securities or of this Indenture at said office of the Trustee.

(b) In addition to the office or agency maintained by the Company pursuant to Section 5.02(a), the Company may from time to time designate one or more other offices or agencies where the Debt Securities may be presented for payment and presented for registration of transfer and for exchange in the manner provided in this Indenture, and the Company may

from time to time rescind such designations, as the Company may deem desirable or expedient; *provided, however*, that no such designation or rescission shall in any manner relieve the Company of its obligation to maintain such office and agency at the Place of Payment, for the purposes abovementioned. The Company will give to the Trustee prompt written notice of (i) any such designation or rescission thereof, and (ii) the location of any such office or agency outside the Place of Payment and of any change of location thereof.

SECTION 5.03. *Appointments to Fill Vacancies in Trustee's Office.* The Company, whenever necessary to avoid or fill a vacancy in the office of Trustee, will appoint, in the manner provided in Section 8.10, a Trustee, so that there shall at all times be a Trustee hereunder.

SECTION 5.04. *Provisions as to Paying Agent.* (a) (1) If the Company shall elect the Trustee to initially act as its paying agent or Debt Security Registrar, it will appoint the Trustee, in writing; provided that the Company may change any paying agent or Debt Security Registrar without notice to any Holder. The Company or any of its subsidiaries may act in any such capacity. The Company hereby appoints the Trustee to act as initial paying agent and Debt Security Registrar and the Trustee accepts such appointment. Whenever the Company shall have one or more paying agents for any series of Debt Securities other than the Trustee, it will, on or before each due date of the principal of (and premium, if any) or interest on any Debt Securities of such series, deposit with a paying agent a sum sufficient to pay such amount becoming due, such sum to be held as provided by the Trust Indenture Act of 1939, and (unless such paying agent is the Trustee) the Company will promptly notify the Trustee of its action or failure so to act.

(2) The Company will cause each paying agent other than the Trustee to execute and deliver to the Trustee an instrument in which such paying agent shall agree with the Trustee, subject to the provisions of this Section, that such paying agent will: (i) comply with the provisions of the Trust Indenture Act of 1939 applicable to it as a paying agent and (ii) during the continuance of any default by the Company (or any other obligor upon any series of Debt Securities) in the making of any payment in respect of the Debt Securities of such series, upon the written request of the Trustee, forthwith pay to the Trustee all sums held in trust by such paying agent as such.

(b) If the Company shall act as its own paying agent, it will, on or prior to each due date of the principal of and premium, if any, or interest on Debt Securities of any series, set aside, segregate and hold in trust for the benefit of the Holders of such Debt Securities a sum sufficient to pay such principal and premium, if any, or interest so becoming due and will notify the Trustee of any failure to take such action and of any failure by the Company (or by any other obligor on such series of Debt Securities) to make any payment of the principal of and premium, if any, or interest on the Debt Securities when the same shall become due and payable.

(c) Anything in this Section 5.04 to the contrary notwithstanding, the Company may, at any time, for the purpose of obtaining a satisfaction and discharge of this Indenture with respect to any or all series of Debt Securities then Outstanding, or for any other reason, pay or cause to be paid to the Trustee all sums held in trust by the Company, or any paying agent hereunder, as required by this Section 5.04, such sums to be held by the Trustee upon the trusts herein contained.

(d) Anything in this Section 5.04 to the contrary notwithstanding, the agreement to hold sums in trust provided in this Section 5.04 is subject to Section 13.04.

SECTION 5.05. *Certificate to Trustee.* So long as the Debt Securities of any series remain Outstanding, the Company will deliver to the Trustee on or before 120 days after the end of each fiscal year an Officer's Certificate stating that in the course of the performance by the signers of his or her duties as officer of the Company, her or she would normally have knowledge of any default by the Company in the performance or fulfillment or observance of any covenants or agreements contained herein during the preceding fiscal year, stating whether or not he or she has knowledge of any such default and, if so, specifying each such default of which the signer has knowledge and the nature thereof. The Officer's Certificate need not comply with Section 15.05. The Company shall deliver to the Trustee, as soon as possible and in any event, within five Business Days after the Company becomes aware of the occurrence of any Event of Default or an event which, with notice or the lapse of time or both, would constitute an Event of Default, an Officer's Certificate setting forth the details of such Event of Default or default and the action which the Company proposes to take with respect thereto.

SECTION 5.06. *Waivers of Covenants.* Anything in this Indenture to the contrary notwithstanding, the Company may fail or omit, in respect of any series of Debt Securities, and in any particular instance, to comply with a covenant, agreement or condition contained in Sections 5.02, 5.04 (other than in 5.04(a)(1) and (2)) or 5.05, or with any additional covenant, agreement or condition contained in a Board Resolution or Officer's Certificate establishing such series of Debt Securities, any indenture supplemental hereto applicable to such series of any Debt Security of such series if the Company shall have obtained and filed with the Trustee before or after the time for such compliance the consent in writing of the Holders of more than 50% in aggregate principal amount of the Debt Securities of the series affected by such waiver at the time Outstanding, either waiving such compliance in such instance or generally waiving compliance with such covenant or condition, but no such waiver shall extend to or affect any obligation not expressly waived nor impair any right consequent thereon and, until such waiver shall become effective, the obligations of the Company and the duties of the Trustee in respect of any such covenant or condition shall remain in full force and effect.

ARTICLE 6. HOLDERS' LISTS AND REPORTS BY THE COMPANY AND THE TRUSTEE.

SECTION 6.01. *Holder's Lists.* The Company covenants and agrees that it will furnish or cause to be furnished to the Trustee, not more than 15 days after each Regular Record Date with respect to the Debt Securities of any series, and at such other times as the Trustee may request in writing, within 30 days after receipt by the Company of any such request, a list in such form as the Trustee may reasonably require of the names and addresses of the Holders of Debt Securities of such series as of a date not more than 15 days prior to the time such information is furnished; *provided, however,* that no such list with respect to any particular series of Debt Securities need be furnished at any such time if the Trustee is in possession thereof by reason of its acting as the Debt Security Registrar for such series designated under Section 3.06 or otherwise.

SECTION 6.02. *Preservation and Disclosure of Lists.* (a) The Trustee shall preserve, in as current a form as is reasonably practicable, all information as to the names and addresses of the Holders of Debt Securities contained in the most recent list furnished to it as provided in Section 6.01 or received by the Trustee in the capacity of the Debt Security Registrar (if so acting) under Section 3.06. The Trustee may destroy any list furnished to it as provided in Section 6.01 upon receipt of a new list so furnished.

(b) The rights of Holders to communicate with other Holders with respect to their rights under this Indenture or under the Debt Securities of any series or of all Debt Securities, and the corresponding rights and duties of the Trustee, shall be as provided by the Trust Indenture Act of 1939.

(c) Every Holder of Debt Securities, by receiving and holding the same, agrees with the Company and the Trustee that neither the Company nor the Trustee nor any agent of either of them shall be held accountable by reason of any disclosure of information as to names and addresses of Holders made pursuant to the Trust Indenture Act of 1939.

SECTION 6.03. *Reports by the Company.* So long as the Debt Securities of any series are outstanding, the Company shall:

(a) furnish to the Trustee, within 15 days after the Company files the same with the Commission, copies of the annual reports and of the information, documents and other reports (or copies of such portions of any of the foregoing as the Commission may from time to time by rules and regulations prescribe) which the Company files with the Commission pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934, as amended; provided, however, that any such information, document or report filed with the Commission pursuant to its Electronic Data Gathering, Analysis and Retrieval (or EDGAR) system or any successor thereto shall be deemed to be filed with the Trustee, it being understood that the Trustee shall have no responsibility whatsoever to determine whether such filing has occurred; and

(b) comply with the other provisions of Section 314(a) of the Trust Indenture Act of 1939.

SECTION 6.04. *Reports by the Trustee.* (a) The Trustee shall transmit to Holders such reports concerning the Trustee and its actions under this Indenture as may be required pursuant to the Trust Indenture Act of 1939 at the times and in the manner provided pursuant thereto. The interval between transmissions of reports to be transmitted at intervals shall be twelve months or such shorter time required by the Trust Indenture Act of 1939. If the Trust Indenture Act of 1939 does not specify the date on which a report is due, such report shall be dated as of May 15, and due on July 15 of each year following the first issuance of Debt Securities.

(b) A copy of each such report shall, at the time of such transmission to Holders, be filed by the Trustee with each stock exchange upon which Debt Securities of any series are listed, with the Commission and with the Company. The Company will notify the Trustee when the Debt Securities of any series are listed on any stock exchange and of any delisting thereof.

ARTICLE 7.
REMEDIES OF THE TRUSTEE AND HOLDERS
ON EVENT OF DEFAULT.

SECTION 7.01. *Events of Default.* “Event of Default”, with respect to any series of Debt Securities, wherever used herein, means any one of the following events (whatever the reason for such Event of Default and whether it shall be voluntary or involuntary or be effected by operation of law or pursuant to any judgment, decree or order of any court or any order, rule or regulation of any administrative or governmental body), unless such event is either inapplicable to such series or it is specifically deleted or modified in the Board Resolution, Officer’s Certificate or supplemental indenture under which such series of Debt Securities is issued or in the form of Debt Security for such series:

(a) default in the payment of any installment of interest upon any Debt Security of such series as and when the same shall become due and payable, and continuance of such default for a period of 30 days;

(b) default in the payment of the principal of and premium, if any, on any Debt Security of such series as and when the same shall become due and payable either at maturity, upon redemption, by declaration of acceleration or otherwise;

(c) default in the payment or satisfaction of any sinking fund payment or analogous obligation, if any, with respect to the Debt Securities of such series as and when the same shall become due and payable by the terms of the Debt Securities of such series, and continuance of such default for a period of 30 days;

(d) failure on the part of the Company duly to observe or perform any of the covenants, warranties or agreements on the part of the Company in respect of the Debt Securities of such series in this Indenture (other than a covenant, warranty or agreement a default in whose performance or whose breach is specifically dealt with elsewhere in this Section) continued for a period of 90 days after the date on which written notice of such failure, specifying such failure and requiring the same to be remedied, shall have been given to the Company by the Trustee, by registered mail, or to the Company and the Trustee by the Holders of at least 25% in aggregate principal amount of the Outstanding Debt Securities of such series;

(e) a decree or order by a court having jurisdiction in the premises shall have been entered adjudging the Company a bankrupt or insolvent, or approving as properly filed a petition seeking reorganization of the Company under the Federal bankruptcy laws or any other similar applicable Federal or state law, and such decree or order shall have continued undischarged and unstayed for a period of 60 days; or a decree or order of a court having jurisdiction in the premises for the appointment of a receiver or liquidator or trustee or assignee or other similar official in bankruptcy or insolvency of the Company or of all or substantially all of its property, or for the winding up or liquidation of its affairs, shall have been entered, and such decree or order shall have continued undischarged and unstayed for a period of 60 days;

(f) the Company shall institute proceedings to be adjudicated a voluntary bankrupt, or shall consent to the filing of a bankruptcy proceeding against it, or shall file a petition or answer or consent seeking an arrangement or a reorganization under the Federal bankruptcy laws

or any other similar applicable Federal or state law, or shall consent to the filing of any such petition, or shall consent to the appointment of a receiver or liquidator or trustee or assignee or other similar official in bankruptcy or insolvency of it or of all or substantially all of its property, or shall make an assignment for the benefit of creditors, or shall admit in writing its inability to pay its debts generally as they become due; or

(g) any other Event of Default provided in the Board Resolution, Officer's Certificate or the supplemental indenture under which such series of Debt Securities is issued or in the form of Debt Security for such series;

then and in each and every such case, so long as such Event of Default with respect to any series of Debt Securities for which there are Debt Securities Outstanding occurs and is continuing (other than an Event of Default specified in clause (e) or (f) of Section 7.01) and shall not have been remedied or waived to the extent permitted by the terms of this Indenture, unless the principal of all of the Debt Securities of such series shall have already become due and payable, either the Trustee or the Holders of not less than 25% in aggregate principal amount of the Outstanding Debt Securities of such series, by notice in writing to the Company (and to the Trustee if given by Holders), may declare the principal (or, if the Debt Securities of that series are Original Issue Discount Debt Securities, such portion of the principal amount as may be specified in the terms of that series) of all the Debt Securities of such series and the interest accrued thereon to be due and payable immediately, and upon any such declaration the same shall become and shall be immediately due and payable, anything in this Indenture or in the Debt Securities of such series contained to the contrary notwithstanding. If an Event of Default specified in clause (e) or (f) of Section 7.01 occurs and is continuing, then the principal amount of (or, if the Debt Securities of that series are Original Issue Discount Debt Securities, such portion of the principal amount as may be specified in the terms thereof as due and payable upon acceleration) and any accrued and unpaid interest on that series shall immediately become due and payable without any declaration or other act on the part of the Trustee or any Holder. This provision, however, is subject to the condition that if, at any time after the principal of the Debt Securities of such series shall have been so declared due and payable, and before any judgment or decree for the payment of the moneys due shall have been obtained or entered as hereinafter provided, the Company shall pay or shall deposit with the Trustee a sum sufficient to pay in the currency in which the Debt Securities of such series are payable all matured installments of interest upon all of the Debt Securities and the principal of and premium, if any, on any and all Debt Securities of such series which shall have become due otherwise than by such declaration (with interest on overdue installments of interest to the extent that payment of such interest is enforceable under applicable law and on such principal and premium, if any, at the rate borne by the Debt Securities of such series or as otherwise provided in the form of Debt Security for such series, to the date of such payment or deposit) and the expenses of the Trustee (subject to Section 8.06), and any and all defaults under this Indenture, other than the nonpayment of principal of and accrued interest on Debt Securities of such series which shall have become due by such declaration, shall have been cured or shall have been waived in accordance with Section 7.07 or provision deemed by the Trustee to be adequate shall have been made therefor — then and in every such case the Holders of at least a majority in aggregate principal amount of the Debt Securities of such series then Outstanding, by written notice to the Company and to the Trustee, may rescind and annul such declaration and its consequences; but no such rescission and

annulment shall extend to or shall affect any subsequent default, or shall impair any right consequent thereon.

In case the Trustee or any Holders shall have proceeded to enforce any right under this Indenture and such proceedings shall have been discontinued or abandoned because of such rescission and annulment or for any other reason or shall have been determined adversely to the Trustee, then and in every such case the Company, the Trustee and the Holders shall be restored respectively to their several positions and rights hereunder, and all rights, remedies and powers of the Company, the Trustee and the Holders shall continue as though no such proceeding had been taken.

SECTION 7.02. Payment of Debt Securities Upon Default; Suit Therefor. The Company covenants that (a) in case default shall be made in the payment of any installment of interest upon any Debt Security of any series as and when the same shall become due and payable, and such default shall have continued for a period of 30 days, or (b) in case default shall be made in the payment of the principal of and premium, if any, on any Debt Security of any series as and when the same shall have become due and payable, whether at maturity of the Debt Security or upon redemption or by declaration or otherwise or (c) in case default shall be made in the making or satisfaction of any sinking fund payment or analogous obligation with respect to the Debt Securities of any series when the same becomes due by the terms of the Debt Securities of any series, and such default shall have continued for a period of 30 days—then, upon demand of the Trustee, the Company will pay to the Trustee, for the benefit of the Holders of any such series, the whole amount that then shall have become due and payable on any such Debt Securities for principal and premium, if any, or interest, or both, as the case may be, with interest upon the overdue principal and premium, if any, and (to the extent that payment of such interest is enforceable under applicable law) upon the overdue installments of interest at the rate borne by the Debt Securities of such series or as otherwise provided in the form of Debt Security of such series; and, in addition thereto, such further amount as shall be sufficient to cover the costs and expenses of collection, including a reasonable compensation to the Trustee, its agents, attorneys and counsel, and any expenses or liabilities incurred and advances made by the Trustee, except compensation or advances arising, or expenses or liabilities incurred, as a result of the Trustee's negligence or willful misconduct.

Until such demand is made by the Trustee, the Company may pay the principal of and premium, if any, and interest on the Debt Securities of any series to the Persons entitled thereto, whether or not the principal of and premium, if any, and interest on the Debt Securities of such series are overdue.

In case the Company shall fail forthwith to pay such amounts upon such demand, the Trustee, in its own name and as trustee of an express trust, shall be entitled and empowered to institute any actions or proceedings at law or in equity for the collection of the sums so due and unpaid, and may prosecute any such action or proceeding to judgment or final decree, and may enforce any such judgment or final decree against the Company or any other obligor on such Debt Securities and collect, in the manner provided by law out of the property of the Company or any other obligor on such Debt Securities wherever situated, the moneys adjudged or decreed to be payable. If any Event of Default with respect to any series of Debt Securities occurs and is continuing, the Trustee may in its discretion proceed to protect and enforce its rights and the

rights of the Holders of Debt Securities of such series by such appropriate judicial proceedings as the Trustee shall deem most effectual to protect and enforce any such rights, whether for the specific enforcement of any covenant or agreement in this Indenture or in aid of the exercise of any power granted herein, or to enforce any other proper remedy.

In case there shall be pending proceedings for the bankruptcy or for the reorganization of the Company or any other obligor on the Debt Securities of any series under the Federal bankruptcy laws or any other applicable law, or in case a receiver or trustee shall have been appointed for the property of the Company or such other obligor, or in the case of any other similar judicial proceedings relative to the Company or other obligor upon the Debt Securities of any series, or to the creditors or property of the Company or such other obligor, the Trustee, irrespective of whether the principal of the Debt Securities of such series shall then be due and payable as therein expressed or by declaration or otherwise and irrespective of whether the Trustee shall have made any demand pursuant to the provisions of this Section 7.02, shall be entitled and empowered by intervention in such proceedings or otherwise, (a) to file and prove a claim or claims for the whole amount of principal and interest owing and unpaid in respect of the Debt Securities of such series, and, in case of any judicial proceedings, to file such proofs of claim and other papers or documents as may be necessary or advisable in order to have the claims of the Trustee and of the Holders of the Debt Securities of such series allowed in such judicial proceedings relative to the Company or any other obligor on such Debt Securities, its or their creditors, or its or their property, (b) unless prohibited by applicable law and regulations, to vote on behalf of the Holders of any Debt Securities of any series in any election of a trustee or a standby trustee in arrangement, reorganization, liquidation or other bankruptcy or insolvency proceedings or person performing similar functions in comparable proceedings, and (c) to collect and receive any moneys or other property payable or deliverable on any such claims, and to distribute the same after the deduction of its charges and expenses; and any receiver, assignee or trustee in bankruptcy or reorganization is hereby authorized by each of the Holders of the Debt Securities of such series to make such payments to the Trustee, and, in the event that the Trustee shall consent to the making of such payments directly to such Holders, to pay to the Trustee such amount as shall be sufficient to cover reasonable compensation to the Trustee, its agents, attorneys and counsel, and all other expenses and liabilities incurred and advances made by the Trustee except compensation or advances arising, or expenses or liabilities incurred, as a result of the Trustee's negligence or willful misconduct.

Nothing herein contained shall be deemed to authorize the Trustee to authorize or consent to or accept, or adopt on behalf of any Holder any plan or reorganization, arrangement, adjustment or composition affecting the Debt Securities or the rights of any Holder thereof, or to authorize the Trustee to vote in respect of the claim of any Holder (except, as aforesaid, for the election of a trustee in bankruptcy or other Person performing similar functions) in any such proceeding.

All rights of action and of asserting claims under this Indenture, or under any of the Debt Securities of any series, may be enforced by the Trustee without the possession of any of such Debt Securities, or the production thereof on any trial or other proceeding relative thereto, and any such suit or proceeding instituted by the Trustee shall be brought in its own name as trustee of an express trust, and any recovery of judgment shall be for the ratable benefit of the Holders of the Debt Securities of such series in respect of which such judgment has been recovered.

In any proceedings brought by the Trustee (and also any proceedings involving the interpretation of any provision of this Indenture to which the Trustee shall be a party), the Trustee shall be held to represent all the Holders of the Debt Securities in respect to which such action was taken, and it shall not be necessary to make any Holders of such Debt Securities parties to any such proceedings.

SECTION 7.03. *Application of Moneys Collected by Trustee.* Any moneys collected by the Trustee pursuant to Section 7.02 and any other money or property distributed in respect of the Company's obligations under this Indenture after an Event of Default shall be applied in the order following, at the date or dates fixed by the Trustee for the distribution of such moneys, upon presentation of the Debt Securities of such series, and stamping thereon the payment, if only partially paid, and upon surrender thereof, if fully paid:

FIRST: To the Trustee for payment of amounts owed to the Trustee, including payment of all compensation agreed in writing between the Company and the Trustee, and of all other expenses and liabilities incurred (including, in each case, reasonable attorneys' fees and expenses), and all advances made, by the Trustee, and the costs and expenses of collection (including, in each case, reasonable attorneys' fees and expenses) except compensation or advances arising, or expenses or liabilities incurred, as a result of its negligence or willful misconduct, and any other amounts owing the Trustee under Section 8.06;

SECOND: In case the principal of the Debt Securities of such series shall not have become due and be unpaid, to the payment of interest on such Debt Securities, in the order of the maturity of the installments of such interest, with interest (to the extent that such interest has been collected by the Trustee) upon the overdue installments of interest at the rate borne by such Debt Securities, such payments to be made ratably to the Persons entitled thereto;

THIRD: In case the principal of the Debt Securities of such series shall have become due, by declaration or otherwise, to the payment of the whole amount then owing and unpaid upon such Debt Securities for principal and premium, if any, and interest, with interest on the overdue principal and premium, if any, and (to the extent that such interest has been collected by the Trustee) upon overdue installments of interest at the rate borne by such Debt Securities; and in case such moneys shall be insufficient to pay in full the whole amounts so due and unpaid upon such Debt Securities, then, to the payment of such principal and premium, if any, and interest without preference or priority of principal and premium, if any, over interest, or of interest over principal and premium, if any, or of any installment of interest over any other installment of interest, or of any Debt Security of such series over any other such Debt Security, ratably to the aggregate of such principal and premium, if any, and accrued and unpaid interest;

FOURTH: To the payment of any surplus then remaining to the Company, its successors or assigns, or to such party as a court of competent jurisdiction shall direct.

SECTION 7.04. *Proceedings by Holders.* No Holder of any Debt Security of any series shall have any right by virtue of or by availing of any provision of this Indenture to institute any suit, action or proceeding in equity or at law or in bankruptcy or otherwise upon or under or with respect to this Indenture or for the appointment of a receiver or trustee, or for any other remedy hereunder, unless such Holder previously shall have given to the Trustee written notice of default

and of the continuance thereof, as hereinbefore provided, and unless also the Holders of not less than 25% in aggregate principal amount of the Debt Securities of such series then Outstanding shall have made written request upon the Trustee to institute such action, suit or proceeding in its own name as Trustee hereunder and shall have offered to the Trustee such reasonable indemnity as it may require against the costs, expenses and liabilities to be incurred therein or thereby, and the Trustee for 60 days after its receipt of such notice, request and offer of indemnity, shall have neglected or refused to institute any such action, suit or proceeding (and no direction inconsistent with such written request shall have been given to the Trustee pursuant to Section 7.07), it being understood and intended, and being expressly covenanted by the taker and Holder of every Debt Security of every series with every other taker and Holder and the Trustee, that no one or more Holders of Debt Securities shall have any right in any manner whatever by virtue of or by availing of any provision of this Indenture to affect, disturb or prejudice the rights of any other Holder of such Debt Securities, or to obtain or seek to obtain priority over or preference to any other such Holder, or to enforce any right under this Indenture, except in the manner herein provided and for the equal, ratable and common benefit of all Holders of Debt Securities.

SECTION 7.05.*Proceedings by Trustee.* In case of an Event of Default hereunder the Trustee may in its discretion proceed to protect and enforce its rights and the rights of the Holders vested in it by this Indenture by such appropriate judicial proceedings as the Trustee shall deem most effectual to protect and enforce any of such rights, either by suit in equity or by action at law or by proceeding in bankruptcy or otherwise, whether for the specific enforcement of any covenant or agreement contained in this Indenture or in aid of the exercise of any power granted in this Indenture, or to enforce any other legal or equitable right vested in the Trustee by this Indenture or by law.

SECTION 7.06.*Remedies Cumulative and Continuing.* All powers and remedies given by this Article Seven to the Trustee or to the Holders shall, to the extent permitted by law, be deemed cumulative and not exclusive of any thereof or of any other powers and remedies available to the Trustee or the Holders, by judicial proceedings or otherwise, to enforce the performance or observance of the covenants and agreements contained in this Indenture, and no delay or omission of the Trustee or of any Holder to exercise any right or power accruing upon any default occurring and continuing as aforesaid shall impair any such right or power, or shall be construed to be a waiver of any such default or an acquiescence therein; and, subject to the provisions of Section 7.04, every power and remedy given by this Article Seven or by law to the Trustee or to the Holders may be exercised from time to time, and as often as shall be deemed expedient, by the Trustee or by the Holders.

SECTION 7.07.*Direction of Proceedings and Waiver of Defaults by Majority of Holders.* The Holders of a majority in aggregate principal amount of the Outstanding Debt Securities of any series shall have the right to direct the time, method, and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred on the Trustee with respect to the Debt Securities by this Indenture; provided, however, that (subject to the provisions of Section 8.01) the Trustee shall have the right to decline to follow any such direction if the Trustee shall determine upon advice of counsel that the action or proceeding so directed may not lawfully be taken or would be materially and unjustly prejudicial to the rights of Holders not joining in such direction or if the Trustee in good faith by its board of directors or trustees, executive committee, or a trust committee of directors or trustees and/or Responsible

Officers shall determine that the action or proceeding so directed would involve the Trustee in personal liability or if the Trustee in good faith shall so determine that the actions or forbearances specified in or pursuant to such direction would be unduly prejudicial to the interests of Holders of the Debt Securities of all series not joining in the giving of said direction, it being understood that (subject to Section 8.01) the Trustee shall have no duty to ascertain whether or not such actions or forbearances are duly prejudicial to such Holders. The Trustee may take any other action deemed proper by the Trustee not inconsistent with such direction. Subject to Section 7.01, the Holders of a majority in aggregate principal amount of the Outstanding Debt Securities of any series may on behalf of the Holders of all the Debt Securities of such series waive any past default or Event of Default hereunder and its consequences except a default in the payment of principal of or premium, if any, or interest on such Debt Securities, or a default in the making of any sinking fund payment with respect to such Debt Securities. Upon any such waiver the Company, the Trustee and the Holders of such Debt Securities shall be restored to their former positions and rights hereunder, respectively; but no such waiver shall extend to any subsequent or other default or Event of Default or impair any right consequent thereon. Whenever any default or Event of Default shall have been waived as permitted by this Section 7.07, said default or Event of Default shall for all purposes of the Debt Securities and this Indenture be deemed to have been cured and to be not continuing.

This Section 7.07 shall be in lieu of Sections 316(a)(1)(A) and 316(a)(1)(B) of the Trust Indenture Act of 1939 and such Sections 316(a)(1)(A) and Section 316(a)(1)(B) are hereby expressly excluded from this Indenture, as permitted by the Trust Indenture Act of 1939.

SECTION 7.08. Notice of Defaults. Within 90 days after the occurrence of any default hereunder with respect to the Debt Securities of any series, the Trustee shall transmit first-class by mail, postage prepaid, to all Holders of Debt Securities of such series, as their names and addresses appear in the Debt Security Register, notice of such default hereunder actually known to the Trustee, unless such default shall have been cured or waived; provided, however, that, except in the case of a default in the payment of the principal of (or premium, if any) or interest on any Debt Security of such series or in the payment of any sinking fund installment with respect to Debt Securities of such series, the Trustee shall be protected in withholding such notice if and so long as the board of directors, the executive committee or a trust committee of directors or Responsible Officers of the Trustee in good faith determines that the withholding of such notice is in the interest of the Holders of Debt Securities of such series; and provided, further, that in the case of any default of the character specified in Section 7.01(d) with respect to Debt Securities of such series, no such notice to Holders shall be given until at least 60 days after the occurrence thereof. For the purpose of this Section, the term “default” means any event which is, or after notice or lapse of time or both would become, an Event of Default with respect to Debt Securities of such series.

SECTION 7.09. Undertaking to Pay Costs. In any suit for the enforcement of any right or remedy under this Indenture, or in any suit against the Trustee for any action taken, suffered or omitted by it as Trustee, a court may require any party litigant in such suit to file an undertaking to pay the costs of such suit, and may assess costs against any such party litigant, in the manner and to the extent provided in the Trust Indenture Act of 1939; provided that neither this Section nor the Trust Indenture Act of 1939 shall be deemed to authorize any court to require such an undertaking or to make such an assessment in any suit instituted by the Company or the Trustee,

and any provision of the Trust Indenture Act of 1939 to such effect is hereby expressly excluded from this Indenture, as permitted by the Trust Indenture Act of 1939.

SECTION 7.10. *Unconditional Right of Holders to Receive Principal, Premium and Interest.* Notwithstanding any other provision in this Indenture, the Holder of any Debt Security shall have the rights, which are absolute and unconditional, to receive payment of the principal of, premium, if any, and (subject to Section 3.08) interest on such Debt Security on the respective Stated Maturities expressed in such Debt Security (or in the case of redemption or repayment, on the date for redemption or repayment, as the case may be) and to institute suit for the enforcement of any such payment, and such rights shall not be impaired without the consent of such Holder.

ARTICLE 8. CONCERNING THE TRUSTEE.

SECTION 8.01. Duties and Responsibilities of Trustee

(a) Except during the continuance of an Event of Default, the Trustee undertakes to perform such duties and only such duties as are specifically set forth in this Indenture, and no implied covenants or obligations shall be read into this Indenture against the Trustee.

(b) Except during the continuance of an Event of Default, in the absence of bad faith on its part, the Trustee may conclusively rely, as to the truth of the statements and the correctness of the opinions expressed therein, upon certificates or opinions furnished to the Trustee and conforming to the requirements of this Indenture; but in the case of any such certificates or opinions which by any provision thereof are specifically required to be furnished to the Trustee, the Trustee shall be under a duty to examine the same to determine whether or not they conform to the requirements of this Indenture (but need not confirm or investigate the accuracy of mathematical calculations or other facts stated therein).

(c) In case an Event of Default has occurred and is continuing, the Trustee shall exercise such of the rights and powers vested in it by this Indenture, and use the same degree of care and skill in their exercise, as a prudent person would exercise or use under the circumstances in the conduct of his or her own affairs.

(d) No provision of this Indenture shall be construed to relieve the Trustee from liability for its own negligent action, its own negligent failure to act, or its own willful misconduct, except that:

(1) this Subsection (c) shall not be construed to limit the effect of Subsections (a) or (d) of this Section 8.01;

(2) the Trustee shall not be liable for any error of judgment made in good faith by a Responsible Officer of the Trustee, unless it shall be proved that the Trustee was negligent in ascertaining the pertinent facts; and

(3) the Trustee shall not be liable with respect to any action taken or omitted to be taken by it in good faith in accordance with the direction of the Holders of a

majority in principal amount of the Outstanding Securities of any series relating to 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, under this Indenture with respect to the Securities of such series.

(e) No provision of this Indenture shall require the Trustee to expend or risk its own funds or otherwise incur any financial liability in the performance of any of its duties hereunder, or in the exercise of any of its rights or powers, if it shall have reasonable grounds for believing that repayment of such funds or adequate indemnity against such risk or liability is not reasonably assured to it.

(f) Whether or not therein expressly so provided, every provision of this Indenture relating to the conduct or affecting the liability of or affording protection to the Trustee shall be subject to the provisions of this Section 8.01.

SECTION 8.02. *Reliance on Documents, Opinions, etc.*. Subject to the provisions of Section 8.01,

(a) the Trustee may rely and shall be protected in acting or refraining from acting upon any resolution, certificate, statement, instrument, opinion, report, notice, request, consent, order, bond, debenture, note or other paper document believed by it to be genuine and to have been signed or presented by the proper party or parties;

(b) any request, direction, order or demand of the Company mentioned herein shall be sufficiently evidenced by Company Request or Company Order (unless otherwise evidence in respect thereof be herein specifically prescribed); and any resolution of the Board of Directors may be evidenced to the Trustee by a copy thereof certified by the Secretary or an Assistant Secretary of the Company;

(c) the Trustee may consult with counsel of its selection and the advice of such counsel or any Opinion of Counsel shall be full and complete authorization and protection in respect of any action taken, suffered or omitted by it hereunder in good faith and reliance thereon;

(d) the Trustee shall be under no obligation to exercise any of the rights or powers vested in it by this Indenture at the request or direction of any of the Holders, pursuant to the provisions of this Indenture, unless such Holders shall have offered to the Trustee security or indemnity reasonably satisfactory to the Trustee against the costs, expenses and liabilities which may be incurred by it in compliance with such request or direction;

(e) the Trustee shall not be liable for any action taken, suffered or omitted to be taken by it in good faith and believed by it to be authorized or within the discretion or rights or powers conferred upon it by this Indenture;

(f) the Trustee shall not be bound to make any investigation into the facts or matters stated in any resolution, certificate, statement, instrument, opinion, report, notice, request, consent, order, approval, bond, debenture, note, or other paper or document, unless requested in writing to do so by the Holders of not less than a majority in principal amount of such Debt

Securities then Outstanding; *provided, however*, that the reasonable expenses of every such investigation shall be paid by the Company or, if paid by the Trustee, shall be repaid by the Company upon demand; and *provided, further*, that if the payment within a reasonable time to the Trustee of the costs, expenses or liabilities likely to be incurred by it in the making of such investigation is, in the opinion of the Trustee, not reasonably assured to the Trustee by the security afforded to it by the terms of this Indenture, the Trustee may require reasonable indemnity against such expenses or liabilities as a condition to so proceeding;

(g) the Trustee may execute any of the trusts or powers hereunder or perform any duties hereunder either directly or by or through agents or attorneys, and the Trustee shall not be liable or responsible for any misconduct (whether willful or unintentional), or negligence on the part of any agent or attorney appointed with due care by it hereunder;

(h) the Trustee shall not be deemed to have notice or be charged with knowledge of any default or Event of Default unless written notice of such default or Event of Default from the Company or any Holder is received by a Responsible Officer of the Trustee at the Corporate Trust Office of the Trustee, and such notice references the Debt Securities and this Indenture;

(i) the rights, privileges, protections, immunities and benefits given to the Trustee, including its right to be indemnified, are extended to, and shall be enforceable by, the Trustee in each of its capacities hereunder, and each agent, custodian and other Person employed to act hereunder; and

(j) the permissive rights of the Trustee enumerated herein shall not be construed as duties.

(k) in no event shall the Trustee be responsible or liable for special, indirect, punitive or consequential loss or damage of any kind whatsoever (including, but not limited to, loss of profit) irrespective of whether the Trustee has been advised of the likelihood of such loss or damage and regardless of the form of action or inaction;

(l) the Trustee shall not be required to give any bond or surety in respect of the performance of its powers and duties hereunder; and

(m) the Trustee may request that the Company deliver a certificate setting forth the names of individuals and/or titles of officers authorized at such time to take specified actions pursuant to this Indenture.

SECTION 8.03. *No Responsibility for Recitals, etc.* The recitals contained herein and in the Debt Securities (except in the Trustee's certificate of authentication) shall be taken as the statements of the Company, and the Trustee assumes no responsibility for the correctness of the same. The Trustee makes no representations as to the validity or sufficiency of this Indenture or of the Debt Securities of any series. The Trustee represents that it is duly authorized to execute and deliver this Indenture. Neither the Trustee nor the Authenticating Agent shall be accountable for the use or application by the Company or any Debt Securities or the proceeds of any Debt Securities authenticated and delivered by the Trustee in conformity with the provisions of this Indenture.

SECTION 8.04. *Trustee and Agents May Own Debt Securities.* The Trustee, any paying agent, or any agent of the Trustee or the Company under this Indenture, in its individual or any other capacity, may become the owner or pledgee of Debt Securities of any series with the same rights it would have if it were not Trustee or such agent and, subject to Sections 8.08 and 8.13, if operative, may otherwise deal with the Company and receive, collect, hold, and retain collections from the Company with the same rights it would have if it were not the Trustee or such agent.

SECTION 8.05. *Moneys to be Held in Trust.* Subject to the provisions of Section 13.04, all moneys received by the Trustee shall, until used or applied as herein provided, be held in trust for the purposes for which they were received, but need not be segregated from other funds except to the extent required by law. Neither the Trustee nor any paying agent shall be under any liability for interest on, or to invest, any moneys received by it hereunder except such as it may agree with the Company to pay thereon. So long as no Event of Default with respect to the Debt Securities of any series shall have occurred and be continuing, all interest allowed on any such moneys shall be paid from time to time upon the receipt of a Company Order.

SECTION 8.06. *Compensation and Expenses of Trustee.* The Company covenants and agrees to pay to the Trustee from time to time, and the Trustee shall be entitled to, reasonable compensation (which shall not be limited by any provision of law in regard to the compensation of a trustee of an express trust), and the Company will pay or reimburse the Trustee upon its request for all reasonable expenses, disbursements and advances incurred or made by the Trustee in accordance with any of the provisions of this Indenture (including the reasonable compensation and the expenses and disbursements of its counsel and all persons not regularly in its employ and any amounts paid by the Trustee to any Authenticating Agent pursuant to Section 8.14) except any such expense, disbursement or advance as may arise from its negligence or willful misconduct. The Company also covenants to indemnify the Trustee for, and to hold it harmless against, any loss, damage, claims, liability or expense incurred without negligence or willful misconduct on the part of the Trustee and arising out of or in connection with this Indenture, including the acceptance or administration of this trust, or the performance of its duties hereunder, including the current payment of all costs and expenses of defending itself against any claim of liability in the premises and the reasonable costs and expenses of enforcing this Indenture against the Company (including this Section). The obligations of the Company under this Section 8.06 to compensate and indemnify the Trustee and to pay or reimburse the Trustee for expenses, disbursements and advances shall constitute additional indebtedness hereunder. Such additional indebtedness shall be secured by a lien prior to that of the Debt Securities upon all property and funds held or collected by the Trustee as such, except funds held in trust for the benefit of the Holders of particular Debt Securities. In addition to, but without prejudice to its other rights under this indenture, when the Trustee incurs expenses or renders services in connection with an Event of Default specified in Section 7.01(e) or Section 7.01(f), the expenses (including the reasonable charges and expenses of its counsel) and the compensation for the services are intended to constitute expenses of administration under any applicable Federal or state bankruptcy, insolvency or other similar law.

“Trustee” for purposes of this Section shall include any predecessor Trustee; provided, however, that the negligence or willful misconduct of any Trustee hereunder shall not affect the rights of any other Trustee hereunder.

The provisions of this Section shall survive the termination of this Indenture, the satisfaction and discharge of this Indenture and the resignation or removal of the Trustee.

SECTION 8.07. *Officer's Certificate as Evidence.* Subject to the provisions of Section 8.01, whenever in the administration of the provisions of this Indenture the Trustee shall deem it necessary or desirable that a matter be proved or established prior to taking or omitting any action hereunder, such matter (unless other evidence in respect thereof be herein specifically prescribed) may, in the absence of negligence or willful misconduct on the part of the Trustee, be deemed to be conclusively proved and established by an Officer's Certificate conforming to the requirements of this Indenture delivered to the Trustee, and such Certificate, in the absence of negligence or willful misconduct on the part of the Trustee, shall be full warrant to the Trustee for any action taken or omitted by it under the provisions of this Indenture upon the reliance thereof.

SECTION 8.08. *Conflicting Interest of Trustee.* If the Trustee has or shall acquire any conflicting interest within the meaning of the Trust Indenture Act of 1939, the Trustee shall either eliminate such conflicting interest or resign in the manner provided by, and subject to the provisions of, the Trust Indenture Act of 1939 and this Indenture.

SECTION 8.09. *Eligibility of Trustee.* There shall at all times be a Trustee with respect to each series of Debt Securities hereunder which shall be a Person organized and doing business under the laws of the United States or any state or territory thereof or of the District of Columbia authorized under such laws to exercise trust powers, having a combined capital and surplus of at least \$50,000,000, subject to supervision or examination by Federal, state, territorial, or District of Columbia authority and willing to act as Trustee hereunder. If such Person publishes reports of condition at least annually, pursuant to law or to the requirements of the aforesaid supervising or examining authority, then for the purposes of this Section 8.09, the combined capital and surplus of such Person shall be deemed to be its combined capital and surplus as set forth in its most recent report of condition so published. In case at any time the Trustee with respect to any series of Debt Securities shall cease to be eligible in accordance with the provisions of this Section 8.09, such Trustee shall resign immediately in the manner and with the effect specified in Section 8.10.

SECTION 8.10. *Resignation or Removal of Trustee.* (a) The Trustee may at any time resign with respect to any series of Debt Securities by giving written notice by first class mail of such resignation to the Company and to the Holders of such series of Debt Securities at their addresses as they shall appear on the Debt Security Register. Upon receiving such notice of resignation, the Company shall promptly appoint a successor trustee with respect to such series by written instrument, in duplicate, executed by order of the Board of Directors, one copy of which instrument shall be delivered to the resigning Trustee and one copy to the successor trustee. If no successor trustee with respect to such series shall have been so appointed and have accepted appointment within 60 days after the mailing of such notice of resignation to the Holders, the resigning Trustee may, at the expense of the Company, petition any court of competent jurisdiction for the appointment of a successor trustee, or any Holder of such series of Debt Securities who has been a bona fide Holder of a Debt Security or Debt Securities of such series for at least six months may, subject to the provisions of Section 7.09, on behalf of such Holder and all others similarly situated, petition any such court for the appointment of a

successor trustee with respect to such series. Such court may thereupon, after such notice, if any, as it may deem proper and prescribe, appoint such successor trustee.

(b) In case at any time any of the following shall occur—

(1) the Trustee shall fail to comply with the provisions of Section 8.08 after written request therefor by the Company or by any Holder who has been a bona fide Holder of a Debt Security or Debt Securities of such series for at least six months, unless the Trustee's duty to resign is stayed in accordance with the provisions of Section 310(b) of the Trust Indenture Act of 1939,

(2) the Trustee shall cease to be eligible in accordance with the provisions of Section 8.09 and shall fail to resign after written request therefor by the Company or by any such Holder of a note of such series, or

(3) the Trustee shall become incapable of acting with respect to any series of Debt Securities, or shall be adjudged a bankrupt or insolvent, or a receiver of the Trustee or of its property shall be appointed, or any public officer shall take charge or control of the Trustee or of its property or affairs for the purpose of rehabilitation, conservation or liquidation;

then, in any such case, the Company may remove the Trustee with respect to such series and appoint a successor trustee for such series by Company Order, one copy of which Company Order shall be delivered to the Trustee so removed and one copy to the successor trustee, or, subject to the provisions of Section 7.09, any Holder who has been a bona fide Holder of a Debt Security or Debt Securities of such series for at least six months may, on behalf of such Holder and all others similarly situated, petition any court of competent jurisdiction for the removal of the Trustee and the appointment of a successor trustee with respect to such series. Such court may thereupon, after such notice, if any, as it may deem proper and prescribe, remove such Trustee and appoint such successor trustee.

(c) The Holders of a majority in aggregate principal amount of the Outstanding Debt Securities of any series may at any time remove the Trustee with respect to such series by delivering to the Trustee so removed, to the successor trustee so appointed and to the Company the evidence provided for in Section 9.01 of the action in that regard taken by the Holders, and nominate a successor Trustee which shall be deemed appointed as successor Trustee unless within ten days after such nomination the Company objects thereto, in which case the Trustee so removed or any Holder of a Debt Security or Debt Securities of such series, upon the terms and conditions and otherwise as in subsection (a) of this Section 8.10 provided, may petition any court of competent jurisdiction for an appointment of a successor Trustee with respect to such series.

(d) Any resignation or removal of the Trustee with respect to all or any series of Debt Securities and any appointment of a successor Trustee pursuant to any of the provisions of this Section 8.10 shall become effective upon acceptance of appointment by the successor Trustee as provided in Section 8.11.

SECTION 8.11 *Acceptance by Successor Trustee.* Any successor Trustee appointed as provided in Section 8.10 shall execute, acknowledge and deliver to the Company and to its

predecessor Trustee an instrument accepting such appointment hereunder, and thereupon the resignation or removal of the predecessor Trustee shall become effective with respect to all or any series as to which it is resigning as Trustee, and such successor Trustee, without any further act, deed or conveyance, shall become vested with all the rights, powers, duties and obligations of its predecessor hereunder with respect to all or any such series, with like effect as if originally named as Trustee herein with respect to all or any such series; nevertheless, on the written request of the Company or of the successor Trustee, the Trustee ceasing to act shall, upon payment of any amounts then due it pursuant to the provisions of Section 8.06, execute and deliver an instrument transferring to such successor Trustee all the rights and powers of the Trustee with respect to all or any such series so ceasing to act. Upon request of any such successor Trustee, the Company shall execute any and all instruments in writing for more fully and certainly vesting in and confirming to such successor Trustee all such rights and powers. Any Trustee ceasing to act shall, nevertheless, retain a lien upon all property or funds held or collected by such Trustee with respect to all or any series as to which it is resigning as Trustee, to secure any amounts and shall be entitled to any indemnities then due it pursuant to the provisions of Section 8.06.

No successor Trustee shall accept appointment as provided in this Section 8.11 unless at the time of such acceptance such successor Trustee shall be qualified under the provisions of Section 8.08 and eligible under the provisions of Section 8.09.

Upon acceptance of appointment by a successor Trustee with respect to all or any series of Debt Securities as provided in this Section 8.11, the Company shall mail notice of the succession of such Trustee hereunder to the Holders of Debt Securities of such series at their addresses as they shall appear on the Debt Security Register. If the Company fails to mail such notice within ten days after acceptance of appointment by the successor Trustee, the successor Trustee shall cause such notice to be mailed at the expense of the Company.

In case the appointment hereunder of a successor Trustee with respect to the Debt Securities of one or more (but not all) series, the Company, the retiring Trustee and each successor Trustee with respect to the Debt Securities of any applicable series shall execute and deliver an indenture supplemental hereto which shall contain such provisions as shall be deemed necessary or desirable to confirm that all the rights, powers, trusts and duties of the retiring Trustee with respect to the Debt Securities of any series as to which the retiring Trustee is not retiring shall continue to be vested in the retiring Trustee, and shall add to or change any of the provisions of this Indenture as shall be necessary to provide for or facilitate the administration of the trusts hereunder by more than one Trustee, it being understood that nothing herein or in such supplemental indenture shall constitute such Trustees co-trustees of the same trust and that each such Trustee shall be Trustee of a trust or trusts hereunder separate and apart from any trust or trusts hereunder administered by any other such Trustee.

SECTION 8.12. *Succession by Merger, etc.* Subject to Sections 8.08 and 8.09, any Person into which the Trustee may be merged or converted or with which it may be consolidated, or any Person resulting from any merger, conversion or consolidation to which the Trustee shall be a party, or any Person succeeding to all or substantially all the corporate trust business of the Trustee, shall be the successor of the Trustee hereunder without the execution or filing of any paper or any further act on the part of any of the parties hereto.

In case at the time any successor to the Trustee shall succeed to the trusts created by this Indenture any of the Debt Securities shall have been authenticated but not delivered, any such successor to the Trustee may adopt the certificate of authentication of any predecessor Trustee, and deliver such Debt Securities so authenticated; and in case at that time any of the Debt Securities shall not have been authenticated, any successor to the Trustee may authenticate such Debt Securities in the name of such successor Trustee; and in all such cases such certificate shall have the full force which it is anywhere in the Debt Securities or in this Indenture provided that the certificate of the Trustee shall have.

SECTION 8.13. *Limitation on Rights of Trustee as a Creditor.* If and when the Trustee shall be or become a creditor of the Company (or any other obligor upon the Debt Securities), the Trustee shall be subject to the provisions of the Trust Indenture Act of 1939 regarding the collection of claims against the Company (or any such other obligor).

SECTION 8.14. *Authenticating Agents.* There may be an Authenticating Agent or Authenticating Agents appointed by the Trustee from time to time with power to act on its behalf and subject to its direction in the authentication and delivery of any series of Debt Securities issued upon original issuance, exchange, conversion, transfer or redemption thereof as fully to all intents and purposes as though such Authenticating Agent (or Authenticating Agents) had been expressly authorized to authenticate and deliver such Debt Securities, and Debt Securities so authenticated shall be entitled to the benefits of this Indenture and shall be valid and obligatory for all purposes as though authenticated by the Trustee hereunder. For all purposes of this Indenture, the authentication and delivery of Debt Securities by any Authenticating Agent pursuant to this Section 8.14 shall be deemed to be the authentication and delivery of such Debt Securities “by the Trustee”, and whenever this Indenture provides that “the Trustee shall authenticate and deliver” Debt Securities or that Debt Securities “shall have been authenticated and delivered by the Trustee”, such authentication and delivery by any Authenticating Agent shall be deemed to be authentication and delivery by the Trustee. Any such Authenticating Agent shall at all times be a Person organized and doing business under the laws of the United States of America or of any state or territory thereof or the District of Columbia, with a combined capital and surplus of at least \$50,000,000 and authorized under such laws to act as an authenticating agent, duly registered to act as such, if and to the extent required by applicable law and subject to supervision or examination by Federal or state authority. If such Person publishes reports of its condition at least annually pursuant to law or the requirements of such authority, then for the purposes of this Section 8.14 the combined capital and surplus of such Person shall be deemed to be its combined capital and surplus as set forth in its most recent report of condition so published. If at any time an Authenticating Agent shall cease to be eligible in accordance with the provisions of this Section 8.14, or to be duly registered if and to the extent required by applicable law and regulations, it shall resign immediately in the manner and with the effect herein specified in this Section 8.14.

Whenever reference is made in this Indenture to the authentication and delivery of Debt Securities of any series by the Trustee or the Trustee’s certificate of authentication, such reference shall be deemed to include authentication and delivery on behalf of the Trustee by its Authenticating Agent appointed with respect to the Debt Securities of such series and a certificate of authentication executed on behalf of the Trustee by its Authenticating Agent appointed with respect to the Debt Securities of such series.

Any Person into which any Authenticating Agent may be merged or converted or with which it may be consolidated, or any Person resulting from any merger, consolidation or conversion to which any Authenticating Agent shall be a party, or any Person succeeding to the authenticating agency business of any Authenticating Agent, shall be the successor of such Authenticating Agent hereunder, if such successor Person is otherwise eligible under this Section 8.14, without the execution or filing of any paper or any further act on the part of the parties hereto or such Authenticating Agent or such successor Person.

In case at the time such successor to any such agency shall succeed to such agency any of the Debt Securities shall have been authenticated but not delivered, any such successor to such Authenticating Agent may adopt the certificate of authentication of any predecessor Authenticating Agent and deliver such Debt Securities so authenticated; and in case at that time any of the Debt Securities shall not have been authenticated, any successor to any Authenticating Agent may authenticate such Debt Securities either in the name of any predecessor hereunder or in the name of the successor Authenticating Agent; and in all cases such certificate shall have the full force which it has anywhere in the Debt Securities or in this Indenture provided that the certificate of the predecessor Authenticating Agent shall have had such force; *provided, however*, that the right to adopt the certificate of authentication of any predecessor Authenticating Agent or to authenticate Debt Securities in the name of any predecessor Authenticating Agent shall apply only to its successor or successors by merger, conversion or consolidation.

Any Authenticating Agent may at any time resign as Authenticating Agent with respect to any series of Debt Securities by giving written notice of resignation to the Trustee and to the Company. The Trustee may at any time terminate the agency of any Authenticating Agent with respect to any series of Debt Securities by giving written notice of termination to such Authenticating Agent and to the Company. Upon receiving such a notice of resignation or upon such a termination, or in case at any time Authenticating Agent shall cease to be eligible under this Section 8.14, the Trustee may, and shall, upon request of the Company, promptly use its best efforts to appoint a successor Authenticating Agent.

Upon the appointment, at any time after the original issuance of any of the Debt Securities, of any successor, additional or new Authenticating Agent, the Trustee shall give written notice of such appointment to the Company and shall at the expense of the Company mail notice of such appointment to all Holders of Debt Securities of such series as the names and addresses of such Holders appear on the Debt Security Register.

Any successor Authenticating Agent with respect to any series of Debt Securities upon acceptance of its appointment hereunder shall become vested with all the rights, powers and duties of its predecessor hereunder, with like effect as though originally named as an Authenticating Agent herein with respect to such series. No successor Authenticating Agent shall be appointed unless eligible under the provisions of this Section 8.14 and duly registered if and to the extent required under applicable law and regulations.

Any Authenticating Agent by the acceptance of its appointment with respect to any series of Debt Securities shall be deemed to have agreed with the Trustee that: (a) it will perform and carry out the duties of an Authenticating Agent as herein set forth with respect to such series, including the duties to authenticate and deliver Debt Securities when presented to it in

connection with exchanges, registrations of transfer or redemptions thereof; (b) it will keep and maintain, and furnish to the Trustee from time to time as requested by the Trustee appropriate records of all transactions carried out by it as Authenticating Agent and will furnish the Trustee such other information and reports as the Trustee may reasonably require; (c) it is eligible for appointment as Authenticating Agent under this Section 8.14 and will notify the Trustee promptly if it shall cease to be so qualified; and (d) it will indemnify the Trustee against any loss, liability or expense incurred by the Trustee and will defend any claim asserted against the Trustee by reason of any acts or failures to act of the Authenticating Agent with respect to such series but it shall have no liability for any action taken by it at the specific written direction of the Trustee.

The Company agrees to pay to each Authenticating Agent from time to time reasonable compensation and expenses for its services, and the Trustee shall have no liability for such payments.

The provisions of Sections 8.02(a), (b), (c), (e) and (f), 8.03, 8.04, 8.06 (insofar as it pertains to indemnification), 9.01, 9.02 and 9.03 shall bind and inure to the benefit of each Authenticating Agent to the same extent that they bind and inure to the benefit of the Trustee.

If an appointment with respect to one or more series is made pursuant to this Section 8.14, the Debt Securities of such series may have endorsed thereon, in addition to the Trustee's certificate of authentication, an alternate certificate of authentication in the following form:

This is one of the Debt Securities of the series designated herein issued under the within-mentioned Indenture.

_____,
As Trustee

_____,
As Trustee

-OR-

By:
Authorized Officer

By: _____,
as Authenticating Agent

By:
Authorized Officer

SECTION 8.15. *Trustee's Application for Instructions from the Company.* Any application by the Trustee for written instructions from the Company may, at the option of the Trustee, set forth in writing any action proposed to be taken or omitted by the Trustee under this Indenture and the date on and/or after which such action shall be taken or such omission shall be effective. The Trustee shall not be liable for any action taken by, or omission of, the Trustee in accordance with a proposal included in such application on or after the date specified in such application (which date shall not be less than three Business Days after the date any officer of the Company actually receives such application, unless any such officer shall have consented in writing to any earlier date) unless prior to taking any such action (or the effective date in the case of an

omission), the Trustee shall have received written instructions in response to such application specifying the action to be taken or omitted.

ARTICLE 9. CONCERNING THE HOLDERS.

SECTION 9.01. *Action by Holders.* Whenever in this Indenture it is provided that the Holders of a specified percentage in aggregate principal amount of the Debt Securities of any series may take any action (including the making of any demand or request, the giving of any notice, consent or waiver or the taking of any other action) the fact that at the time of taking any such action the Holders of such specified percentage of such series have joined therein may be evidenced (a) by any instrument or any number of instruments of similar tenor executed by Holders of such series in person or by agent or proxy appointed in writing, or (b) by the record of the Holders of such series voting in favor thereof at any meeting of such Holders duly called and held in accordance with the provisions of Article Ten, or (c) by a combination of such instrument or instruments and any such record of such a meeting of Holders of such series.

SECTION 9.02. *Proof of Execution by Holders.* Subject to the provisions of Sections 8.01, 8.02 and 10.05, proof of the execution of any instrument by a Holder or such Holder's agent or proxy shall be sufficient if made in accordance with such reasonable rules and regulations as may be prescribed by the Trustee or in such manner as shall be satisfactory to the Trustee. The ownership of Debt Securities shall be provided by the Debt Security Register or by a certificate of the Debt Security Registrar with respect to a series of Debt Securities.

The record of any Holders' meeting shall be proved in the manner provided in Section 10.06.

SECTION 9.03. *Who Are Deemed Absolute Owners.* The Company, the Trustee with respect to a series of Debt Securities, and any agent of the Trustee or the Company under this Indenture may deem the Person in whose name such Debt Security shall be registered upon the Debt Security Register to be, and may treat such Person as, the absolute owner of such Debt Security (whether or not such Debt Security shall be overdue and notwithstanding any notation of ownership or other writing thereon made by anyone other than the Company, the Trustee or any such agent) for the purpose of receiving payment of or on account of the principal of and premium, if any, and interest on such Debt Security and for all other purposes; and neither the Company nor the Trustee nor any such agent shall be affected by any notice to the contrary.

SECTION 9.04. *Company-Owned Debt Securities Disregarded.* In determining whether the Holders of the requisite aggregate principal amount of Debt Securities of any series have concurred in any direction or consent under this Indenture, Debt Securities of such series which are owned by the Company or any other obligor upon such Debt Securities or any Affiliate of the Company or such other obligor (except in the case in which the Company or such other obligor or affiliate owns all Debt Securities Outstanding under the Indenture, or all Outstanding Debt Securities of each such series, as the case may be, without regard to this proviso) shall be disregarded and deemed not to be Outstanding for the purpose of any such determinations; *provided, however,* that for the purposes of determining whether the Trustee shall be protected in relying on any such direction or consent only such Debt Securities which a Responsible Officer

of the Trustee actually knows are so owned shall be so disregarded. Debt Securities so owned which have been pledged in good faith may be regarded as Outstanding notwithstanding this Section 9.04 if the pledgee shall establish to the satisfaction of the Trustee the right of the pledgee to vote such Debt Securities and that the pledgee is not a Person directly or indirectly controlling or controlled by or under direct or indirect common control with the Company or any such other obligor. Upon request of the Trustee, the Company shall furnish to the Trustee promptly an Officer's Certificate listing and identifying all Debt Securities of a series, if any, known by the Company to be owned or held by or for the account of the Company or any other obligor on such Debt Securities or by any Person directly or indirectly controlling or controlled by or under direct or indirect common control with the Company or any other obligor on such Debt Securities; and, subject to the provisions of Section 8.01, the Trustee shall be entitled to accept such Officer's Certificates as conclusive evidence of the facts therein set forth and of the fact that all such Debt Securities not listed therein are Outstanding for the purpose of any such determination.

SECTION 9.05. Revocation of Consents; Future Holders Bound. At any time prior to (but not after) the evidencing to the Trustee, as provided in Section 9.01, of the taking of any action by the Holders of the percentage in aggregate principal amount of the Debt Securities of any series specified in this Indenture in connection with such action, any Holder of a Debt Security which is shown by the evidence to be included in the Debt Securities the Holders of which have consented to or are bound by consents to such action, may, by filing written notice with the Trustee at the Corporate Trust Office and upon proof of holding as provided in Section 9.02, revoke such action so far as concerns such Debt Security. Except as aforesaid any such action taken by the Holder of any Debt Security shall be conclusive and binding upon such Holder and upon all future Holders and owners of such Debt Security and of any Debt Security issued on transfer thereof or in exchange or substitution therefor, irrespective of whether or not any notation in regard thereto is made upon any such Debt Security. Any action taken by the Holders of the percentage in aggregate principal amount of the Debt Securities specified in this Indenture in connection with such action shall be conclusively binding upon the Company, the Trustee and the Holders of all of the Debt Securities affected by such action.

ARTICLE 10. HOLDERS' MEETINGS.

SECTION 10.01. Purposes of Meetings. A meeting of Holders of the Debt Securities of all or any series may be called at any time and from time to time pursuant to the provisions of this Article Ten for any of the following purposes:

- (a) to give any notice to the Company or to the Trustee with respect to such series, or to give any directions to the Trustee, or to consent to the waiving of any default hereunder and its consequences, or to take any other action authorized to be taken by Holders pursuant to any of the provisions of Article Seven;
- (b) to remove the Trustee and nominate a successor trustee pursuant to the provisions of Article Eight;

(c) to consent to the execution of an indenture or indentures supplemental hereto pursuant to the provisions of Section 11.02; or

(d) to take any other action authorized to be taken by or on behalf of the Holders of any specified aggregate principal amount of the Debt Securities of all or any series, as the case may be, under any other provision of this Indenture or under applicable law.

SECTION 10.02. *Call of Meetings by Trustee.* The Trustee may at any time call a meeting of Holders of Debt Securities of all or any series to take any action specified in Section 10.01, to be held at such time and at such place as the Trustee shall determine. Notice of every meeting of the Holders of Debt Securities of all or any series, setting forth the time and place of such meeting and in general terms the action proposed to be taken at such meeting, shall be mailed by the Trustee to Holders of Debt Securities of each series that may be affected by the action proposed to be taken at such meeting at their addresses as they shall appear on the Debt Security Register. Such notice shall be mailed not less than 20 nor more than 90 days prior to the date fixed for the meeting.

SECTION 10.03. *Call of Meetings by Company or Holders.* In case at any time the Company, pursuant to a resolution by the Board of Directors, or the Holders of at least 10% in aggregate principal amount of the Debt Securities then Outstanding of each series that may be affected by the action proposed to be taken shall have requested the Trustee to call a meeting of such Holders, by written request setting forth in reasonable detail the action proposed to be taken at the meeting, and the Trustee shall not have mailed the notice of such meeting within 20 days after receipt of such request, then the Company or such Holders may determine the time and place for such meeting and may call such meeting to take any action authorized in Section 10.01, by mailing notice thereof as provided in Section 10.02.

SECTION 10.04. *Qualifications for Voting.* To be entitled to vote at any meeting of Holders of Debt Securities a person shall (a) be a Holder of one or more Debt Securities of a series affected by the action proposed to be taken or (b) be a Person appointed by an instrument in writing as proxy by a Holder of one or more such Debt Securities. The rights of Holders of Debt Securities to have their votes counted shall be subject to the provision in the definition of “Outstanding” in Section 1.01. The only Persons who shall be entitled to be present or to speak at any meeting of Holders of Debt Securities shall be the Persons entitled to vote at such meeting and their counsel, any representatives of the Trustee and its counsel and any representatives of the Company and its counsel.

SECTION 10.05. *Regulations.* Notwithstanding any other provisions of this Indenture, the Trustee may make such reasonable regulations as it may deem advisable for any meeting of Holders of Debt Securities, in regard to proof of the holding of Debt Securities and of the appointment of proxies, and in regard to the appointment and duties of inspectors of votes, the submission and examination of proxies, certificates and other evidence of the right to vote, and such other matters concerning the conduct of the meeting as it shall think fit. Except as otherwise permitted or required by any such regulation, the holding of Debt Securities shall be proved in the manner specified in Section 9.02 and the appointment of any proxy shall be proved in the manner specified in said Section 9.02 or by having the signature of the Person executing the proxy witnessed or guaranteed by any bank, broker or trust company.

The Trustee shall, by an instrument in writing, appoint a temporary chairman of the meeting, unless the meeting shall have been called by the Company or by Holders of Debt Securities as provided in Section 10.03, in which case the Company or the Holders of Debt Securities calling the meeting, as the case may be, shall in like manner appoint a temporary chairman. A permanent chairman and a secretary of the meeting shall be elected by vote of the Holders of a majority in aggregate principal amount of the Debt Securities represented at the meeting and entitled to vote.

Subject to the provisions of Section 9.04, at any meeting each Holder of a Debt Security of a series entitled to vote at such meeting or proxy shall be entitled to one vote for each \$1,000 principal amount of Debt Securities of such series held or represented by such Holder; *provided, however*, that no vote shall be cast or counted at any meeting in respect of any Debt Security challenged as not Outstanding and ruled by the chairman of the meeting to be not Outstanding. The chairman of the meeting shall have no right to vote except as a Holder of Debt Securities of such series or proxy therefor. Any meeting of Holders of Debt Securities duly called pursuant to the provisions of Section 10.02 or 10.03 may be adjourned from time to time and the meeting may be held as so adjourned without further notice.

At any meeting of Holders of Debt Securities, the presence of Persons holding or representing Debt Securities in an aggregate principal amount sufficient to take action upon the business for the transaction of which such meeting was called shall be necessary to constitute a quorum; but, if less than quorum be present, the Persons holding or representing a majority of the Debt Securities represented at the meeting may adjourn such meeting with the same effect, for all intents and purposes, as though a quorum had been present.

SECTION 10.06. *Voting.* The vote upon any resolution submitted to any meeting of Holders of Debt Securities shall be by written ballots on which shall be subscribed the signatures of the Holders of Debt Securities entitled to vote at such meeting or of their representatives by proxy, and the letter or letters, serial number or numbers or other distinguishing marks of the Debt Securities held or represented by each such Holder. The permanent chairman of the meeting shall appoint two inspectors of votes who shall count all votes cast at the meeting for or against any resolution and who shall make and file with the secretary of the meeting their verified written reports in duplicate of all votes cast at the meeting. A record in duplicate of the proceedings of each meeting of Holders of Debt Securities shall be prepared by the secretary of the meeting and there shall be attached to said record the original reports of the inspectors of votes on any vote by ballot taken thereat and affidavits by one or more persons having knowledge of the facts setting forth a copy of the notice of the meeting and showing that said notice was mailed as provided in Section 10.02. The record shall be signed and verified by the affidavits of the permanent chairman and secretary of the meeting and one of the duplicates shall be delivered to the Company and the other to the Trustee to be preserved by the Trustee, the latter to have attached thereto the ballots voted at the meeting.

Any record so signed and verified shall be conclusive evidence of the matters therein stated.

SECTION 10.07. *No Delay of Rights by Meeting.* Nothing in this Article Ten contained shall be deemed or construed to authorize or permit, by reason of any call of a meeting of

Holders of Debt Securities of any or all series or any rights expressly or impliedly conferred hereunder to make such call, any hindrance or delay in the exercise of any right or rights conferred upon or reserved to the Trustee or to the Holders of Debt Securities under any of the provisions of this Indenture or of the Debt Securities.

**ARTICLE 11.
SUPPLEMENTAL INDENTURES.**

SECTION 11.01. *Supplemental Indentures without Consent of Holders.* The Company, when authorized by a Board Resolution, and the Trustee may from time to time and at any time enter into an indenture or indentures supplemental hereto (which shall conform to the provisions of the Trust Indenture Act of 1939 as in force at the date of the execution thereof) for one or more of the following purposes:

- (a) to evidence the succession of another Person to the Company, or successive successions, and the assumption by the successor Person of the covenants, agreements and obligations of the Company pursuant to Articles Five and Twelve hereof;
- (b) to add to the covenants of the Company such further covenants, restrictions, conditions or provisions as the Board of Directors shall consider to be for the protection of the Holders of Debt Securities of any or all series, and to make the occurrence, or the occurrence and continuance, of a default in any of such additional covenants, restrictions, conditions or provisions a default or an Event of Default with respect to such series permitting the enforcement of all or any of the several remedies provided in this Indenture as herein set forth; *provided, however*, that in respect of any such additional covenant, restriction or condition, such supplemental indenture may provide for a particular period of grace after default (which period may be shorter or longer than that allowed in the case of other defaults) or may provide for an immediate enforcement upon such default or may limit the remedies available to the Trustee upon such default;
- (c) to cure any ambiguity or to correct or supplement any provision contained herein or in any supplemental indenture which may be defective or inconsistent with any other provision contained herein or in any supplemental indenture or to make any changes hereto that are required by law;
- (d) to convey, transfer, assign, mortgage or pledge any property to or with the Trustee;
- (e) to make such other provisions in regard to matters or questions arising under this Indenture as shall not adversely affect the interests of the Holders of the Debt Securities and to make any change that would provide additional rights or benefits to the Holders of Debt Securities of any or all series or that does not adversely affect the legal rights under this Indenture of any such Holder of Debt Securities;
- (f) to evidence and provide for the acceptance of appointment by another Person as a successor Trustee hereunder with respect to one or more series of Debt Securities and to add to or change any of the provisions of this Indenture as shall be necessary to provide for or facilitate the administration of the trusts hereunder by more than one Trustee, pursuant to Section 8.11;

(g) to modify, amend or supplement this Indenture in such a manner as to permit the qualification of any indenture supplemental hereto under the Trust Indenture Act of 1939 as then in effect, except that nothing herein contained shall permit or authorize the inclusion in any indenture supplemental hereto of the provisions referred to in Section 316(a)(2) of the Trust Indenture Act of 1939;

(h) to provide for the issuance under this Indenture of Debt Securities in coupon form (including Debt Securities registrable as to principal only) and to provide for exchangeability of such Debt Securities with Debt Securities of the same series issued hereunder in fully registered form and to make all appropriate changes for such purpose;

(i) to change or eliminate any of the provisions of this Indenture, *provided, however*, that any such change or elimination shall become effective only when there is no Debt Security Outstanding of any series created prior to the execution of such supplemental indenture which is entitled to the benefit of such provision; or

(j) to establish any additional form of Debt Security, as permitted by Section 2.02, and to provide for the issuance of any additional series of Debt Securities, as permitted by Section 3.01, and to set forth the terms thereof.

The Trustee is hereby required to join with the Company in the execution of any such supplemental indenture, to make any further appropriate agreements and stipulations which may be therein contained and to accept the conveyance, transfer, assignment, mortgage or pledge of any property thereunder, but the Trustee shall not be obligated to enter into any such supplemental indenture which affects the Trustee's own rights, duties or immunities under this Indenture or otherwise.

Any supplemental indenture authorized by the provisions of this Section 11.01 may be executed by the Company and the Trustee without the consent of the Holders of any of the Debt Securities at the time Outstanding, notwithstanding any of the provisions of Section 11.02.

SECTION 11.02. *Supplemental Indentures with Consent of Holders.* With the consent (evidenced as provided in Section 9.01) of the Holders of greater than 50% in aggregate principal amount of the Outstanding Debt Securities of each series affected by such supplemental indenture (all such Holders voting as a single class), by act of said Holders delivered to the Company and the Trustee, the Company, when authorized by a Board Resolution, and the Trustee may from time to time and at any time enter into an indenture or indentures supplemental hereto for the purpose of adding any provisions to or changing in any manner or eliminating any of the provisions of this Indenture or of any supplemental indenture or of modifying in any manner the rights of the Holders of the Debt Securities of each series under this Indenture; *provided, however*, that no such supplemental indenture shall, without the consent of the Holders all of the Outstanding Debt Securities of each series affected, (a) extend the fixed maturity of any Debt Security of such series, or reduce the rate or extend the time of payment of interest thereon, or reduce the principal amount thereof or any premium thereon, or make the principal thereof or interest or premium thereon payable in any coin or currency other than that provided in the Debt Securities of such series or (b) reduce the aforesaid percentage of Debt Securities of a series, the Holders of which are required to consent (1) to any such supplemental indenture, (2) to rescind

and annul a declaration that any Debt Securities of such series are due and payable as a result of the occurrence of an Event of Default, (3) to waive any past default under the Indenture and its consequences or (4) to waive compliance with Sections 5.02, 5.04 (other than 5.04(a)(1) and (2)) or 5.05, or with any additional covenant, agreement or condition contained in a Board Resolution or Officer's Certificate establishing such series of Debt Securities, any indenture supplemental hereto applicable to such series or any Debt Security of such series.

Upon the Trustee's receipt of a Company Request, accompanied by a copy of a Board Resolution certified by its Secretary or Assistant Secretary authorizing the execution of any such supplemental indenture, and upon the filing with the Trustee of evidence of the consent of Holders of Debt Securities as aforesaid, the Trustee shall join with the Company in the execution of such supplemental indenture unless such supplemental indenture affects the Trustee's own rights, duties or immunities under this Indenture or otherwise, in which case the Trustee may in its discretion, but shall not be obligated to, enter into such supplemental indenture.

It shall not be necessary for the consent of the Holders of Debt Securities under this Section 11.02 to approve the particular form of any proposed supplemental indenture, but it shall be sufficient if such consent shall approve the substance thereof.

SECTION 11.03. *Effect of Supplemental Indentures.* Upon the execution of any supplemental indenture pursuant to the provisions of this Article Eleven, this Indenture shall be and be deemed to be modified and amended in accordance therewith and the respective rights, limitation of rights, obligations, duties and immunities under this Indenture of the Trustee, the Company and the Holders of Debt Securities shall thereafter be determined, exercised and enforced hereunder subject in all respects to such modifications and amendments and all the terms and conditions of any such supplemental indenture shall be and be deemed to be part of the terms and conditions of this Indenture for any and all purposes.

SECTION 11.04. *Notation on Debt Securities.* Debt Securities authenticated and delivered after the execution of any supplemental indenture pursuant to the provisions of this Article Eleven may bear a notation in form approved by the Trustee as to any matter provided for in such supplemental indenture. If the Company or the Trustee shall so determine, new Debt Securities of any series so modified as to conform, in the opinion of the Trustee and the Board of Directors, to any modification of this Indenture contained in any such supplemental indenture may be prepared and executed by the Company, authenticated by the Trustee and delivered in exchange for the Outstanding Debt Securities of such series.

SECTION 11.05. *Evidence of Compliance of Supplemental Indenture to be Furnished Trustee.* The Trustee, subject to the provisions of Sections 8.01 and 8.02, shall receive, and shall be fully protected in relying upon, an Officers' Certificate and an Opinion of Counsel as conclusive evidence that the execution of such amendment or supplemental indenture is authorized or permitted by this Indenture (including, but not limited to this Article Eleven), that all conditions precedent thereto have been met or waived, that such amendment or supplemental indenture is not inconsistent herewith, and that it will be valid and binding upon the Company in accordance with its terms.

ARTICLE 12.
CONSOLIDATION, MERGER, SALE AND CONVEYANCE.

SECTION 12.01. *Company May Consolidate, etc., on Certain Terms.* Nothing contained in this Indenture or in any of the Debt Securities shall prevent any consolidation or merger of the Company with or into any other Person (whether or not affiliated with the Company), or successive consolidations or mergers in which the Company or its successor or successors shall be a party or parties, or shall prevent any sale, conveyance or lease of all or substantially all of the property of the Company to any other Person (whether or not affiliated with the Company) authorized to acquire and operate the same; provided, however, and the Company hereby covenants and agrees, that any such consolidation, merger, sale, conveyance or lease shall be upon the condition that (a) immediately after such consolidation, merger, sale, conveyance or lease the Person (whether the Company or such other Person) formed by or surviving any such consolidation or merger, or to which such sale, conveyance or lease shall have been made, shall not be in default in the performance or observance of any of the terms, covenants and conditions of this Indenture to be kept or performed by the Company; (b) the Person (if other than the Company) formed by or surviving any such consolidation or merger or to which such sale, conveyance or lease shall have been made, shall be a Person organized under the laws of the United States of America or any state thereof; and (c) the due and punctual payment of the principal of and premium, if any, and interest on all of the Debt Securities, according to their tenor, and the due and punctual performance and observance of all of the covenants and conditions of this Indenture to be performed or observed by the Company, shall be expressly assumed, by supplemental indenture satisfactory in form to the Trustee, executed and delivered to the Trustee by the Corporation (if other than the Company) formed by such consolidation, or into which the Company shall have been merged, or by the Person which shall have acquired or leased such property.

SECTION 12.02. *Successor Entity to be Substituted.* In case of any such consolidation, merger, sale, conveyance or lease and upon the assumption by the successor Person, by supplemental indenture, executed and delivered to the Trustee and satisfactory in form to the Trustee, of the due and punctual payment of the principal of and premium, if any, and interest on all of the Debt Securities and the due and punctual performance and observance of all of the covenants and conditions of this Indenture to be performed or observed by the Company, such successor Person shall succeed to and be substituted for the Company, with the same effect as if it had been named herein as the party of the first part, and (except in the event of a conveyance by way of lease) the predecessor Person shall be relieved of any further obligation under this Indenture and the Debt Securities.

In case of any such consolidation, merger, sale, conveyance or lease such changes in phraseology and form (but not in substance) may be made in the Debt Securities thereafter to be issued as may be appropriate.

SECTION 12.03. *Opinion of Counsel to Be Given Trustee.* The Trustee, subject to Sections 8.01 and 8.02, shall receive an Opinion of Counsel as conclusive evidence that any such consolidation, merger, sale conveyance or lease and any such assumption complies with the provisions of this Article Twelve and that all conditions precedent herein provided relating to such transactions have been complied with.

ARTICLE 13.
SATISFACTION AND DISCHARGE OF INDENTURE.

SECTION 13.01. *Satisfaction, Discharge and Defeasance of Debt Securities of any Series.*
The Company shall be deemed to have paid and discharged the entire indebtedness on all the Debt Securities of a series, the provisions of this Indenture (except as to (x) the rights of Holders of Debt Securities of such series to receive, from the money, in the currency required, and Government Obligations deposited with the Trustee pursuant to Section 13.02(a) or the interest and principal received by the Trustee in respect of such Government Obligations, payment of the principal of (and premium, if any) and any installment of principal of (and premium, if any) or interest on such Debt Securities on the Stated Maturities thereof or upon the Redemption Dates for Debt Securities required to be redeemed pursuant to any mandatory sinking fund or analogous provisions relating to Debt Securities of that series or pursuant to any call for redemption relating to Debt Securities of that series, (y) the Company's rights and obligations with respect to such Debt Securities under Sections 3.06, 3.07, 13.03 and 13.04, 5.02, 5.04, 6.01, 8.06, 8.10, 8.11 and, to the extent applicable to such series, Article Four, so long as the principal of (and premium, if any) and interest on the Debt Securities of such series remain unpaid and, thereafter, only the Company's rights and obligations under Sections 5.04, 8.06, 13.03 and 13.04, and (z) the rights, powers, trusts, duties and immunities of the Trustee with respect to the Debt Securities of such series) as it relates to such Debt Securities shall no longer be in effect, and the Trustee, at the expense of the Company, shall, upon Company Request, execute proper instruments acknowledging the same if:

(a) (1) all Debt Securities of such series therefore authenticated and delivered (other than (A) Debt Securities which have been destroyed, lost or stolen and which have been replaced or paid as provided in Section 3.07 and (B) Debt Securities for whose payment money has theretofore been deposited in trust or segregated and held in trust by the Company and thereafter repaid to the Company or discharged from such trust, as provided in Sections 13.03 and 13.04) have been delivered to the Trustee for cancellation;

(2) the Company has paid or caused to be paid in the currency required all other sums payable under this Indenture in respect of the Debt Securities of such series; and

(3) the Company has delivered to the Trustee an Officer's Certificate, an Opinion of Counsel and a written opinion of independent public accountants, each stating that all conditions precedent herein provided for relating to the satisfaction of the entire indebtedness of all Debt Securities of any such series and the discharge of the Indenture as it relates to such Debt Securities have been complied with; or

(b) (1) all Debt Securities of such series not theretofore delivered to the Trustee for cancellation (A) have become due and payable, or (B) will become due and payable at their Stated Maturity within one year, or (C) are to be called for redemption within one year under arrangements satisfactory to the Trustee for the giving of notice of redemption by the Trustee in the name, and at the expense of the Company;

(2) the condition described in paragraph (a) of Section 13.02 has been satisfied; and

(3) the conditions described in paragraphs (a)(2) and (a)(3) of this Section 13.01 have been satisfied; or

(c) (1) the conditions referred to in paragraphs (b)(2) and (b)(3) of this Section 13.01 have been satisfied;

(2) no Event of Default or event which with notice or lapse of time would become an Event of Default shall have occurred and be continuing on the date of the deposit referred to in paragraph (a) of Section 13.02 or on the ninety-first day after the date of such deposit; *provided, however,* that should that condition fail to be satisfied on or before such ninety-first day, the Trustee shall promptly, upon satisfactory receipt of evidence of such failure, return such deposit to the Company;

(3) the Company has either (A) delivered to the Trustee an opinion of counsel of a nationally-recognized independent tax counsel to the effect that Holders of the Debt Securities of such series will not recognize income, gain or loss for Federal income tax purposes as a result of such deposit and the satisfaction, discharge and defeasance contemplated by this paragraph (c) of this Section 13.01 and will be subject to Federal income tax on the same amounts and in the same manner and at the same times as would have been the case if such deposit and defeasance had not occurred or (B) the Company shall have received from, or there shall have been published by, the United States Internal Revenue Service a ruling to the effect stated in subsection (A) of this Section 13.01(c)(3); and

(4) the Company has received an Opinion of Counsel to the effect that the satisfaction, discharge and defeasance contemplated by this Section 13.01 will not result in the delisting of the Debt Securities of that series from any nationally-recognized securities exchange on which they are listed.

SECTION 13.02. *Defeasance of Debt Securities of any Series.* The provisions of this Indenture (except as to (x) the rights of Holders of Debt Securities of any series to receive, from the money, in the currency required, and Government Obligations deposited with the Trustee pursuant to paragraph (a) below or the interest and principal received by the Trustee in respect of such Government Obligations, payment of the principal of (and premium, if any) and any installment of principal of (and premium, if any) or interest on such Debt Securities on the Stated Maturities thereof or upon the Redemption Dates for Debt Securities required to be redeemed pursuant to any mandatory sinking or analogous provisions relating to Debt Securities of that series or pursuant to any call for redemption relating to Debt Securities of that series, (y) the Company's rights and obligations with respect to such Debt Securities under Sections 3.06, 3.07, 13.03, 13.04, Article Seven (other than subsection (d) of Section 7.01), Sections 5.01, 5.02, 5.04, 6.01, 8.06, 8.10, 8.11 and, to the extent applicable to such series, Article Four, so long as the principal of (and premium, if any) and interest on the Debt Securities of such series remain unpaid and, thereafter, only the Company's rights and obligations under Sections 5.04, 8.06, 13.03 and 13.04, and (z) the rights, powers, trusts, duties and immunities of the Trustee with respect to the Debt Securities of such series) as it relates to Debt Securities of any series shall no longer be in effect, and the Trustee, at the expense of the Company shall, upon Company Request, execute proper instruments acknowledging the same if:

(a) the Company has deposited or caused to be deposited with the Trustee as trust funds in trust for the purpose (1) the Dollars of Foreign Currency, as applicable, in an amount, or (2) Government Obligations which through the payment of interest and principal in respect thereof in accordance with their terms will provide on or before the due date of any payment in respect of such series of Debt Securities in an amount, or (3) a combination thereof, sufficient, after payment of all Federal, state and local taxes in respect thereof payable by the Trustee, in the opinion of a nationally-recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, to pay and discharge (A) the principal of (and premium, if any) and each installment of principal (and premium, if any) and interest on the Outstanding Debt Securities of that series on the Stated Maturity of such principal or installment of principal or interest and (B) any mandatory sinking fund payments or analogous payments or payments pursuant to any call for redemption applicable to Debt Securities of such series on the day on which such payments are due and payable in accordance with the terms of the Indenture and such Debt Securities;

(b) no Event of Default or event which with notice or lapse of time would become an Event of Default shall have occurred and be continuing on the date of such deposit;

(c) the interest of the Holders in such deposit shall have been duly perfected under the applicable provisions of the Uniform Commercial Code; and

(d) the Company has delivered to the Trustee an Officer's Certificate and an Opinion of Counsel, each stating that all conditions precedent herein provided for relating to the defeasance contemplated by this Section have been complied with.

SECTION 13.03. *Application of Trust Funds; Indemnification.* (a) Subject to the provisions of Section 13.04, all money and Government Obligations deposited with the Trustee pursuant to Section 13.01 or 13.02 and all money received by the Trustee in respect of Government Obligations deposited with the Trustee, shall be held in trust and applied by it, in accordance with the provisions of the Debt Securities and this Indenture, to the payment, either directly or through any paying agent (including the Company acting as its own paying agent) as the Trustee may determine, to the Persons entitled thereto, of the principal (and premium, if any) and interest for whose payment such money and Government Obligations have been deposited with or received by the Trustee as contemplated by Section 13.01 or 13.02.

(b) The Company shall pay and shall indemnify the Trustee against any tax, fee or other charge imposed on or assessed against Government Obligations deposited pursuant to Section 13.01 or 13.02 or the interest and principal received in respect of such obligations, other than any such tax, fee or other charge payable by or on behalf of Holders. The Company shall be entitled to prompt notice of an assessment or the commencement of any proceeding for which indemnification may be sought hereunder and, at its election, to contest such assessment or to participate in, assume the defense of, or settle such proceeding.

(c) The Trustee shall deliver or pay to the Company from time to time upon Company Request any Government Obligations or money held by it as provided in Section 13.01 or 13.02 which, in the opinion of a nationally-recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, are then in excess of the

amount thereof which then would have been required to be deposited for the purpose for which such obligations or money were deposited or received.

(d) If the Trustee is unable to apply any money or Government Obligations in accordance with this Section 13.03 by reason of any legal proceeding or by reason of any order or judgment of any court or governmental authority enjoining, restraining or otherwise prohibiting such application, the Company's obligations under this Indenture and the Debt Securities, if any, of such series shall be revived and reinstated as though no deposit had occurred pursuant to Section 13.01 or Section 13.02, as the case may be, until such time as the Trustee is permitted to apply all such money or Government Obligations in accordance with this Section 13.03; provided, however, that if the Company has made any payment of interest on or principal of (and premium, if any) on any Debt Securities, if any, of such series because of the reinstatement of its obligations, the Company shall be subrogated to the rights of the Holders of such series of Debt Securities, if any, to receive such payment from the money or Government Obligations held by the Trustee.

SECTION 13.04. *Return of Unclaimed Moneys.* Any moneys deposited with or paid to the Trustee or any paying agent for payment of the principal of and premium, if any, or interest on Debt Securities and not applied but remaining unclaimed by the Holders of Debt Securities for two years after the date upon which the principal of and premium, if any, or interest on such Debt Securities, as the case may be, shall have become due and payable, shall be repaid to the Company by the Trustee or such paying agent on demand; and the Holder of any of the Debt Securities entitled to receive such payment shall thereafter look only to the Company for any payment thereof.

SECTION 13.05. *Reinstatement.* If the Trustee is unable to apply any money or Government Obligations in accordance with Sections 13.01 or 13.02 by reason of any legal proceeding or by reason of any order or judgment of any court or governmental authority enjoining, restraining or otherwise prohibiting such application, the Company's obligations under this Indenture and the Debt Securities shall be revived and reinstated as though no deposit had occurred pursuant to Sections 13.01 or 13.02 until such time as the Trustee is permitted to apply all such money or Government Obligations in accordance with Sections 13.01 or 13.02; provided that, if the Company has made any payment of principal of or interest on the Debt Securities because of the reinstatement of its obligations, the Company shall be subrogated to the rights of the Holders of such Debt Securities to receive such payment from the money or Government Obligations held by the Trustee.

ARTICLE 14.
IMMUNITY OF INCORPORATORS, SHAREHOLDERS,
OFFICERS AND DIRECTORS.

SECTION 14.01. *Indenture and Debt Securities Solely Obligations of the Company.* No recourse under or upon any obligation, covenant or agreement of this Indenture, any supplemental indenture, or of any Debt Security, or for any claim based thereon or otherwise in respect thereof, shall be had against any incorporator, organizer, shareholder, member, owner, officer, director, manager or employee, as such, past, present or future, of the Company or any Subsidiary or of any predecessor or successor Person, either directly or through the Company,

whether by virtue of any constitution, statute or rule of law, or by the enforcement of any assessment or penalty or otherwise; it being expressly understood that this Indenture and the obligations issued hereunder are solely obligations of the Company, and that no such personal liability whatever shall attach to, or is or shall be incurred by, any incorporator, organizer, shareholder, member, owner, officer, director, manager or employee, as such, of the Company or of any predecessor or successor Person, or any of them, because of the creation of the indebtedness hereby authorized, or under or by reason of the obligations, covenants or agreements contained in this Indenture, or in any of the Debt Securities or implied thereby; and that any and all such personal liability, either at common law or in equity or by constitution or statute of, and any and all such rights and claims against, every such incorporator, organizer, shareholder, member, owner, officer, director, manager or employee, as such, because of the creation of the indebtedness hereby authorized, or under or by reason of the obligations, covenants or agreements contained in this Indenture or in any of the Debt Securities or implied thereby, are hereby expressly waived and released as a condition of, and as a consideration for, the execution of this Indenture and the issue of such Debt Securities.

ARTICLE 15.
MISCELLANEOUS PROVISIONS.

SECTION 15.01.*Provisions Binding on Successors of the Company.* All of the covenants, stipulations, promises and agreements in this Indenture contained by the Company shall bind its successors and assigns whether so expressed or not.

SECTION 15.02.*Indenture for Sole Benefit of Parties and Holders of Debt Securities.* Nothing in this Indenture or in the Debt Securities, expressed or implied, shall give or be construed to give to any Person, firm or corporation, other than the parties hereto, any agent of the Trustee or the Company under this Indenture and the Holders of the Debt Securities, any legal or equitable right, remedy or claim under or in respect of this Indenture, or under any covenant, condition or provision herein contained; all such covenants, conditions and provisions being, subject to the provisions of Articles Twelve and Fourteen, for the sole benefit of the parties hereto, any agent of the Trustee or the Company under this Indenture and the Holders of the Debt Securities.

SECTION 15.03.*Addresses for Notices, etc.* Any notice or demand which by any provision of this Indenture is required or permitted to be given or served by the Trustee or by the Holders of Debt Securities on the Company may be given or served by being deposited, registered or certified mail postage prepaid, in a post office letter box in the United States addressed (until another address is filed by the Company with the Trustee) to the Company, Advanced Energy Industries, Inc., 1595 Wynkoop St., Denver, CO 80202, Attention: General Counsel. Any notice, direction, request or demand by any Holder of a Debt Security or the Company to or upon the Trustee shall be deemed to have been sufficiently given or made, for all purposes, if given or made in writing at the Corporate Trust Office of the Trustee, addressed to the attention of its Corporate Trust Department. Any notice, report or other instrument required by any of the provisions of this Indenture to be given by the Trustee to the Holders of Debt Securities of any or all series shall be deemed to have been sufficiently given, for all purposes, when mailed by first class mail.

SECTION 15.04.*New York Contract; Waiver of Jury Trial.* This Indenture and the Debt Securities shall for all purposes be construed in accordance with and governed by the laws of the State of New York. EACH OF THE PARTIES HERETO HEREBY IRREVOCABLY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY AND ALL RIGHT TO TRIAL BY JURY IN ANY ACTION OR PROCEEDING ARISING OUT OF OR RELATING TO THIS INDENTURE, THE DEBT SECURITIES, OR THE TRANSACTIONS CONTEMPLATED THEREBY.

SECTION 15.05.*Evidence of Compliance with Conditions Precedent.* Upon any Company request to the Trustee to take any action under any of the provisions of this Indenture, the Company shall furnish to the Trustee an Officer's Certificate stating that all conditions precedent, if any (including any covenant, compliance with which constitutes a condition precedent) provided for in this Indenture relating to the proposed action have been complied with and an Opinion of Counsel stating that, in the opinion of such counsel, all such conditions precedent have been complied with, except that in the case of any such application or demand as to which the furnishing of such document is specifically required by any provision of this Indenture relating to such particular application or demand, no additional certificate or opinion need be furnished.

Each certificate or opinion provided for in this Indenture and delivered to the Trustee with respect to compliance with a condition or covenant provided for in this Indenture shall include (a) a statement that the Person making such certificate or opinion has read such covenant or condition; (b) a brief statement as to the nature and scope of the examination or investigation upon which the statements or opinions contained in such certificate or opinion are based; (c) a statement that, in the opinion of such Person, he or she has made such examination or investigation as is necessary to enable such Person to express an informed opinion as to whether or not such covenant or condition has been complied with; and (d) a statement as to whether or not, in the opinion of such Person, such condition or covenant has been complied with.

SECTION 15.06.*Legal Holidays.* In any case where the date of maturity of interest on or principal of or premium, if any, on any series of Debt Securities or the date fixed for redemption of any Debt Security or Debt Securities will be a legal holiday or a day on which banking institutions are legally authorized or obligated to close in New York or any other location where a paying agent appointed pursuant to Section 5.02 is located, then payment of such interest on or principal of and premium, if any, on such Debt Securities need not be made by such paying agent on such date but may be made by such paying agent on the next succeeding business day that is not a day in such location that is either a legal holiday or a day on which banking institutions are legally authorized or obligated to close, with the same force and effect as if made on such date of maturity or the date fixed for redemption and no interest shall accrue for the period from and after such prior date.

SECTION 15.07.*Trust Indenture Act of 1939 to Control.* If any provision hereof limits, qualifies or conflicts with the duties imposed by any of Sections 310 through 317 of the Trust Indenture Act of 1939, by the operation of Section 318(c) thereof, such imposed duties shall control, except as, and to the extent, expressly excluded from this Indenture, as permitted by the Trust Indenture Act of 1939. If any provision of this Indenture modifies or excludes any provision of the Trust Indenture Act of 1939 that may be so modified or excluded, the latter

provision shall be deemed to apply to this Indenture as so modified or to be excluded, as the case may be.

SECTION 15.08. *Table of Contents, Headings, etc.* The table of contents and the titles and headings of the articles and sections of this Indenture have been inserted for convenience of reference only, are not to be considered a part hereof, and shall in no way modify or restrict any of the terms or provisions hereof.

SECTION 15.09. *Determination of Principal Amount.* In determining whether the Holders of the requisite principal amount of Outstanding Debt Securities of any series have given any request, demand, authorization, direction, notice, consent or waiver hereunder, or whether sufficient funds are available for redemption or for any other purpose, (a) the principal amount of an Original Issue Discount Debt Security that shall be deemed to be Outstanding for such purposes shall be the amount of the principal thereof that would be due and payable as of the date of such determination upon a declaration of acceleration of the maturity thereof pursuant to Section 7.01, (b) the principal amount of any Debt Securities denominated in a Foreign Currency that shall be deemed to be Outstanding for such purposes shall be determined by converting the Foreign Currency into Dollars at the Market Exchange Rate as of the date of such determination and (c) the principal amount of any Indexed Debt Security that shall be deemed to be Outstanding for such purposes shall be the amount of the principal face amount of such Indexed Debt Security at original issuance, unless otherwise provided in or pursuant to this Indenture.

SECTION 15.10. *Execution in Counterparts.* This Indenture may be executed in any number of counterparts, each of which shall be an original and such counterparts shall together constitute but one and the same instrument. [_____] hereby accepts the trusts in this Indenture declared and provided, upon the terms and conditions hereinabove set forth.

SECTION 15.11. *U.S.A. Patriot Act.* The parties hereto acknowledge that in accordance with Section 326 of the U.S.A. Patriot Act, the Trustee, like all financial institutions and in order to help fight the funding of terrorism and money laundering, is required to obtain, verify, and record information that identifies each person or legal entity that establishes a relationship or opens an account with the Trustee. The parties to this Indenture agree that they will provide the Trustee with such information as it may reasonably request in order for the Trustee to satisfy the requirements of the U.S.A. Patriot Act.

SECTION 15.12. *Force Majeure.* In no event shall the Trustee be responsible or liable for any failure or delay in the performance of its obligations hereunder arising out of or caused by, directly or indirectly, forces beyond its control, including, without limitation to the extent beyond its control, strikes, work stoppages, accidents, acts of war or terrorism, civil or military disturbances, nuclear or natural catastrophes or acts of God, and interruptions, loss or malfunctions of utilities, communications or computer (software and hardware) services; it being understood that the Trustee shall use reasonable efforts which are consistent with accepted practices in the banking industry to resume performance as soon as practicable under the circumstances.

[Signature Page Follows]

IN WITNESS WHEREOF, the parties hereto have caused this Indenture to be executed as of the day and year first written above.

ADVANCED ENERGY INDUSTRIES, INC.

By: _____
Name:
Title

[*], as Trustee

By: _____
Name:
Title

February 17, 2023

Advanced Energy Industries, Inc.
1595 Wynkoop Street, Suite 800
Denver, Colorado 80202

Ladies and Gentlemen:

We have acted as counsel for Advanced Energy Industries, Inc., a Delaware 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 the issuance and sale by the Company from time to time of an indeterminate amount of: (i) debt securities of the Company (the “Debt Securities”); (ii) shares of the Company’s common stock, par value \$0.001 per share (the “Common Stock”); (iii) shares of the Company’s preferred stock, par value \$0.001 per share (the “Preferred Stock”); (iv) warrants to purchase securities of the Company (the “Warrants”); (v) contracts to purchase shares of Common Stock or other securities of the Company (the “Purchase Contracts”); (vi) units, each comprised of a Purchase Contract and either debt obligations or other securities of the Company or debt obligations of third parties securing the holder’s obligation to purchase securities under the Purchase Contract (the “Purchase Units”); and (vii) units of the Company, each consisting of any interest in two or more securities of the types described in the Registration Statement, or a combination thereof (the “Units” and, together with the Debt Securities, the Common Stock, the Preferred Stock, the Warrants, the Purchase Contracts and the Purchase Units, 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 (each, a “Prospectus Supplement”).

As counsel to the Company in connection with the proposed issuance and sale of the 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 Certificate of Incorporation and Second Amended and Restated By-laws, each as amended to date; (iii) the Form of Indenture of the Company filed as an exhibit to the Registration Statement; (iv) resolutions of the Board of Directors of the Company relating to the registration of the Securities; and (v) such other proceedings, documents and records as we have deemed necessary to enable us to render this opinion.

In our examination of the above-referenced documents, we have assumed all electronic and manual signatures on all documents reviewed by us (including, without limitation, signatures delivered via electronic signature systems such as DocuSign, SecureDocs, or comparable electronic signature methods or systems) are genuine signatures of the purported signatories, 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 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 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 such 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; (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 Certificate of Incorporation, as amended, and not otherwise reserved for issuance; (ix) the warrant agreement, to be entered into between the Company and the warrant agent named therein, will be duly authorized, executed and delivered by the parties thereto (in proper form); and (x) the unit agreement, to be entered into between the Company and the unit agent named therein, will be duly authorized, executed and delivered by the parties thereto (in proper form).

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. All requisite action necessary to make any Debt Securities 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, shall have 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 shall 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 shall have been duly executed, authenticated and delivered in accordance with the terms and provisions of the underlying indenture; and

d. Such Debt Securities shall have been issued and sold 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.

2. All requisite action necessary to make any shares of Common Stock validly issued, fully paid and nonassessable will have been taken when:

a. The Company's Board of Directors, or a committee thereof duly authorized by the Board of Directors, shall have adopted appropriate resolutions to authorize the issuance and sale of the Common Stock; and

b. Such shares of Common Stock shall have been issued and sold 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. All requisite action necessary to make any shares of Preferred Stock validly issued, fully paid and nonassessable will have been taken when:

a. The Company's Board of Directors, or a committee thereof duly authorized by the Board of Directors, shall have adopted appropriate resolutions to establish the powers, designations, preferences and relative, participating, optional or other 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 the Preferred Stock, and to authorize the issuance and sale of such shares of Preferred Stock;

b. A Certificate of Designations with respect to the powers, designations, preferences and relative, participating, optional or other rights, if any, or the qualifications, limitations or restrictions, if any, and other terms of such shares shall have been filed with the Secretary of State of the State of Delaware in the form and manner required by law; and

c. Such shares of Preferred Stock shall have been issued and sold 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.

4. All requisite action necessary to make any Warrants 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, shall have 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 shall 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 shall have been duly executed and delivered;

d. Such Warrants shall have been duly executed and delivered in accordance with the terms and provisions of the applicable warrant agreement; and

e. Such Warrants shall have been issued and sold 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 action necessary to make any Purchase Contracts and Purchase Units 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, shall have taken action to approve and establish the terms of the Purchase Contracts and the documents evidencing and used in connection with the issuance and sale of the Purchase Units, and to authorize the issuance and sale of such Purchase Contracts and Purchase Units;

b. The terms of such Purchase Contracts and Purchase Units and of their issuance and sale shall 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 Purchase Contracts and Purchase Units shall have been duly executed and delivered in accordance with their respective terms and provisions; and

d. Such Purchase Contracts and Purchase Units shall have been issued and sold 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 action necessary to make any Units 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, shall have taken action to approve and establish the terms and form of such Units and the documents, including any unit agreements, evidencing and used in connection with the issuance and sale of the Units, and to authorize the issuance and sale of such Units;

b. The terms of such Units and of their issuance and sale shall 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 Units shall have been duly executed and delivered in accordance with the terms and provisions of the applicable unit agreement; and

d. Such Units shall have been issued and sold 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.

We express no opinion as to the laws of any jurisdiction other than the State of New York, the Delaware General Corporation Law and the federal laws of the United States. We assume no obligation to supplement this opinion letter if any applicable law changes after the date hereof or if we become aware of any fact that might change the opinions expressed herein after the date hereof.

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

Consent of Independent Registered Public Accounting Firm

We consent to the reference to our firm under the caption “Experts” in the Registration Statement (Form S-3) and related Prospectus of Advanced Energy Industries, Inc. for the registration of its debt securities, common stock, preferred stock, warrants, purchase contracts, purchase units, and units and to the incorporation by reference therein of our reports dated February 17, 2023, with respect to the consolidated financial statements of Advanced Energy Industries, Inc., and the effectiveness of internal control over financial reporting of Advanced Energy Industries, Inc., included in its Annual Report (Form 10-K) for the year ended December 31, 2022, filed with the Securities and Exchange Commission.

/s/ Ernst & Young LLP

Denver, Colorado
February 17, 2023

Exhibit 107

Calculation of Filing Fee Tables

Form S-3
(Form Type)

Advanced Energy Industries, Inc.
(Exact Name of Registrant as Specified in its Charter)

Table 1: Newly Registered and Carry Forward Securities

	Security Type	Security Class Title	Fee Calculation or Carry Forward Rule	Amount Registered	Proposed Maximum Offering Price Per Unit	Maximum Aggregate Offering Price	Fee Rate	Amount of Registration Fee	Carry Forward Form Type	Carry Forward File Number	Carry Forward Initial effective Date	Filing Fee Previously Paid In Connection with Unsold Securities to be Carried Forward
Newly Registered Securities												
Fees to Be Paid	Debt	Debt Securities (1)	Rule 456(b) and Rule 457(r) (2)	(3)	(3)	(3)	(2)	(2)				
	Equity	Common Stock, par value \$0.001 per share (1)	Rule 456(b) and Rule 457(r) (2)	(3)	(3)	(3)	(2)	(2)				
	Equity	Preferred Stock, par value \$0.001 per share (1)	Rule 456(b) and Rule 457(r) (2)	(3)	(3)	(3)	(2)	(2)				
	Other	Warrants (1)	Rule 456(b) and Rule 457(r) (2)	(3)	(3)	(3)	(2)	(2)				
	Other	Purchase Contracts (1)	Rule 456(b) and Rule 457(r) (2)	(3)	(3)	(3)	(2)	(2)				
	Other	Purchase Units (1)	Rule 456(b) and Rule 457(r) (2)	(3)	(3)	(3)	(2)	(2)				
	Other	Units (1)	Rule 456(b) and Rule 457(r)(2)	(3)	(3)	(3)	(2)	(2)				
Fees Previously Paid	N/A	N/A	N/A	N/A	N/A	N/A		N/A				

Carry Forward Securities												
Carry Forward Securities	N/A	N/A	N/A	N/A		N/A			N/A	N/A	N/A	N/A
	Total Offering Amounts					N/A		N/A				
	Total Fees Previously Paid							N/A				
	Total Fee Offsets							N/A				
	Net Fee Due							N/A				

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- (1) Any securities registered hereunder may be sold separately or as units with other securities registered hereunder. Separate consideration may or may not be received for securities that are issuable on exercise, conversion, or exchange of other securities.
 - (2) In accordance with Rules 456(b) and 457(r) under the Securities Act of 1933, as amended, the registrant is deferring payment of all of the registration fee. In connection with the securities offered hereby, the registrant will pay “pay-as-you-go registration fees” in accordance with Rule 456(b). The registrant will calculate the registration fee applicable to an offer of securities pursuant to this registration statement based on the fee payment rate in effect on the date of such fee payment.
 - (3) An indeterminate aggregate offering price or number of securities of each identified class is being registered as may from time to time be offered at indeterminate prices.
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