

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

FORM S-3

**REGISTRATION STATEMENT
UNDER THE SECURITIES ACT OF 1933**

FTC SOLAR, INC.

(Exact name of registrant as specified in its charter)

Delaware

81-4816270

(State or other jurisdiction of incorporation or organization)

(I.R.S. Employer Identification Number)

**FTC Solar, Inc.
9020 N Capital of Texas Hwy, Suite I-260,
Austin, Texas 78759
(737) 787-7906**

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

**Phelps Morris
Chief Financial Officer
FTC Solar, Inc.
9020 N Capital of Texas Hwy, Suite I-260,
Austin, Texas 78759
(737) 787-7906**

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

Copies of all communications, including communications sent to agent for service, should be sent to:

**Andrea L. Nicolás, Esq.
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**Jacob D. Wolf, Esq.
General Counsel and Secretary
FTC Solar, Inc.
9020 N Capital of Texas Hwy, Suite I-260,
Austin, Texas 78759
(737) 787-7906**

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	<input type="checkbox"/>	Accelerated filer	<input type="checkbox"/>
Non-accelerated filer	<input checked="" type="checkbox"/>	Smaller reporting company	<input type="checkbox"/>
		Emerging growth company	<input checked="" type="checkbox"/>

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.

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

EXPLANATORY NOTE

As of May 1, 2022, we became eligible under Securities and Exchange Commission (“SEC”) rules to use a short-form registration statement on Form S-3. This registration statement on Form S-3 is being filed in part to update and replace our registration statement on Form S-1 ([Registration No. 333-262538](#)), declared effective by the SEC on March 25, 2022 (the “S-1 Registration Statement”), which registered for future resale up to 37,277,987 shares of our common stock, par value \$0.0001 per share, held by the selling stockholders named in the prospectus, as required by the registration rights agreement that we initially entered into with the selling stockholders on April 29, 2021.

This registration statement (i) replaces the S-1 Registration Statement and registers for resale up to 35,674,463 shares of our common stock held by the selling stockholders included on the S-1 Registration Statement and (ii) registers the offer and sale from time to time in one or more offerings of up to \$250,000,000 aggregate offering price of our common stock, preferred stock, debt securities and warrants.

The information in this prospectus is not complete and may be changed. We and the selling stockholders may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not a solicitation of an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

Subject to Completion, dated June 24, 2022

PROSPECTUS



**\$250,000,000 Common Stock, Preferred Stock, Debt Securities, Warrants
by FTC Solar, Inc.**

**35,674,463 Shares of Common Stock
by Selling Stockholders**

FTC Solar, Inc. may offer and sell from time to time in one or more offerings (i) common stock, (ii) preferred stock, (iii) debt securities, which may be senior or subordinated and convertible or non-convertible, and (iv) warrants to purchase shares of our common stock, shares of our preferred stock or our debt securities. The aggregate offering price of all securities sold by us under this prospectus may not exceed \$250,000,000.

This prospectus also relates to the offer and sale from time to time by the selling stockholders identified in this prospectus of up to 35,674,463 shares of our common stock, par value \$0.0001 per share. This prospectus also covers any additional securities that may become issuable by reason of stock splits, stock dividends or recapitalizations. We will not receive any of the proceeds from the sale by the selling stockholders of the shares of common stock offered hereby.

The selling stockholders will pay all underwriting discounts and selling commissions, if any, in connection with the sale of the shares of common stock. We have agreed to pay certain expenses in connection with this registration statement and to indemnify the selling stockholders and certain related persons against certain liabilities. As of the date of this prospectus, no underwriter or other person has been engaged to facilitate the sale of shares of common stock held by the selling stockholders.

This prospectus provides you with a general description of the securities and the general manner in which we and the selling stockholders may offer or sell the applicable securities. If required, more specific terms of the securities will be provided in an accompanying prospectus supplement that describes, among other things, the specific amounts and prices of the securities being offered and the terms of the offering. For general information about the distribution of securities offered by us and the selling stockholders, see “*Plan of Distribution for Securities Offered by Us*” and “*Plan of Distribution for Shares Offered by Selling Stockholders*” respectively. The accompanying prospectus supplement may also add, update or change information contained in this prospectus. You should read this prospectus and any accompanying prospectus supplement before you invest.

Our common stock is listed on The Nasdaq Global Market (“Nasdaq”) under the symbol “FTCI.” On June 23, 2022, the last reported sale price of our common stock as reported on Nasdaq was \$4.96 per share.

We are an “emerging growth company,” as defined in Section 2(a) of the Securities Act of 1933, as amended (the “Securities Act”), and will be subject to reduced public company reporting requirements. This prospectus complies with the requirements that apply to an issuer that is an emerging growth company.

Investing in our securities involves a high degree of risk. See “Risk Factors” on page 3 of this prospectus and any similar section included in any accompanying prospectus supplement and in the documents incorporated by reference in this prospectus. You should carefully consider these factors before making your investment decision.

Neither the SEC nor any other regulatory body 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.

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ABOUT THIS PROSPECTUS

General

This prospectus is part of a registration statement that we filed with the SEC using a “shelf” registration process. Under this shelf registration process, we may offer and sell from time to time the securities described in this prospectus in one or more offerings for an aggregate offering price of up to \$250,000,000. This prospectus only provides you with a general description of the securities that we may offer. Each time we sell securities, we will provide a supplement to this prospectus that contains specific information about the terms of that offering, including the specific amounts, prices and terms of the securities offered. The prospectus supplement may also add, update or change information contained in this prospectus. You should carefully read both this prospectus, any accompanying prospectus supplement and any free writing prospectus prepared by or on behalf of us, together with the additional information described under the heading “*Where You Can Find More Information; Incorporation by Reference.*”

In addition, the selling stockholders identified in this prospectus may use this registration statement to offer and sell from time to time up to 35,674,463 shares of our common stock. We will not receive any of the proceeds from the sale by the selling stockholders of the shares of common stock offered hereby. The selling stockholders will deliver a supplement with this prospectus, if required, to update the information contained in this prospectus. The selling stockholders may sell the shares of common stock offered hereby through any means described under the heading “*Plan of Distribution for Shares Offered by Selling Stockholders*” or in any accompanying prospectus supplement. As used herein, the term “selling stockholder” includes each selling stockholder identified in this prospectus and their donees, pledgees, or other successors-in-interest selling shares of common stock or interests in shares of common stock received after the date of this prospectus from a selling stockholder as a gift, pledge, partnership distribution or other transfer.

We and the selling stockholders have not authorized anyone to provide you with any information other than that contained in or incorporated by reference into this prospectus, any accompanying prospectus supplement and any free writing prospectus prepared by or on behalf of us. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. We and the selling stockholders are not making offers to sell the securities in any jurisdiction in which an offer or solicitation is not authorized or in which the person making such offer or solicitation is not qualified to do so or to anyone to whom it is unlawful to make an offer or solicitation.

The information contained in this prospectus, any accompanying prospectus supplement, the documents incorporated by reference and any related free writing prospectus is accurate only as of their respective dates. You should not assume that the information contained in this prospectus, any accompanying prospectus supplement, the documents incorporated by reference and any related free writing prospectus is accurate as of any other date. Our business, strategies, prospects, financial condition, results of operations or cash flows may have changed materially since those dates.

When used in this prospectus, unless the context otherwise requires, all references to “FTC Solar,” “we,” “us,” “our,” the “Company” and similar designations refer to FTC Solar, Inc., a Delaware corporation, and, where appropriate, its consolidated subsidiaries.

Market, Industry and Other Data

This prospectus includes or incorporates by reference estimates regarding market and industry data and forecasts, which are based on publicly available information, industry publications and surveys, reports from government agencies and our own estimates based on our management’s knowledge of, and experience in, the industry and markets in which we compete. In presenting this information, we have made certain assumptions that we believe to be reasonable based on such data and other similar sources, and on our knowledge of, and our experience to date in, the markets for our products. Market data is subject to change and may be limited by the availability of raw data, the voluntary nature of the data gathering process and other limitations inherent in any statistical survey of market data. In addition, customer preferences are subject to change based on various factors, including those discussed under the headings “*Risk Factors*” and “*Cautionary Statement Regarding Forward-Looking Statements.*” Accordingly, you are cautioned not to place undue reliance on such market data. References to our being a leader in a market or product category refer to our belief that we have a leading market share position in such specified market based on sales dollars, unless the context otherwise requires.

Trademarks, Service Marks and Trade Names

This prospectus includes our trademarks and trade names, including, but not limited to, Voyager Tracker and FTC Solar, which are protected under applicable intellectual property laws. This prospectus also may contain trademarks, service marks, trade names and copyrights of other companies, which are the property of their respective owners. Solely for convenience, the trademarks, service marks, trade names and copyrights referred to in this prospectus are listed without the TM, SM, © and ® symbols, but we will assert, to the fullest extent under applicable law, our rights or the rights of the applicable licensors, if any, to these trademarks, service marks, trade names and copyrights.

PROSPECTUS SUMMARY

This summary highlights information included elsewhere in this prospectus. This summary may not contain all of the information that you should consider before making your investment decision. You should read this entire prospectus and any accompanying prospectus supplement carefully, together with the additional information under the heading “*Where You Can Find More Information; Incorporation by Reference.*”

FTC SOLAR, INC.

Overview

We were founded in 2017 and are incorporated in the state of Delaware. We are a global provider of advanced solar tracker systems, supported by proprietary software and value-added engineering services. Our mission is to provide differentiated products, software, and services that maximize energy generation and cost savings for our customers, and to help facilitate the continued growth and adoption of solar power globally. Trackers significantly increase the amount of solar energy produced at a solar installation by moving solar panels throughout the day to maintain an optimal orientation relative to the sun. Our tracker systems are currently marketed under the Voyager brand name (“Voyager Tracker” or “Voyager”). Voyager is a next-generation two-panel in-portrait single-axis tracker solution that we believe offers industry-leading performance and ease of installation. We have a team of dedicated renewable energy professionals with significant project installation experience focused on delivering cost reductions to our U.S. and worldwide clients across the solar project development and construction cycle. Our solar solutions span a range of applications, including ground mount, tracker, canopy, and rooftop. We are headquartered in Austin, Texas, and have international subsidiaries in Australia, India, Singapore and South Africa.

On January 13, 2017, we entered into an asset purchase agreement with SunEdison Utility Holdings, Inc. (“Seller”) to purchase all assets of the Seller, in addition to assuming any liabilities, for a total transaction price of \$6 million. Seller discontinued its operations and filed for bankruptcy prior to the acquisition date. The assets purchased as part of this acquisition included intangible assets in the form of developed technology (the “AP90 tracker”), software, and inventory. In connection with the acquisition, we were formed by the management team behind the AP90 tracker, a first-generation tracker based on a one-panel in-portrait, linked-row design. Our management team utilized their design and construction experience, and their experience with installing and operating other competitive tracking solutions, to create the next-generation Voyager Tracker, which achieved product certification in 2019.

We currently offer tracking and software solutions targeting the utility-scale solar energy markets to current and potential customers in the United States, Asia, the Middle East, North Africa, South Africa and Australia, and we aim to continue to expand our global footprint in Latin America, New Zealand and Europe. Our Voyager tracking system is built upon a self-powered, two-panel in-portrait design utilizing a 60-meter independent row architecture, which provides numerous advantages to our customers.

Our customers include project developers, solar asset owners and engineering, procurement and construction contractors that design and build solar energy projects.

We currently operate in one business segment and derive our revenue primarily from the sale of: (i) Voyager Tracker and customized components of Voyager Tracker, (ii) individual parts of Voyager Tracker for certain specific transactions, (iii) shipping and handling services, (iv) term-based software licenses, (v) maintenance and support services for the term-based software licenses and (vi) subscription services.

We report both product and service revenue in our consolidated financial statements. Product revenue includes revenue from the sale of Voyager Tracker and customized components of Voyager Tracker, individual part sales for certain specific transactions, and sale of term-based software licenses. Service revenue includes revenue from shipping and handling services, subscription fees from licensing subscription services, and maintenance and support services in connection with the term-based software licenses.

We incur costs associated with the revenues generated related to (i) the raw materials used in the Voyager Tracker system, including parts and components, (ii) personnel costs attributable to procurement, installation and delivery of finished products and services, (iii) freight and delivery, (iv) product warranty, (v) insurance and (vi) customer support.

We outsource all manufacturing to contract manufacturing partners who rely largely on raw materials obtained from international sources, including various vendors located in Southeast Asia. We, and our contract manufacturing

partners, have been impacted by global logistics issues and increasing costs to obtain and deliver those materials during the last nine months of 2021 and continuing into 2022. We continue to focus on improving product margins by seeking ways to reduce such costs.

We are an emerging growth company, as defined in the Jumpstart Our Business Startups Act (the “JOBS Act”). Under the JOBS Act, we elected to use the allowed extended transition period to delay adopting new or revised accounting standards until such time as those standards apply to private companies.

Corporate Information

We were incorporated under the laws of the State of Delaware on January 3, 2017 under the name FTC Solar, Inc. Our principal executive offices are located at 9020 N Capital of Texas Hwy, Suite I-260, Austin, Texas 78759. Our telephone number is (737) 787-7906. Our website address is <https://ftcsolar.com>. Information contained on, or that can be accessed through, our website is not incorporated by reference into this prospectus or any accompanying prospectus supplement, and you should not consider information on our website to be part of this prospectus or any accompanying prospectus supplement.

RISK FACTORS

Investing in our securities involves a high degree of risk. Please see the risk factors under the heading “*Risk Factors*” in our most recent Annual Report on Form 10-K and those contained in our other filings with the SEC that are incorporated by reference in this prospectus and any accompanying prospectus supplement. Before making an investment decision, you should carefully consider these risks as well as other information we include or incorporate by reference in this prospectus and any accompanying prospectus supplement. These risks could materially affect our business, strategies, prospects, financial condition, results of operations or cash flows and cause the value of our securities to decline. The risks and uncertainties we have described are not the only ones facing our company. Additional risks and uncertainties not presently known to us or that we currently deem immaterial may also affect our business operations. The occurrence of any of these risks might cause you to lose all or part of your investment in the offered securities. The discussion of risks includes or refers to forward-looking statements. You should read the explanations and limitations on such forward-looking statements discussed elsewhere in the prospectus under the heading “*Cautionary Statement Regarding Forward-Looking Statements.*”

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING STATEMENTS

This prospectus, any accompanying prospectus supplement and the documents incorporated by reference herein and therein may contain forward-looking statements. All statements other than statements of historical or current facts contained or incorporated by reference in this prospectus and any accompanying prospectus supplement may be forward-looking statements. Statements regarding our future results of operations and financial position, business strategy and plans and objectives of management for future operations, including, among others, statements regarding the offering, liquidity, growth and profitability strategies and factors and trends affecting our business are forward-looking statements. Forward-looking statements can be identified in some cases by the use of words such as “believe,” “can,” “could,” “potential,” “plan,” “predict,” “goals,” “seek,” “should,” “may,” “may have,” “would,” “estimate,” “continue,” “anticipate,” “intend,” “expect,” the negative of these words, other similar expressions or by discussions of strategy, plans or intentions.

The forward-looking statements contained or incorporated by reference in this prospectus and any accompanying prospectus supplement are only predictions. We base these forward-looking statements largely on our current expectations and projections about future events and financial trends that we believe may affect our business, financial condition and results of operations. Forward-looking statements involve known and unknown risks, uncertainties and other important factors that may cause our actual results, performance or achievements, or industry results, to be materially different from any future results, performance or achievements expressed or implied by the forward-looking statements. We believe that these factors include, but are not limited to, the factors set forth under the heading “*Risk Factors*” in our most recent Annual Report on Form 10-K. In addition, with respect to the acquisition discussed in the documents incorporated by reference in this prospectus and any accompanying prospectus supplement, these factors also include risks related to: (1) costs related to the integration of the acquisition, (2) the inability to successfully merge goals and technology with the acquisition company, (3) the ability to recognize the anticipated benefits of the acquisition (including expected orders and revenues for the acquisition company, which are based on our reasonable due diligence of such company and the information and representations that such company has made to us), which may be affected by, among other things, competition, brand recognition, the ability of the combined companies to grow and manage growth profitably and retain their key employees, (4) the failure of the combined companies to effectively scale tracker systems and solutions in certain international markets and (5) changes in applicable laws or regulations that impact the feasibility of the operations of the combined companies. Because forward-looking statements are inherently subject to risks and uncertainties, some of which cannot be predicted or quantified, you should not rely on these forward-looking statements as predictions of future events. The events and circumstances reflected in our forward-looking statements may not be achieved or occur and actual results could differ materially from those projected in the forward-looking statements.

In addition, statements that “we believe” and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this prospectus or any accompanying prospectus supplement, and while we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain and investors are cautioned not to unduly rely upon these statements.

You should read this prospectus, any accompanying prospectus supplement and the documents incorporated by reference herein and therein with the understanding that our actual future results, levels of activity, performance and

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achievements may be materially different from what we expect. All forward-looking statements attributable to us or persons acting on our behalf are expressly qualified in their entirety by these cautionary statements.

These forward-looking statements speak only as of the date of this prospectus or, in the case of any accompanying prospectus supplement or documents incorporated by reference, the date of any such document. Except as required by applicable law, we do not plan to publicly update or revise any forward-looking statement, whether as a result of any new information, future events or otherwise.

USE OF PROCEEDS

Except as otherwise set forth in any accompanying prospectus supplement, we expect to use the net proceeds from the sale of securities offered by this prospectus in connection with the primary offering for general corporate purposes, including the financing of our operations and possible business acquisitions or investments. We will not receive any proceeds from the sale of common stock offered by the selling stockholders.

SELLING STOCKHOLDERS

This prospectus relates to the sale or other disposition of up to 35,674,463 shares of our common stock by the selling stockholders named below, and their donees, pledgees, or other successors-in-interest selling shares of common stock or interests in shares of common stock received after the date of this prospectus from a selling stockholder as a gift, pledge, partnership distribution or other transfer.

The following table, based upon information currently known by us, sets forth as June 10, 2022, (i) the number of shares held of record or beneficially by the selling stockholders as of such date (as determined below) and (ii) the number of shares that may be sold or otherwise disposed of under this prospectus by the selling stockholders. Percentage ownership is based on 100,659,085 shares of common stock outstanding as of June 10, 2022, plus securities deemed to be outstanding with respect to individual stockholders pursuant to Rule 13d-3(d)(1) under the Securities Exchange Act of 1934, as amended (the “Exchange Act”). Beneficial ownership includes shares of common stock plus any securities held by the holder exercisable for or convertible into shares of common stock within 60 days after June 10, 2022, in accordance with Rule 13d-3(d)(1) under the Exchange Act. The inclusion of any shares in this table does not constitute an admission of beneficial ownership for the selling stockholders named below. We do not know when or in what amounts a selling stockholder may sell or otherwise dispose of the shares of common stock covered hereby. The selling stockholders may not sell or otherwise dispose of any or all of the shares offered by this prospectus and may sell or otherwise dispose of shares covered hereby in transactions exempt from the registration requirements of the Securities Act. Because the selling stockholders may sell or otherwise dispose of some, all or none of the shares covered hereby, and because there are currently no agreements, arrangements or understandings with respect to the sale of any of the shares, we cannot estimate the number of the shares that will be held by the selling stockholders after completion of the offering. However, for purposes of the following table, we have assumed that all of the shares covered hereby are sold by the selling stockholders.

Except as described in the footnotes in the table below, the selling stockholders have not held any position or office, or otherwise had a material relationship, with us or any of our subsidiaries within the past three years other than as a result of the ownership of our shares or other securities. Unless otherwise indicated below, to our knowledge, all persons named in the table have sole voting and investment power with respect to their shares of common stock, except to the extent authority is shared by their spouses under applicable law.

Selling Stockholder	Beneficial Ownership of Common Stock Prior to this Offering		Number of Shares to be Sold Under this Prospectus	Beneficial Ownership of Common Stock after this Offering	
	Number of Shares	Percent of Class		Number of Shares	Percent of Class
ARC Family Trust ⁽¹⁾	20,285,356	20.2%	20,285,356	0	0%
South Lake One LLC ⁽²⁾	14,652,750	14.6%	14,652,750	0	0%
Isidoro Quiroga Cortés ⁽³⁾	736,357	0.7%	736,357	0	0%

- (1) The ARC Family Trust was established by Ahmad Chatila for the benefit of certain members of his family. Shaker Sadasivam is the trustee of the ARC Family Trust and has sole voting and dispositive power with respect to these shares. Mr. Chatila and Mr. Sadasivam are members of our board of directors. The business address of this stockholder is 20 Montchanin Road, Suite 100, Greenville, DE 19807.
- (2) Isidoro Quiroga Cortés, María Victoria Quiroga Moreno, Martín Guiloff Salvador and Felipe Correa González, in their capacity as members of the board of directors, may be deemed to have voting and dispositive power (acting jointly Isidoro Quiroga Cortés or María Victoria Quiroga Moreno with any of Martín Guiloff Salvador and Felipe Correa González) with respect to all shares held by South Lake One LLC. Mr. Quiroga Cortés is a member of our board of directors. The principal business address of this stockholder is 5711 Pdte. Riesco, Office No. 1603, Las Condes, Santiago, Chile.
- (3) Mr. Quiroga Cortés is a member of our board of directors. The principal business address of this stockholder is 5711 Pdte. Riesco, Office No. 1603, Las Condes, Santiago, Chile.

DESCRIPTION OF CAPITAL STOCK

The following summary describes the material provisions of our capital stock and certain provisions of our amended and restated certificate of incorporation and amended and restated bylaws and does not purport to be complete and is qualified by reference to our amended and restated certificate of incorporation and our amended and restated bylaws and the applicable provisions of the Delaware General Corporation Law (the "DGCL"), each as in effect as of the date of this prospectus. Copies of these documents are incorporated by reference as exhibits to the registration statement of which this prospectus forms a part. See "Where You Can Find More Information; Incorporation by Reference."

General

Our amended and restated certificate of incorporation authorizes capital stock consisting of:

- 850,000,000 shares of common stock, par value \$0.0001 per share; and
- 10,000,000 shares of preferred stock, par value \$0.0001 per share.

As of June 10, 2022, there were 100,659,085 shares of common stock outstanding, held by 67 stockholders of record, and no shares of preferred stock outstanding. The actual number of stockholders is greater than this number of record holders, and includes stockholders who are beneficial owners, but whose shares are held in street name by brokers and other nominees. This number of holders of record does not include stockholders whose shares may be held in trust by other entities.

Common Stock

Voting Rights

Holders of shares of our common stock are entitled to one vote for each share held of record on all matters on which stockholders are entitled to vote generally, including the election or removal of directors elected by our stockholders generally. The holders of our common stock do not have cumulative voting rights in the election of directors.

Dividends

Holders of shares of our common stock are entitled to receive ratably those dividends, if any, when, as and if declared by our board of directors out of funds legally available therefor, subject to any statutory or contractual restrictions on the payment of dividends and to any restrictions on the payment of dividends imposed by the terms of any outstanding preferred stock.

Liquidation

Upon our liquidation, dissolution or winding up and after payment in full of all amounts required to be paid to creditors and to the holders of preferred stock having liquidation preferences, if any, the holders of shares of our common stock are entitled to receive ratably our remaining assets legally available for distribution.

Rights and Preferences

Our common stock is not subject to further calls or assessments by us. Holders of shares of our common stock do not have preemptive, subscription, redemption or conversion rights. There are no redemption or sinking fund provisions applicable to our common stock. The rights, preferences and privileges of the holders of our common stock are subject to and may be adversely affected by the rights of the holders of shares of any series of our preferred stock or any other series or class of stock we may authorize and issue in the future.

Fully Paid and Non-Assessable

All shares of our common stock outstanding are fully paid and non-assessable.

Preferred Stock

Pursuant to our amended and restated certificate of incorporation, the total number of authorized shares of preferred stock is 10,000,000 shares. We have no shares of preferred stock issued or outstanding.

Under the terms of our amended and restated certificate of incorporation, our board of directors is authorized to direct us to issue one or more series of preferred stock (including convertible preferred stock) without stockholder

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approval, unless required by law or any stock exchange. Our board of directors has the discretion to determine, with respect to any series of preferred stock, the powers (including voting powers), preferences and relative, participating, optional or other special rights, and the qualifications, limitations or restrictions thereof, including, without limitation:

- the designation of the series;
- the number of shares of the series, which our board of directors may, except where otherwise provided in the preferred stock designation, increase (but not above the total number of authorized shares of the class) or decrease (but not below the number of shares then outstanding);
- whether dividends, if any, will be cumulative or non-cumulative and the dividend rate of the series;
- the dates at which dividends, if any, will be payable;
- the redemption or repurchase rights and price or prices, if any, for shares of the series;
- the terms and amounts of any sinking fund provided for the purchase or redemption of shares of the series;
- the amounts payable on shares of the series in the event of any voluntary or involuntary liquidation, dissolution or winding-up of our affairs;
- whether the shares of the series will be convertible into shares of any other class or series, or any other security, of us or any other entity, and, if so, the specification of the other class or series or other security, the conversion price or prices or rate or rates, any rate adjustments, the date or dates as of which the shares will be convertible and all other terms and conditions upon which the conversion may be made;
- restrictions on the issuance of shares of the same series or of any other class or series; and
- the voting rights, if any, of the holders of the series.

The purpose of authorizing our board of directors to issue preferred stock and determine its rights and preferences is to eliminate delays associated with a stockholder vote on specific issuances. The issuance of preferred stock, while providing flexibility in connection with possible acquisitions, future financings and other corporate purposes, could, depending on the terms of the series, impede or discourage an acquisition attempt or other transaction that some, or a majority, of the holders of our common stock might believe to be in their best interests or in which the holders of our common stock might receive a premium over the market price of the shares of our common stock. Additionally, the issuance of preferred stock may adversely affect the rights of holders of our common stock by restricting dividends on the common stock, diluting the voting power of the common stock or subordinating the liquidation rights of the common stock. As a result of these or other factors, the issuance of preferred stock could have an adverse impact on the market price of our common stock.

Options

As of June 10, 2022, options to purchase in the aggregate 8,160,452 shares of our common stock were outstanding under our equity compensation plans.

Registration Rights

Certain holders of our common stock, options, restricted stock units and similar instruments have certain registration rights pursuant to the registration rights agreement entered into on April 29, 2021, as amended from time to time (the "Registration Rights Agreement"). The registration rights set forth in the Registration Rights Agreement expires on the earlier of April 29, 2024 or, with respect to any particular stockholder, when such stockholder is able to freely sell all of its shares pursuant to Rule 144 of the Securities Act. We will pay the registration expenses (other than underwriting discounts and commissions) of the holders of the shares registered pursuant to the registrations described below. The Registration Rights Agreement does not provide for any cash penalties or any penalties connected with delays in registering our common stock.

In an underwritten offering, the managing underwriter, if any, or in the case of a demand registration not being underwritten, our board of directors, has the right, subject to specified conditions, to limit the number of shares such holders may include.

Demand Registration Rights

Any holder or group of holders that, together with its respective affiliates, beneficially own at least 15% of our shares of common stock and equity rights that are convertible into or exercisable or exchangeable for shares of our

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common stock (the “Company Shares”) entitled to certain demand registration rights can make a request that we register all or a portion of their shares. Such request for registration must cover securities the aggregate offering price of which, after payment of underwriting discounts and commissions, would equal or exceed \$5,000,000. We are not required to effect more than two registrations on Form S-1 within any 12-month period. At the holders’ request, an offering pursuant to a demand registration may be underwritten.

Form S-3 Registration Rights

Any holder or group of holders that, together with its respective affiliates, beneficially own at least 15% of the Company Shares entitled to certain Form S-3 registration rights can make a request that we register their shares on Form S-3 if we are qualified to file a registration statement on Form S-3 and if the reasonably anticipated aggregate gross proceeds of the shares offered would equal or exceed \$2,000,000. We are not required to effect more than four registrations on Form S-3 per calendar year in the aggregate in addition to the registrations on Form S-1.

Anti-Takeover Provisions

Certain provisions of our amended and restated certificate of incorporation, our amended and restated bylaws and Delaware law are intended to enhance the likelihood of continuity and stability in the composition of our board of directors. These provisions are intended to avoid costly takeover battles, reduce our vulnerability to a hostile or abusive change of control and enhance the ability of our board of directors to maximize stockholder value in connection with any unsolicited offer to acquire us. These provisions are also designed to encourage persons seeking to acquire control of us to first negotiate with our board of directors, which we believe may result in an improvement of the terms of any such acquisition in favor of our stockholders. However, these provisions may have an anti-takeover effect and may delay, deter or prevent a merger or acquisition of us by means of a tender offer, a proxy contest or other takeover attempt that a stockholder might consider in its best interest, including those attempts that might result in a premium over the prevailing market price for the shares of common stock held by stockholders.

Authorized but Unissued Capital Stock

The authorized but unissued shares of common stock and preferred stock are available for future issuance without stockholder approval, subject to any limitations imposed by the listing standards of Nasdaq. These additional shares may be used for a variety of corporate finance transactions, acquisitions and employee benefit plans. The existence of authorized but unissued and unreserved common stock and preferred stock could make more difficult or discourage an attempt to obtain control of us by means of a proxy contest, tender offer, merger or otherwise.

Business Combinations

We are subject to the provisions of Section 203 of the DGCL, regulating corporate takeovers. This statute prevents certain Delaware corporations, under certain circumstances, from engaging in a “business combination” with:

- a stockholder who owns 15% or more of our outstanding voting stock (otherwise known as an “interested stockholder”);
- an affiliate of an interested stockholder; or
- an associate of an interested stockholder for a period of three years following the date that the stockholder became an interested stockholder.

A “business combination” includes a merger or sale of more than 10% of our assets. However, the above provisions of Section 203 of the DGCL do not apply if:

- our board of directors approves the transaction that made the stockholder an “interested stockholder” prior to the date of the transaction;
- after the completion of the transaction that resulted in the stockholder becoming an interested stockholder, that stockholder owned at least 85% of our voting stock outstanding at the time the transaction commenced, other than statutorily excluded shares of common stock; or
- on or subsequent to the date of the transaction, the business combination is approved by our board of directors and authorized at a meeting of our stockholders, and not by written consent, by an affirmative vote of at least two-thirds of the outstanding voting stock not owned by the interested stockholder.

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For purposes of this section only, “voting stock” has the meaning given to it in Section 203 of the DGCL.

No Cumulative Voting

Under Delaware law, the right to vote cumulatively does not exist unless the certificate of incorporation specifically authorizes cumulative voting. Our amended and restated certificate of incorporation does not authorize cumulative voting. Therefore, stockholders holding a majority of the shares of our capital stock entitled to vote generally in the election of directors are able to elect all our directors.

Classified Board of Directors

Our amended and restated certificate of incorporation provides that our board of directors is divided into three classes, with the number of directors in each class being as nearly equal in number as possible. The directors in each class will serve for a three-year term, one class being elected each year by our stockholders, with staggered terms. Our amended and restated certificate of incorporation provides that directors may only be removed from our board of directors for cause by the affirmative vote of a majority of the shares entitled to vote. These provisions may have the effect of deferring, delaying or discouraging hostile takeovers, or changes in control of us or our management.

Special Stockholder Meetings

Our amended and restated certificate of incorporation provides that special meetings of our stockholders may be called at any time only by or at the direction of a majority of the board of directors or the chairman of the board of directors. Our amended and restated bylaws prohibit the conduct of any business at a special meeting other than as specified in the notice for such meeting. These provisions may have the effect of deferring, delaying or discouraging hostile takeovers, or changes in control of our management.

Director Nominations and Stockholder Proposals

Our amended and restated bylaws establish advance notice procedures with respect to stockholder proposals and the nomination of candidates for election as directors, other than nominations made by or at the direction of the board of directors or a committee of the board of directors. In order for any matter to be “properly brought” before a meeting, a stockholder will have to comply with advance notice requirements and provide us with certain information. Generally, to be timely, a stockholder’s notice must be received at our principal executive offices not less than 90 days nor more than 120 days prior to the first anniversary date of the immediately preceding annual meeting of stockholders. Our amended and restated bylaws also specify requirements as to the form and content of a stockholder’s notice. Our amended and restated bylaws allow the chairman of the meeting at a meeting of the stockholders to adopt rules and regulations for the conduct of meetings that may have the effect of precluding the conduct of certain business at a meeting if the rules and regulations are not followed. These provisions may also defer, delay or discourage a potential acquirer from conducting a solicitation of proxies to elect the acquirer’s own slate of directors or otherwise attempting to influence or obtain control of us.

Stockholder Action by Written Consent

Pursuant to Section 228 of the DGCL, any action required to be taken at any annual or special meeting of the stockholders may be taken without a meeting, without prior notice, and without a vote if a consent or consents in writing, setting forth the action so taken, is or are signed by the holders of outstanding capital stock having not less than the minimum number of votes that would be necessary to authorize or take such action at a meeting at which all shares of our capital stock entitled to vote thereon were present and voted, unless a corporation’s certificate of incorporation provides otherwise. Our amended and restated certificate of incorporation precludes stockholder action by written consent at any time. As a result, a holder controlling a majority of our capital stock would not be able to amend our amended and restated bylaws or remove directors without holding a meeting of our stockholders called in accordance with our amended and restated bylaws. Further, our amended and restated bylaws provide that only the chairperson of our board of directors or a majority of our board of directors may call special meetings of our stockholders, thus prohibiting a stockholder from calling a special meeting. These provisions might delay the ability of our stockholders to force consideration of a proposal or for stockholders controlling a majority of our capital stock to take any action, including the removal of directors.

Amendment of Certificate of Incorporation or Bylaws

The DGCL provides generally that the affirmative vote of a majority of the shares entitled to vote on any matter is required to amend a corporation’s certificate of incorporation or bylaws, unless a corporation’s certificate of incorporation or bylaws, as the case may be, requires a greater percentage. Our amended and restated bylaws may

be amended or repealed by a majority vote of our board of directors or by the affirmative vote of the holders of at least two-thirds of the votes which all our stockholders would be entitled to cast in any annual election of directors. In addition, the affirmative vote of the holders of at least two-thirds of the votes which all our stockholders would be entitled to cast in any annual election of directors is required to amend or repeal or to adopt any provisions inconsistent with any of the provisions of our amended and restated certificate of incorporation.

The foregoing provisions of our amended and restated certificate of incorporation and our amended and restated bylaws could discourage potential acquisition proposals and could delay or prevent a change in control. These provisions are intended to enhance the likelihood of continuity and stability in the composition of our board of directors and in the policies formulated by our board of directors and to discourage certain types of transactions that may involve an actual or threatened change of control. These provisions are designed to reduce our vulnerability to an unsolicited acquisition proposal. The provisions also are intended to discourage certain tactics that may be used in proxy fights. However, such provisions could have the effect of discouraging others from making tender offers for our shares and, as a consequence, they also may inhibit fluctuations in the market price of our shares of common stock that could result from actual or rumored takeover attempts. Such provisions also may have the effect of preventing changes in our management or delaying or preventing a transaction that might benefit stockholders.

Dissenters' Rights of Appraisal and Payment

Under the DGCL, with certain exceptions, our stockholders have appraisal rights in connection with a merger or consolidation of FTC Solar. Pursuant to Section 262 of the DGCL, stockholders who properly request and perfect appraisal rights in connection with such merger or consolidation have the right to receive payment of the fair value of their shares as determined by the Delaware Court of Chancery.

Stockholders' Derivative Actions

Under the DGCL, any of our stockholders may bring an action in our name to procure a judgment in our favor, also known as a derivative action, provided that the stockholder bringing the action is a holder of our shares at the time of the transaction to which the action relates or such stockholder's shares thereafter devolved by operation of law.

Exclusive Forum

Our amended and restated certificate of incorporation provides that, unless we consent in writing to the selection of an alternative forum, the Delaware Court of Chancery shall, to the fullest extent permitted by applicable law, be the sole and exclusive forum for any (i) derivative action or proceeding brought on our behalf, (ii) action asserting a claim of breach of a fiduciary duty owed by any of our directors, officers or other employees or stockholders to us or our stockholders, (iii) action asserting a claim against us, any director or our officers and employees arising pursuant to any provision of the DGCL, our amended and restated certificate of incorporation or our amended and restated bylaws, or as to which the DGCL confers exclusive jurisdiction on the Court of Chancery, (iv) action to interpret, apply, enforce or determine the validity of our amended and restated certificate of incorporation or our amended and restated bylaws, (v) action asserting a claim against us, any director or our officers or employees that is governed by the internal affairs doctrine, or (vi) any action asserting an "internal corporate claim" as defined in Section 115 of the DGCL; provided, however, that the exclusive forum provisions will not apply to suits brought to enforce any liability or duty created by the Exchange Act, or to any claim for which the federal courts have exclusive jurisdiction. Our amended and restated certificate of incorporation further provides that, unless we consent in writing to the selection of an alternative forum, the federal district courts are the sole and exclusive forum for the resolution of any complaint asserting a cause of action arising under the Securities Act, subject to a final adjudication in the State of Delaware of the enforceability of such exclusive forum provision. We note that investors cannot waive compliance with the federal securities laws and the rules and regulations thereunder. Although we believe the provision benefits us by providing increased consistency in the application of Delaware law in the types of lawsuits to which it applies, the provision may have the effect of discouraging lawsuits against our directors and officers.

Officers and Directors

The DGCL authorizes corporations to limit or eliminate the personal liability of directors to corporations and their stockholders for monetary damages for breaches of directors' fiduciary duties, subject to certain exceptions. Our amended and restated certificate of incorporation includes a provision that eliminates the personal liability of

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directors for monetary damages to us or our stockholders for any breach of fiduciary duty as a director, except to the extent such exemption from liability or limitation thereof is not permitted under the DGCL. The effect of these provisions is to eliminate the rights of us and our stockholders, through stockholders' derivative suits on our behalf, to recover monetary damages from a director for breach of fiduciary duty as a director, including breaches resulting from grossly negligent behavior. However, exculpation does not apply to any breaches of the director's duty of loyalty, any acts or omissions not in good faith or that involve intentional misconduct or knowing violation of law, any authorization of dividends or stock redemptions or repurchases paid or made in violation of the DGCL, or for any transaction from which the director derived an improper personal benefit.

Our amended and restated bylaws generally provide that we must indemnify and advance expenses to our directors and officers to the fullest extent authorized by the DGCL. We also are expressly authorized to carry directors' and officers' liability insurance providing indemnification for our directors, officers and certain employees for some liabilities. We believe that these indemnification and advancement provisions and insurance are useful to attract and retain qualified directors and executive officers.

The limitation of liability, indemnification and advancement provisions in our amended and restated certificate of incorporation and amended and restated bylaws may discourage stockholders from bringing a lawsuit against directors for breach of their fiduciary duty. These provisions also may have the effect of reducing the likelihood of derivative litigation against directors and officers, even though such an action, if successful, might otherwise benefit us and our stockholders. In addition, an investment in our common stock may be adversely affected to the extent we pay the costs of settlement and damage awards against directors and officers pursuant to these indemnification provisions.

There is no pending litigation or proceeding naming any of our directors or officers to which indemnification is being sought, and we are not aware of any pending or threatened litigation that may result in claims for indemnification by any director or officer.

Indemnification Agreements

We have entered into separate indemnification agreements with each of our directors and executive officers. Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors or executive officers, we have been informed that in the opinion of the SEC such indemnification is against public policy and is therefore unenforceable.

Transfer Agent and Registrar

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

Listing

Our common stock is listed on Nasdaq under the symbol "FTCI."

DESCRIPTION OF DEBT SECURITIES

We may offer debt securities in one or more series, which may be senior debt securities or subordinated debt securities and which may be convertible into another security.

The following description briefly sets forth certain general terms and provisions of the debt securities. The particular terms of the debt securities offered by any prospectus supplement and the extent, if any, to which the following general terms and provisions may apply to the debt securities, will be described in an accompanying prospectus supplement. Unless otherwise specified in an accompanying prospectus supplement, our debt securities will be issued in one or more series under an indenture to be entered into between us and Wilmington Trust, National Association, as trustee, or such other trustee named therein. A form of the indenture is attached as an exhibit to the registration statement of which this prospectus forms a part. The terms of the debt securities will include those set forth in the indenture and those made a part of the indenture by the Trust Indenture Act of 1939 (“TIA”). You should read the summary below, any accompanying prospectus supplement and the provisions of the indenture in their entirety before investing in our debt securities.

The aggregate principal amount of debt securities that may be issued under the indenture is unlimited. The prospectus supplement relating to any series of debt securities that we may offer will contain the specific terms of the debt securities. These terms may include, among others, the following:

- the title and aggregate principal amount of the debt securities and any limit on the aggregate principal amount of such series;
- any applicable subordination provisions for any subordinated debt securities;
- the maturity date(s) or method for determining same;
- the interest rate(s) or the method for determining same;
- the dates on which interest will accrue or the method for determining dates on which interest will accrue and dates on which interest will be payable and whether interest will be payable in cash, additional securities or some combination thereof;
- whether the debt securities are convertible or exchangeable into other securities and any related terms and conditions;
- redemption or early repayment provisions;
- authorized denominations;
- if other than the principal amount, the principal amount of debt securities payable upon acceleration;
- place(s) where payment of principal and interest may be made, where debt securities may be presented and where notices or demands upon the company may be made;
- the form or forms of the debt securities of the series including such legends as may be required by applicable law;
- whether the debt securities will be issued in whole or in part in the form of one or more global securities and the date as of which the securities are dated if other than the date of original issuance;
- whether the debt securities are secured and the terms of such security;
- the amount of discount or premium, if any, with which the debt securities will be issued;
- any covenants applicable to the particular debt securities being issued;
- any additions or changes in the defaults and events of default applicable to the particular debt securities being issued;
- the guarantors of each series, if any, and the extent of the guarantees (including provisions relating to seniority, subordination and release of the guarantees), if any;
- the currency, currencies or currency units in which the purchase price for, the principal of and any premium and any interest on, the debt securities will be payable;

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- the time period within which, the manner in which and the terms and conditions upon which we or the holders of the debt securities can select the payment currency;
- our obligation or right to redeem, purchase or repay debt securities under a sinking fund, amortization or analogous provision;
- any restriction or conditions on the transferability of the debt securities;
- provisions granting special rights to holders of the debt securities upon occurrence of specified events;
- additions or changes relating to compensation or reimbursement of the trustee of the series of debt securities;
- provisions relating to the modification of the indenture both with and without the consent of holders of debt securities issued under the indenture and the execution of supplemental indentures for such series; and
- any other terms of the debt securities (which terms shall not be inconsistent with the provisions of the TIA, but may modify, amend, supplement or delete any of the terms of the indenture with respect to such series of debt securities).

General

We may sell the debt securities, including original issue discount securities, at par or at a substantial discount below their stated principal amount. Unless we inform you otherwise in a prospectus supplement, we may issue additional debt securities of a particular series without the consent of the holders of the debt securities of such series or any other series outstanding at the time of issuance. Any such additional debt securities, together with all other outstanding debt securities of that series, will constitute a single series of securities under the indenture.

We will describe in an accompanying prospectus supplement any other special considerations for any debt securities we sell that are denominated in a currency or currency unit other than U.S. dollars. In addition, debt securities may be issued where the amount of principal and/or interest payable is determined by reference to one or more currency exchange rates, commodity prices, equity indices or other factors. Holders of such securities may receive a principal amount or a payment of interest that is greater than or less than the amount of principal or interest otherwise payable on such dates, depending upon the value of the applicable currencies, commodities, equity indices or other factors. Information as to the methods for determining the amount of principal or interest, if any, payable on any date, and the currencies, commodities, equity indices or other factors to which the amount payable on such date is linked will be described in an accompanying prospectus supplement.

United States federal income tax consequences and special considerations, if any, applicable to any such series will be described in an accompanying prospectus supplement.

We expect most debt securities to be issued in fully registered form without coupons and in minimum denominations of \$2,000 and any integral multiple of \$1,000 in excess thereof. Subject to the limitations provided in the indenture and in an accompanying prospectus supplement, debt securities that are issued in registered form may be transferred or exchanged at the designated corporate trust office of the trustee, without the payment of any service charge, other than any tax or other governmental charge payable in connection therewith.

Global Securities

Unless we inform you otherwise in an accompanying prospectus supplement, the debt securities of a series may be issued in whole or in part in the form of one or more global securities that will be deposited with, or on behalf of, a depositary identified in an accompanying prospectus supplement. Unless and until a global security is exchanged in whole or in part for the individual debt securities, a global security may not be transferred except as a whole by the depositary for such global security to a nominee of such depositary or by a nominee of such depositary to such depositary or another nominee of such depositary or by such depositary or any such nominee to a successor of such depositary or a nominee of such successor.

Governing Law

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

DESCRIPTION OF WARRANTS

We may issue warrants for the purchase of shares of our common stock, shares of preferred stock or our debt securities. We may issue warrants independently or together with other securities, and they may be attached to or separate from the other securities. Each series of warrants will be issued under a separate warrant agreement that we will enter into with a bank or trust company, as warrant agent, as detailed in an accompanying prospectus supplement. The warrant agent will act solely as our agent in connection with the warrants and will not assume any obligation, or agency or trust relationship, with you.

The accompanying prospectus supplement relating to a particular issue of warrants will describe the terms of those warrants, including, when applicable:

- the offering price;
- the currency or currencies, including composite currencies, in which the purchase price and/or exercise price of the warrants may be payable;
- the number of warrants offered;
- the exercise price and the amount of securities you will receive upon exercise;
- the procedure for exercise of the warrants and the circumstances, if any, that will cause the warrants to be automatically exercised;
- the rights, if any, we have to redeem the warrants;
- the date on which the right to exercise the warrants will commence and the date on which the warrants will expire;
- the name of the warrant agent; and
- any other material terms of the warrants.

After warrants expire they will become void. The accompanying prospectus supplement may provide for the adjustment of the exercise price of the warrants.

Warrants may be exercised at the appropriate office of the warrant agent or any other office indicated in an accompanying prospectus supplement. Before the exercise of warrants, holders will not have any of the rights of holders of the securities purchasable upon exercise and will not be entitled to payments made to holders of those securities.

The description in an accompanying prospectus supplement of any warrants we offer will not necessarily be complete and will be qualified in its entirety by reference to the applicable warrant agreement, which will be filed with the SEC if we offer warrants. For more information on how you can obtain copies of any warrant agreement if we offer warrants, see “*Where You Can Find More Information; Incorporation by Reference.*” We urge you to read the applicable warrant agreement and any accompanying prospectus supplement in their entirety.

PLAN OF DISTRIBUTION FOR SECURITIES OFFERED BY US

We are registering common stock, preferred stock, debt securities and warrants with an aggregate offering price of up to \$250,000,000, to be sold by us under a shelf registration process. We may sell the securities offered by this prospectus from time to time in one or more transactions, including without limitation:

- through underwriters for resale to purchasers;
- through dealers to purchasers;
- through agents to purchasers;
- directly to one or more purchasers; or
- through a combination of these methods of sale.

We may also sell the securities offered by this prospectus in an “at the market offering” as defined in Rule 415 under the Securities Act. Such offering may be made into an existing trading market for such securities in transactions at other than a fixed price, either:

- on or through the facilities of Nasdaq or any other securities exchange or quotation or trading service on which such securities may be listed, quoted or traded at the time of sale; and/or
- to or through a market maker other than on Nasdaq or such other securities exchanges or quotation or trading services.

We may directly solicit offers to purchase securities, or agents may be designated to solicit such offers. We will, in the accompanying prospectus supplement relating to such offering, name any agent that could be viewed as an underwriter under the Securities Act, and describe any commissions that we must pay. Any such agent will be acting on a best efforts basis for the period of its appointment or, if indicated in the accompanying prospectus supplement, on a firm commitment basis.

The distribution of the securities may be effected from time to time in one or more transactions:

- at a fixed price or prices, which may be changed;
- at market prices prevailing at the time of sale;
- at prices related to the prevailing market prices; or
- at negotiated prices.

Each prospectus supplement will describe the method of distribution of the securities and any applicable restrictions.

The prospectus supplement with respect to the securities of a particular series will describe the terms of the offering of the securities, including the following:

- the name of the agent or any underwriters;
- the public offering or purchase price and the proceeds we will receive from the sale of the securities;
- any discounts and commissions to be allowed or re-allowed or paid to the agent or underwriters;
- all other items constituting underwriting compensation;
- any discounts and commissions to be allowed or re-allowed or paid to dealers; and
- any exchanges on which the securities will be listed.

If any underwriters or agents are utilized in the sale of the securities in respect of which this prospectus is delivered, we will enter into an underwriting agreement or other agreement with them at the time of sale to them, and we will set forth in the accompanying prospectus supplement relating to such offering the names of the underwriters or agents and the terms of the related agreement with them.

If a dealer is utilized in the sale of the securities in respect of which this prospectus is delivered, we will sell such securities to the dealer, as principal. The dealer may then resell such securities to the public at varying prices to be determined by such dealer at the time of resale.

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Remarketing firms, agents, underwriters, dealers and other persons may be entitled under agreements which they may enter into with us to indemnification by us against certain civil liabilities, including liabilities under the Securities Act, and may be customers of, engage in transactions with or perform services for us in the ordinary course of business.

If so indicated in the accompanying prospectus supplement, we will authorize underwriters or other persons acting as our agents to solicit offers by certain institutions to purchase securities from us pursuant to delayed delivery contracts providing for payment and delivery on the date stated in the accompanying prospectus supplement. Each contract will be for an amount not less than, and the aggregate amount of securities sold pursuant to such contracts shall not be less nor more than, the respective amounts stated in the accompanying prospectus supplement. Institutions with whom the contracts, when authorized, may be made, include commercial and savings banks, insurance companies, pension funds, investment companies, educational and charitable institutions and other institutions, but shall in all cases be subject to our approval. Delayed delivery contracts will not be subject to any conditions except that:

- the purchase by an institution of the securities covered under that contract shall not, at the time of delivery, be prohibited under the laws of the jurisdiction to which that institution is subject; and
- if the securities are also being sold to underwriters acting as principals for their own account, the underwriters shall have purchased such securities not sold for delayed delivery. The underwriters and other persons acting as our agents will not have any responsibility in respect of the validity or performance of delayed delivery contracts.

Certain agents, underwriters and dealers, and their associates and affiliates may be customers of, have borrowing relationships with, engage in other transactions with, or perform services (including investment banking services) for us or one or more of our respective affiliates in the ordinary course of business.

In order to facilitate the offering of the securities, any underwriters may engage in transactions that stabilize, maintain or otherwise affect the price of the securities or any other securities the prices of which may be used to determine payments on such securities. Specifically, any underwriters may over-allot in connection with the offering, creating a short position for their own accounts. In addition, to cover overallocments or to stabilize the price of the securities or of any such other securities, the underwriters may bid for, and purchase, the securities or any such other securities in the open market. Finally, in any offering of the securities through a syndicate of underwriters, the underwriting syndicate may reclaim selling concessions allowed to an underwriter or a dealer for distributing the securities in the offering if the syndicate repurchases previously distributed securities in transactions to cover syndicate short positions, in stabilization transactions or otherwise. Any of these activities may stabilize or maintain the market price of the securities above independent market levels. Any such underwriters are not required to engage in these activities and may end any of these activities at any time.

Under Rule 15c6-1 of the Exchange Act, trades in the secondary market generally are required to settle in two business days, unless the parties to any such trade expressly agree otherwise. The accompanying prospectus supplement may provide that the original issue date for your securities may be more than two scheduled business days after the trade date for your securities. Accordingly, in such a case, if you wish to trade securities on any date prior to the second business day before the original issue date for your securities, you will be required, by virtue of the fact that your securities initially are expected to settle more than two scheduled business days after the trade date for your securities, to make alternative settlement arrangements to prevent a failed settlement.

PLAN OF DISTRIBUTION FOR SHARES OFFERED BY SELLING STOCKHOLDERS

On behalf of the selling stockholders, we are registering 35,674,463 shares of our common stock for resale by the selling stockholders at such times and at such places as they choose. The decision to sell any such shares is within the sole discretion of the holders thereof.

The distribution of the common stock by a selling stockholder may be effected from time to time in one or more transactions. Any of the common stock may be offered for sale, from time to time, by a selling stockholder, or by permitted transferees or successors of the selling stockholder, or otherwise, at prices and on terms then obtainable, at fixed prices, at prices then prevailing at the time of sale, at prices related to such prevailing prices, or in negotiated transactions at negotiated prices or otherwise. The common stock may be sold by one or more of the following:

- On Nasdaq or any other national common stock exchange or automated quotation system on which our common stock is traded, which may involve transactions solely between a broker-dealer and its customers which are not traded across an open market and block trades.
- Through one or more dealers or agents (which may include one or more underwriters).
- Block trades in which the broker or dealer as principal and resale by such broker or dealer for its account pursuant to this prospectus.
- Purchases by a broker or dealer as principal and resale by such broker or dealer for its account pursuant to this prospectus.
- Ordinary brokerage transactions (including pursuant to 10b5-1 plans).
- Transactions in which the broker solicits purchasers.
- Directly to one or more purchasers.
- A combination of these methods.

In connection with the distribution of the common stock or otherwise, the selling stockholders may enter into hedging transactions with broker-dealers or other financial institutions. In connection with such transactions, broker-dealers or other financial institutions may engage in short sales of shares in the course of hedging the positions they assume with the selling stockholder. The selling stockholders may also enter into options or other transactions with broker-dealers or other financial institutions which require the delivery to such broker-dealers or other financial institutions of the common stock, which shares such broker-dealers or financial institutions may resell pursuant to this prospectus, as supplemented or amended to reflect that transaction. The selling stockholders may also pledge the common stock registered hereunder to a broker-dealer or other financial institution and, upon a default, such broker-dealer or other financial institution may affect sales of the pledged shares pursuant to this prospectus, as supplemented or amended to reflect such transaction. In addition, any common stock covered by this prospectus that qualifies for sale pursuant to Rule 144 under the Securities Act may be sold under Rule 144 rather than pursuant to this prospectus.

The selling stockholders or their underwriters, dealers or agents may sell the common stock to or through underwriters, dealers or agents, and such underwriters, dealers or agents may receive compensation in the form of discounts or concessions allowed or reallowed. Underwriters, dealers, brokers or other agents engaged by the selling stockholders may arrange for other such persons to participate. Any fixed public offering price and any discounts and concessions may be changed from time to time. Underwriters, dealers and agents who participate in the distribution of the common stock may be deemed to be underwriters within the meaning of the Securities Act, and any discounts or commissions received by them or any profit on the resale of shares by them may be deemed to be underwriting discounts and commissions thereunder. The proposed amounts of the common stock, if any, to be purchased by underwriters and the compensation, if any, of underwriters, dealers or agents will be set forth in an accompanying prospectus supplement.

Unless granted an exemption by the SEC from Regulation M under the Exchange Act, or unless otherwise permitted under Regulation M, a selling stockholder will not engage in any stabilization activity in connection with our common stock, will furnish each broker or dealer engaged by a selling stockholder and each other participating broker or dealer the number of copies of this prospectus required by such broker or dealer, and will not bid for or purchase any common stock of ours or attempt to induce any person to purchase any of the common stock other than as permitted under the Exchange Act.

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We will not receive any proceeds from the sale of these shares of common stock offered by the selling stockholders. We are paying certain expenses (other than commissions and discounts of underwriters, brokers, dealers or agents) incidental to the offering and sale of the common stock by selling stockholders to the public. To the extent required, this prospectus may be amended or supplemented from time to time to describe a specific plan of distribution.

In order to comply with certain state securities laws, if applicable, the common stock will be sold in such jurisdictions only through registered or licensed brokers or dealers. In certain states the shares of common stock may not be sold unless they have been registered or qualify for sale in such state or an exemption from registration or qualification is available and is complied with.

LEGAL MATTERS

Unless otherwise indicated in any accompanying prospectus supplement, Skadden, Arps, Slate, Meagher & Flom LLP, New York, New York will provide opinions regarding the authorization and validity of the securities. Skadden, Arps, Slate, Meagher & Flom LLP, New York, New York may also provide opinions regarding certain other matters. Any underwriters will be advised about legal matters by their own counsel, which will be named in an accompanying prospectus supplement.

EXPERTS

The financial statements incorporated in this Prospectus by reference to FTC Solar, Inc.'s Current Report on Form 8-K dated June 13, 2022 have been so incorporated in reliance on the report (which contains an explanatory paragraph with respect to the matters that raise substantial doubt about the Company's ability to continue as a going concern discussed in Note 3) of PricewaterhouseCoopers LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.

WHERE YOU CAN FIND MORE INFORMATION; INCORPORATION BY REFERENCE

We file annual, quarterly and special reports and other information with the SEC. Our filings with the SEC, including the filings that are incorporated by reference in this prospectus and any accompanying prospectus supplement, are available to the public on the SEC's website at www.sec.gov. Those filings will also be available to the public on, or accessible through, our corporate website at www.ftcsolar.com. The information we file with the SEC or contained on or accessible through our corporate website or any other website that we may maintain is not incorporated by reference and is not part of this prospectus or any accompanying prospectus supplement.

The rules of the SEC allow us to incorporate by reference into this prospectus and any accompanying prospectus supplement the information we file with the SEC. This means that we are disclosing important information to you by referring to other documents. The information incorporated by reference is considered to be part of this prospectus and any accompanying prospectus supplement, except for any information superseded by information contained directly in this prospectus, any accompanying prospectus supplement, any subsequently filed document deemed incorporated by reference or any free writing prospectus prepared by or on behalf of us. This prospectus and any accompanying prospectus supplement incorporate by reference the documents set forth below that we have previously filed with the SEC (other than information deemed furnished and not filed in accordance with SEC rules, including Items 2.02 and 7.01 of Form 8-K).

- Annual Report on Form 10-K for the fiscal year ended December 31, 2021, filed on [March 21, 2022](#), of which Part II, Item 7 ("Management's Discussion and Analysis of Financial Condition and Results of Operations") and Part II, Item 8 ("Financial Statements and Supplementary Data") are superseded by the Current Report on Form 8-K, filed on [June 13, 2022](#);
- Quarterly Report on Form 10-Q for the quarter ended March 31, 2022, filed on [May 16, 2022](#);
- Current Reports on Form 8-K, filed on [January 27, 2022](#), [March 15, 2022](#), [April 5, 2022](#), [April 8, 2022](#), [June 2, 2022](#), [June 13, 2022](#) and [June 17, 2022](#), in each case other than information furnished under Item 2.02 or 7.01 of Form 8-K;
- The portions of the Definitive Proxy Statement on Schedule 14A, filed on [April 29, 2022](#), that are incorporated by reference into the Annual Report on Form 10-K for the fiscal year ended [December 31, 2021](#); and
- The description of common stock set forth in the Description of Registrant's Securities, filed as Exhibit 4.2 to the Annual Report on Form 10-K for the fiscal year ended [December 31, 2021](#).

All documents filed by us pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act prior to the termination of this offering, including all such documents we may file with the SEC after the date of the initial registration statement and prior to the effectiveness of the registration statement, shall be deemed to be incorporated herein by reference. We are not, however, incorporating by reference any documents or portions thereof that are not deemed "filed" with the SEC, including any information furnished pursuant to Items 2.02 or 7.01 of Form 8-K.

We will provide without charge to each person, including any beneficial owner, to whom a copy of this prospectus is delivered, upon written or oral request of such person, a copy of any or all of the documents referred

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to above which have been incorporated by reference in this prospectus but not delivered with this prospectus. You should direct requests for those documents to FTC Solar, Inc., 9020 N Capital of Texas Hwy, Suite I-260, Austin, Texas 78759, Attention: Bill Michalek (telephone: (737) 787-7906). Exhibits to any documents incorporated by reference in this prospectus will not be sent, however, unless those exhibits have specifically been incorporated by reference into such documents.

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 payable by us in connection with the offer and sale of the securities being registered hereby.

Expenses of Issuance and Distribution (\$ thousands)	\$Amount to be Paid
SEC registration fee	\$ 23,175
FINRA filing fee	\$57,023.41
Transfer agent, trustee and registrar fees	*
Printing expenses	*
Legal fees and expenses	*
Accounting fees and expenses	*
Blue Sky fees and expenses	*
Miscellaneous expenses	*
Total	<u>\$80,198.41</u>

* Fees and expenses (other than the SEC registration fee to be paid upon the filing of this registration statement) will depend on the number and nature of the offerings, and cannot be estimated at this time. An estimate of the aggregate expenses in connection with the issuance and distribution of securities being offered will be included in any applicable prospectus supplement.

We will bear all costs, expenses and fees in connection with the registration of the securities being registered hereby, including with regard to compliance with state securities or “blue sky” laws. The selling stockholders, however, will bear all underwriting commissions and discounts, if any, attributable to their sale of shares of common stock.

Item 15. Indemnification of Directors and Officers.

Section 102(b)(7) of the DGCL permits a corporation to provide in its certificate of incorporation that a director of the corporation shall not be personally liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except for liability (i) for any breach of the director’s duty of loyalty to the corporation or its stockholders, (ii) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (iii) for unlawful payment of dividends or unlawful stock purchases or redemptions or (iv) for any transaction from which the director derived an improper personal benefit. Our certificate of incorporation contains such a provision.

Section 145 of the DGCL provides that a corporation may indemnify directors and officers as well as other employees and individuals against expenses (including attorneys’ fees), judgments, fines and amounts paid in settlement in connection with specified actions, suits or proceedings, whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation—a “derivative action”), if they acted in good faith and in a manner they 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 their conduct was unlawful. A similar standard is applicable in the case of derivative actions, except that indemnification only extends to expenses (including attorneys’ fees) incurred in connection with defense or settlement of such action, and the statute requires court approval before there can be any indemnification where the person seeking indemnification has been found liable to the corporation. Our certificate of incorporation and bylaws contain such a provision.

We have in effect a directors and officers liability insurance policy indemnifying our directors and officers for certain liabilities incurred by them, including liabilities under the Securities Act and the Exchange Act. We pay the entire premium of this policy.

We are party to indemnification agreements with each of our directors and executive officers. These agreements require us to indemnify these individuals to the fullest extent permitted under Section 145 of the DGCL against liabilities that may arise by reason of their service to us, and to advance expenses incurred as a result of any proceeding against them as to which they could be indemnified.

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These indemnification provisions and the indemnification agreements may be sufficiently broad to permit indemnification of our directors and executive officers for liabilities (including reimbursement of expenses incurred) arising under the Securities Act.

Any underwriting agreement or similar agreement that we enter into in connection with an offer of securities pursuant to this registration statement may provide that the underwriters are obligated, under certain circumstances, to indemnify our directors, officers and controlling persons against certain liabilities, including liabilities arising under the Securities Act. Insofar as the foregoing provisions permit indemnification of directors, executive officers or persons controlling us for liability arising under the Securities Act we have been informed that, in the opinion of the SEC, such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

Item 16. Exhibits.

The Exhibits listed on the accompanying Exhibit Index immediately preceding the signature pages hereto are incorporated by reference as if fully set forth herein.

Item 17. Undertakings.

The undersigned registrant hereby undertakes:

- (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
 - (i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;
 - (ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement;
 - (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 SEC by the registrant pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in this registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of this registration statement;

- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.
- (4) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:
 - (i) Each prospectus filed by the registrant pursuant to Rule 424(b)(3) shall be deemed to be part of this registration statement as of the date the filed prospectus was deemed part of and included in this 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 this 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 this registration statement or made in a document incorporated or deemed incorporated by reference into this registration statement or prospectus that is part of this 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 this registration statement or prospectus that was part of this registration statement or made in any such document immediately prior to such effective date.

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

EXHIBIT INDEX

Exhibit Number	Description
1.1	Form of Underwriting Agreement ^(a)
4.1	Amended and Restated Certificate of Incorporation of FTC Solar, Inc. (filed as Exhibit 3.1 to the Registrant's Current Report on Form 8-K filed with the SEC on May 3, 2021 and incorporated herein by reference)
4.2	Amended and Restated Bylaws of FTC Solar, Inc (filed as Exhibit 3.2 to the Registrant's Current Report on Form 8-K filed with the SEC on May 3, 2021 and incorporated herein by reference)
4.3	Certificate of Correction of Amended and Restated Certificate of Incorporation (filed as Exhibit 3.3 to the Registrant's Quarterly Report on Form 10-Q filed with the SEC on June 8, 2021 and incorporated herein by reference)
4.4	Specimen Common Stock Certificate (filed as Exhibit 4.1 to the Registrant's Registration Statement on Form S-1 filed with the SEC on April 19, 2021 and incorporated herein by reference)
4.5	Specimen Preferred Stock Certificate and Form of Certificate of Designation, Preferences and Rights with respect to any series of Preferred Stock issued hereunder ^(a)
4.6	Form of Indenture ^(b)
4.7	Form of Debt Security ^(a)
4.8	Form of Warrant Agreement (including Form of Warrant Certificate) ^(a)
5.1	Opinion of Skadden, Arps, Slate, Meagher & Flom LLP ^(b)
23.1	Consent of PricewaterhouseCoopers LLP ^(b)
23.2	Consent of Skadden, Arps, Slate, Meagher & Flom LLP (included in Exhibit 5.1) ^(b)
24.1	Power of Attorney (included in signature page) ^(b)
25.1	Form T-1 Statement of Eligibility under the Trust Indenture Act of 1939, as amended, of Wilmington Trust, National Association, as trustee under the Indenture ^(b)
107	Filing Fee Table ^(b)

(a) To be filed by amendment to the registration statement or incorporated by reference from documents filed or to be filed with the SEC under the Securities Exchange Act of 1934, as amended.

(b) Filed herewith.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, FTC Solar, Inc. 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 Austin, State of Texas, on June 24, 2022.

FTC SOLAR, INC.

By: /s/ Sean Hunkler

Name: Sean Hunkler

Title: Chief Executive Officer

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENT, that each person whose signature appears below constitutes and appoints Sean Hunkler and Phelps Morris, and each of them, as his or her true and lawful attorneys-in-fact and agents, with full power of substitution for him or her in any and all capacities, to sign (i) any and all amendments (including post-effective amendments) to this registration statement and (ii) any registration statement or post-effective amendment thereto to be filed with the Securities and Exchange Commission pursuant to Rule 462(b) under the Securities Act of 1933, as amended, 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 might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or any of them, or their or his substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

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

<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Sean Hunkler</u> Sean Hunkler	Chief Executive Officer and Director (Principal Executive Officer)	June 24, 2022
<u>/s/ Phelps Morris</u> Phelps Morris	Chief Financial Officer (Principal Financial Officer)	June 24, 2022
<u>/s/ M. Cathy Behnen</u> M. Cathy Behnen	Chief Accounting Officer (Principal Accounting Officer)	June 24, 2022
<u>/s/ T.J. Rodgers</u> T.J. Rodgers	Director	June 24, 2022
<u>/s/ David Springer</u> David Springer	Director	June 24, 2022
<u>/s/ Ahmad Chatila</u> Ahmad Chatila	Director	June 24, 2022
<u>/s/ William Aldeen (“Dean”) Priddy, Jr.</u> William Aldeen (“Dean”) Priddy, Jr.	Director	June 24, 2022

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<u>Signature</u>	<u>Title</u>	<u>Date</u>
<u>/s/ Isidoro Quiroga Cortés</u> Isidoro Quiroga Cortés	Director	June 24, 2022
<u>/s/ Shaker Sadasivam</u> Shaker Sadasivam	Director	June 24, 2022
<u>/s/ Lisan Hung</u> Lisan Hung	Director	June 24, 2022

FTC SOLAR, INC.

INDENTURE

Dated as of

_____, _____

DEBT SECURITIES

Wilmington Trust, National Association

Trustee

**Reconciliation and tie between
Trust Indenture Act of 1939 and Indenture***

Trust Indenture Act Section	Indenture Section
§ 310 (a)	11.04(a), 16.02
(b)	11.01(f), 11.04(b), 11.05(1), 16.02
(b)(1)	11.04(b), 16.02
§ 311	11.01(f), 16.02
§ 312	14.02(d), 16.02
(b)	11.10, 16.02
(c)	11.10, 16.02
§ 313 (a)	10.01(a), 16.02
§ 314	16.02
§ 315 (e)	11.05, 16.02
§ 316	16.02
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§ 318	16.02

*This reconciliation and tie shall not, for any purpose, be deemed to be a part of the Indenture.

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INDENTURE dated as of _____, _____, among FTC Solar, Inc., a Delaware corporation (the “Company”), and Wilmington Trust, National Association, as trustee (the “Trustee”).

WITNESSETH:

WHEREAS, the Company has duly authorized the execution and delivery of this Indenture to provide for the issuance of unsecured debentures, notes, bonds or other evidences of indebtedness (the “Securities”) in an unlimited aggregate principal amount to be issued from time to time in one or more series as provided in this Indenture; and

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

NOW, THEREFORE, THIS INDENTURE WITNESSETH:

That, in consideration of the premises and the purchase of the Securities by the Holders thereof for the equal and proportionate benefit of all of the present and future Holders of the Securities, each party agrees and covenants as follows:

ARTICLE I

DEFINITIONS

For all purposes of this Indenture, except as otherwise expressly provided or unless the context otherwise requires:

- (a) the terms defined in this Article have the meanings assigned to them in this Article and include the plural as well as the singular;
 - (b) unless otherwise defined in this Indenture or the context otherwise requires, all terms used herein without definition which are defined in the Trust Indenture Act, either directly or by reference therein, have the meanings assigned to them therein;
 - (c) 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; and
 - (d) references to “Article” or “Section” or other subdivision herein are references to an Article, Section or other subdivision of this Indenture, unless the context otherwise requires.
-

Unless the context otherwise requires, the terms defined in this Section 1.01 shall for all purposes of this Indenture have the meanings hereinafter set forth:

Affiliate:

The term "Affiliate," with respect to any specified Person shall mean 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" shall have the meaning assigned to it in Section 11.09.

Board of Directors:

The term "Board of Directors" shall mean either the board of directors of the Company or the executive or any other committee of that board duly authorized to act in respect hereof.

Board Resolution:

The term "Board Resolution" shall mean a copy of a resolution or resolutions certified by the Secretary or an Assistant Secretary of the Company to have been duly adopted by the Board of Directors (or by a committee of the Board of Directors to the extent that any such other committee has been authorized by the Board of Directors to establish or approve the matters contemplated) 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 referred to in this Indenture or in the Securities, shall mean each Monday, Tuesday, Wednesday, Thursday and Friday which is not a day on which banking institutions in that Place of Payment or such location are authorized or obligated by law or executive order to close.

Capital Stock:

The term "Capital Stock" shall mean:

- (a) in the case of a corporation, corporate stock;
- (b) in the case of an association or business entity, any and all shares, interests, participations, rights or other equivalents (however designated) of corporate stock;
- (c) in the case of a partnership or limited liability company, partnership interests (whether general or limited) or membership interests; and
- (d) any other interest or participation that confers on a Person the right to receive a share of the profits and losses of, or distributions of assets of, the issuing Person, but excluding from all of the foregoing any debt securities convertible into Capital Stock, whether or not such debt securities include any right of participation with Capital Stock.

Code:

The term “Code” shall mean the Internal Revenue Code of 1986, as amended.

Company:

The term “Company” shall mean the Person named as the “Company” in the first paragraph of this Indenture until a successor Person shall have become such pursuant to the applicable provisions of this Indenture, and thereafter “Company” shall mean such successor Person.

Company Order:

The term “Company Order” shall mean a written order signed in the name of the Company by any Officer and delivered to the Trustee.

Corporate Trust Office:

The term “Corporate Trust Office,” or other similar term, shall mean the principal office of the Trustee at which at any particular time its corporate trust business shall be administered, which office at the date hereof is located at 1100 North Market Street, Wilmington, Delaware 19890, Attention: FTC Solar Notes Administrator, or such other address as the Trustee may designate from time to time by notice to the Holders and the Company, or the principal corporate trust officer of any successor Trustee (or such other address as such successor Trustee may designate from time to time by notice to the Holders and the Company).

Currency:

The term “Currency” shall mean U.S. Dollars or Foreign Currency.

Default:

The term “Default” shall have the meaning assigned to it in Section 11.03.

Defaulted Interest:

The term “Defaulted Interest” shall have the same meaning assigned to it in Section 3.08(b).

Depository:

The term “Depository” shall mean, with respect to the Securities of any series issuable in whole or in part in the form of one or more Global Securities, each Person designated as Depository by the Company pursuant to Section 3.01 until one or more successor Depositories shall have become such pursuant to the applicable provisions of this Indenture, and thereafter “Depository” shall mean or include each Person who is then a Depository hereunder, and if at any time there is more than one such Person, “Depository” as used with respect to the Securities of any such series shall mean the Depository with respect to the Securities of that series.

Designated Currency:

The term “Designated Currency” shall have the same meaning assigned to it in Section 3.12.

Discharged:

The term “Discharged” shall have the meaning assigned to it in Section 12.03.

DTC:

The term “DTC” shall mean The Depository Trust Company, Inc. and its successors.

Event of Default:

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

Exchange Act:

The term “Exchange Act” shall mean the United States Securities Exchange Act of 1934, and the rules and regulations promulgated by the SEC thereunder and any statute successor thereto, in each case as amended from time to time.

Exchange Rate:

The term “Exchange Rate” shall have the meaning assigned to it in Section 7.01.

Floating Rate Security:

The term “Floating Rate Security” shall mean a Security that provides for the payment of interest at a variable rate determined periodically by reference to an interest rate index specified pursuant to Section 3.01.

Foreign Currency:

The term “Foreign Currency” shall mean a currency issued by the government of any country other than the United States or a composite currency, the value of which is determined by reference to the values of the currencies of any group of countries.

GAAP:

The term “GAAP,” with respect to any computations required or permitted hereunder, shall mean generally accepted accounting principles in effect in the United States as in effect from time to time; provided, however, if the Company is required by the SEC to adopt (or is permitted to adopt and so adopts) a different accounting framework, including but not limited to the International Financial Reporting Standards, “GAAP” shall mean such new accounting framework as in effect from time to time, including, without limitation, in each case, those accounting principles set forth in the opinions and pronouncements of the Accounting Principles Board of the American Institute of Certified Public Accountants and statements and pronouncements of the Financial Accounting Standards Board or in such other statements by such other entity as approved by a significant segment of the accounting profession. If at any time any change in GAAP would affect the computation of any financial ratio or requirement set forth in this Agreement, and either the Company or the Holders of a majority of outstanding notes shall so request, the Company and the Holders of a majority of outstanding notes shall negotiate in good faith to amend such ratio or requirement to preserve the original intent thereof in light of such change in GAAP (subject to the approval of the Holders of a majority of outstanding notes); provided that, until so amended, (i) such ratio or requirement shall continue to be computed in accordance with GAAP prior to such change therein and (ii) the Company shall provide to the holders financial statements and other documents required under this Agreement or as reasonably requested hereunder setting forth a reconciliation between calculations of such ratio or requirement made before and after giving effect to such change in GAAP.

Global Security:

The term “Global Security” shall mean any Security that evidences all or part of a series of Securities, issued in fully-registered certificated form to the Depository for such series in accordance with Section 3.03 and bearing the legend prescribed in Section 3.03(g).

Holder; Holder of Securities:

The terms “Holder” and “Holder of Securities” are defined under “Securityholder; Holder of Securities; Holder.”

Indebtedness:

The term “Indebtedness” shall mean any and all obligations of a Person for money borrowed which, in accordance with GAAP, would be reflected on the balance sheet of such Person as a liability on the date as of which Indebtedness is to be determined.

Indenture:

The term “Indenture” or “this Indenture” shall mean this instrument as originally executed or as it may from time to time be supplemented or amended by one or more indentures supplemental hereto entered into pursuant to the applicable provisions hereof, including, for all purposes of this instrument and any such supplemental indenture, the provisions of the Trust Indenture Act that are deemed to be a part of and govern this instrument and any such supplemental indenture, respectively. The term “Indenture” shall also include the terms of particular series of Securities established as contemplated by Section 3.01; provided, however, that if at any time more than one Person is acting as Trustee under this Indenture due to the appointment of one or more separate Trustees for any one or more separate series of Securities, “Indenture” shall mean, with respect to such series of Securities for which any such Person is Trustee, this instrument as originally executed or as it may from time to time be supplemented or amended by one or more indentures supplemental hereto entered into pursuant to the applicable provisions hereof and shall include the terms of particular series of Securities for which such Person is Trustee established as contemplated by Section 3.01, exclusive, however, of any provisions or terms which relate solely to other series of Securities for which such Person is not Trustee, regardless of when such terms or provisions were adopted, and exclusive of any provisions or terms adopted by means of one or more indentures supplemental hereto executed and delivered after such person had become such Trustee, but to which such person, as such Trustee, was not a party; provided, further, that in the event that this Indenture is supplemented or amended by one or more indentures supplemental hereto which are only applicable to certain series of Securities, the term “Indenture” for a particular series of Securities shall only include the supplemental indentures applicable thereto.

Individual Securities:

The term “Individual Securities” shall have the meaning specified in Section 3.01(p).

Interest:

The term “interest” shall mean, unless the context otherwise requires, interest payable on any Securities, and with respect to an Original Issue Discount Security that by its terms bears interest only after Maturity, interest payable after Maturity.

Interest Payment Date:

The term “Interest Payment Date” shall mean, with respect to any Security, the Stated Maturity of an installment of interest on such Security.

Mandatory Sinking Fund Payment:

The term “Mandatory Sinking Fund Payment” shall have the meaning assigned to it in Section 5.01(b).

Maturity:

The term “Maturity,” with respect to any Security, shall mean the date on which the principal of such Security shall become due and payable as therein and herein provided, whether by declaration, call for redemption or otherwise.

Members:

The term “Members” shall have the meaning assigned to it in Section 3.03(i).

Officer:

The term “Officer” shall mean the Chairman of the Board of Directors, the Chief Executive Officer, the Chief Commercial Officer, the Chief Financial Officer, the Treasurer, any Assistant Treasurer, the Controller, the Secretary or any Assistant Secretary and any Vice President of the Company.

Officer's Certificate:

The term "Officer's Certificate" shall mean a certificate signed by any Officer and delivered to the Trustee. Each such certificate shall include the statements provided for in Section 16.01 if and to the extent required by the provisions of such Section.

Opinion of Counsel:

The term "Opinion of Counsel" shall mean an opinion in writing signed by one or more legal counsel, who may be an employee of or of counsel to the Company, and meets the requirements provided for in Section 16.01.

Optional Sinking Fund Payment:

The term "Optional Sinking Fund Payment" shall have the meaning assigned to it in Section 5.01(b).

Original Issue Discount Security:

The term "Original Issue Discount Security" shall mean any Security that is issued with "original issue discount" within the meaning of Section 1273(a) of the Code and the regulations thereunder, or any successor provision, and any other Security designated by the Company as issued with original issue discount for United States federal income tax purposes.

Outstanding:

The term "Outstanding," when used with respect to Securities means, as of the date of determination, all Securities theretofore authenticated and delivered under this Indenture, except:

(a) Securities theretofore canceled by the Trustee or delivered to the Trustee for cancellation;

(b) Securities or portions thereof for which payment or redemption money in the necessary amount 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 Securities or Securities as to which the Company's obligations have been Discharged; provided, however, that if such Securities or portions thereof 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; and

(c) Securities that have been paid pursuant to Section 3.07(b) or in exchange for or in lieu of which other Securities have been authenticated and delivered pursuant to this Indenture, other than any such Securities in respect of which there shall have been presented to a Responsible Officer of the Trustee proof satisfactory to it that such Securities are held by a protected purchaser in whose hands such Securities are valid obligations of the Company;

provided, however, that in determining whether the Holders of the requisite principal amount of Securities of a series Outstanding have performed any action hereunder, Securities owned by the Company or any other obligor upon the Securities of such series or any Affiliate of the Company or of such other obligor shall be disregarded and deemed not to be Outstanding, except that, in determining whether the Trustee shall be protected in relying upon any such action, only Securities of such series that a Responsible Officer of the Trustee actually knows to be so owned shall be so disregarded. Securities so owned that 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 to act with respect to such Securities and that the pledgee is not the Company or any other obligor upon such Securities or any Affiliate of the Company or of such other obligor. In determining whether the Holders of the requisite principal amount of Outstanding Securities of a series have performed any action hereunder, the principal amount of an Original Issue Discount Security that shall be deemed to be Outstanding for such purpose 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 7.02 and the principal amount of a Security denominated in a Foreign Currency that shall be deemed to be Outstanding for such purpose shall be the amount calculated pursuant to Section 3.11(b).

Paying Agent:

The term "Paying Agent" shall have the meaning assigned to it in Section 6.02(a).

Person:

The term "Person" shall mean any individual, a corporation, a limited liability company, a partnership, an association, a joint stock company, a trust, an unincorporated organization or a government or an agency or political subdivision thereof or other entity.

Place of Payment:

The term "Place of Payment" shall mean, when used with respect to the Securities of any series, the place or places where the principal of and premium, if any, and interest on the Securities of that series are payable as specified pursuant to Section 3.01.

Predecessor Security:

The term "Predecessor Security" shall mean, with respect to any Security, every previous Security evidencing all or a portion of the same Indebtedness as that evidenced by such particular Security, and, for the purposes of this definition, any Security authenticated and delivered under Section 3.07 in lieu of a lost, destroyed or stolen Security shall be deemed to evidence the same Indebtedness as the lost, destroyed or stolen Security.

Record Date:

The term “Record Date” shall mean, with respect to any interest payable on any Security on any Interest Payment Date, any date specified in such Security or pursuant to Section 3.01 with respect to such Security as the record date for the payment of interest.

Redemption Date:

The term “Redemption Date” shall mean, when used with respect to any Security to be redeemed, in whole or in part, the date fixed for such redemption by or pursuant to this Indenture and the terms of such Security, which, in the case of a Floating Rate Security, unless otherwise specified pursuant to Section 3.01, shall be an Interest Payment Date only.

Redemption Price:

The term “Redemption Price,” when used with respect to any Security to be redeemed, in whole or in part, shall mean the price at which it is to be redeemed pursuant to the terms of the applicable Security and this Indenture.

Register:

The term “Register” shall have the meaning assigned to it in Section 3.05(a).

Registrar:

The term “Registrar” shall have the meaning assigned to it in Section 3.05(a).

Responsible Officers:

The term “Responsible Officers” of the Trustee hereunder shall mean any vice president, any assistant vice president, any trust officer, any assistant trust officer, secretary, associate or any other officer associated with the corporate trust department of the Trustee customarily performing functions similar to those performed by any of the above designated officers, and also means, with respect to a particular corporate trust matter relating to this Indenture, any other officer of the Trustee to whom such matter is referred because of such person’s knowledge of and familiarity with the particular subject and who, in each case, shall have direct responsibility for the administration of this Indenture.

SEC:

The term “SEC” shall mean the United States Securities and Exchange Commission, as constituted from time to time.

Security:

The term “Security” or “Securities” shall have the meaning stated in the recitals and shall more particularly mean one or more of the Securities duly authenticated by the Trustee and delivered pursuant to the provisions of this Indenture.

Security Custodian:

The term “Security Custodian” shall mean the custodian with respect to any Global Security appointed by the Depositary, or any successor Person thereto, and shall initially be the Trustee.

Securityholder; Holder of Securities; Holder:

The term “Securityholder” or “Holder of Securities” or “Holder,” shall mean the Person in whose name Securities shall be registered in the Register kept for that purpose hereunder.

Senior Indebtedness:

The term “Senior Indebtedness” means the principal of (and premium, if any) and unpaid interest on (x) Indebtedness of the Company, whether outstanding on the date hereof or thereafter created, incurred, assumed or guaranteed, for money borrowed other than (a) any Indebtedness of the Company which when incurred, and without respect to any election under Section 1111(b) of the Federal Bankruptcy Code, was without recourse to the Company, (b) any Indebtedness of the Company to any of its Subsidiaries, (c) Indebtedness to any employee of the Company, (d) any liability for taxes, (e) Trade Payables and (f) any Indebtedness of the Company which is expressly subordinate in right of payment to any other Indebtedness of the Company, and (y) renewals, extensions, modifications and refundings of any such Indebtedness. For purposes of the foregoing and the definition of “Senior Indebtedness,” the phrase “subordinated in right of payment” means debt subordination only and not lien subordination, and accordingly, (i) unsecured indebtedness shall not be deemed to be subordinated in right of payment to secured indebtedness merely by virtue of the fact that it is unsecured, and (ii) junior liens, second liens and other contractual arrangements that provide for priorities among Holders of the same or different issues of indebtedness with respect to any collateral or the proceeds of collateral shall not constitute subordination in right of payment. This definition may be modified or superseded by a supplemental indenture.

Special Record Date:

The term “Special Record Date” shall have the meaning assigned to it in Section 3.08(b)(i).

Stated Maturity:

The term “Stated Maturity” when used with respect to any Security or any installment of interest thereon, shall mean the date specified in such Security or pursuant to Section 3.01 with respect to such Security as the fixed date on which the principal (or any portion thereof) of or premium, if any, on such Security or such installment of interest is due and payable.

Subsidiary:

The term “Subsidiary,” when used with respect to any Person, shall mean with respect to any Person, a corporation, partnership association, joint venture, trust, limited liability company or other business entity which is required to be consolidated with such Person in accordance with GAAP.

Successor Company:

The term "Successor Company" shall have the meaning assigned to it in Section 3.06(h).

Trade Payables:

The term "Trade Payables" means accounts payable or any other Indebtedness or monetary obligations to trade creditors created or assumed by the Company or any Subsidiary of the Company in the ordinary course of business (including guarantees thereof or instruments evidencing such liabilities).

Trust Indenture Act; TIA:

The term "Trust Indenture Act" or "TIA" shall mean the Trust Indenture Act of 1939, as amended, and the rules and regulations thereunder as in effect on the date of this Indenture, except as provided in Section 14.06 and except to the extent any amendment to the Trust Indenture Act expressly provides for application of the Trust Indenture Act as in effect on another date.

Trustee:

The term "Trustee" shall mean the Person named as the "Trustee" in the first paragraph of this Indenture until a successor Trustee shall have become such with respect to one or more series of Securities pursuant to the applicable provisions of this Indenture, and thereafter "Trustee" shall mean or include each Person who is then a Trustee hereunder, and if at any time there is more than one such Person, "Trustee" as used with respect to the Securities of any series shall mean the Trustee with respect to Securities of that series.

U.S. Dollars:

The term "U.S. Dollars" shall mean such currency of the United States as at the time of payment shall be legal tender for the payment of public and private debts.

U.S. Government Obligations:

The term "U.S. Government Obligations" shall have the meaning assigned to it in Section 12.03.

United States:

The term "United States" shall mean the United States of America, its territories and possessions, any State of the United States and the District of Columbia.

ARTICLE II

FORMS OF SECURITIES

Section 2.01 Terms of the Securities.

(a) The Securities of each series shall be substantially in the form set forth in a Board Resolution, a Company Order or in one or more indentures supplemental hereto, and shall have such appropriate insertions, omissions, substitutions and other variations as are required or permitted by this Indenture, and may have such letters, numbers or other marks of identification or designation and such legends or endorsements placed thereon as the Company may deem appropriate and as are not inconsistent with the provisions of this Indenture, or as may be required to comply with any law or with any rule or regulation made pursuant thereto or with any rule or regulation of any securities exchange on which any series of the Securities may be listed or of any automated quotation system on which any such series may be quoted, or to conform to usage, all as determined by any of the officers executing such Securities as conclusively evidenced by their execution of such Securities.

(b) The terms and provisions of the Securities shall constitute, and are hereby expressly made, a part of this Indenture, and, to the extent applicable, the Company and the Trustee, by their execution and delivery of this Indenture expressly agree to such terms and provisions and to be bound thereby.

Section 2.02 Form of Trustee's Certificate of Authentication.

(a) Only such of the Securities as shall bear thereon a certificate substantially in the form of the Trustee's certificate of authentication hereinafter recited, executed by the Trustee by manual signature, shall be valid or become obligatory for any purpose or entitle the Holder thereof to any right or benefit under this Indenture.

(b) Each Security shall be dated the date of its authentication, except that any Global Security shall be dated as of the date specified as contemplated in Section 3.01.

(c) The form of the Trustee's certificate of authentication to be borne by the Securities shall be substantially as follows:

TRUSTEE'S CERTIFICATE OF AUTHENTICATION

This is one of the Securities of the series designated therein referred to in the within-mentioned Indenture.

Date of authentication: _____

Wilmington Trust, National Association, as Trustee

By:
Authorized Signatory

Section 2.03 Form of Trustee's Certificate of Authentication by an Authenticating Agent. If at any time there shall be an Authenticating Agent appointed with respect to any series of Securities, then the Trustee's Certificate of Authentication by such Authenticating Agent to be borne by Securities of each such series shall be substantially as follows:

TRUSTEE'S CERTIFICATE OF AUTHENTICATION

This is one of the Securities of the series designated therein referred to in the within-mentioned Indenture.

Date of authentication: _____

Wilmington Trust, National Association, as Trustee

By:
as Authenticating Agent

By:
Authorized Signatory

ARTICLE III

THE DEBT SECURITIES

Section 3.01 Amount Unlimited; Issuable in Series. The aggregate principal amount of Securities that may be authenticated and delivered under this Indenture is unlimited. The Securities may be issued in one or more series. The title and terms on each series of Securities shall be as set forth in a Board Resolution, Company Order or in one or more indentures supplemental hereto, prior to the issuance of Securities of any series:

(a) the title of the Securities of the series (which shall distinguish the Securities of such series from the Securities of all other series, except to the extent that additional Securities of an existing series are being issued);

(b) any limit upon the aggregate principal amount of the Securities of the series that may be authenticated and delivered under this Indenture (except for Securities authenticated and delivered upon transfer of, or in exchange for, or in lieu of, other Securities of such series pursuant to Section 3.04, 3.06, 3.07, 4.06, or 14.05);

(c) the dates on which or periods during which the Securities of the series may be issued, and the dates on, or the range of dates within, which the principal of and premium, if any, on the Securities of such series are or may be payable or the method by which such date or dates shall be determined or extended;

(d) the rate or rates at which the Securities of the series shall bear interest, if any, or the method by which such rate or rates shall be determined, whether such interest shall be payable in cash or additional Securities of the same series or shall accrue and increase the aggregate principal amount outstanding of such series (including if such Securities were originally issued at a discount), the date or dates from which such interest shall accrue, or the method by which such date or dates shall be determined, the Interest Payment Dates on which any such interest shall be payable, and the Record Dates for the determination of Holders to whom interest is payable on such Interest Payment Dates or the method by which such date or dates shall be determined, the right, if any, to extend or defer interest payments and the duration of such extension or deferral;

(e) if other than U.S. Dollars, the Foreign Currency in which Securities of the series shall be denominated or in which payment of the principal of, premium, if any, or interest on the Securities of the series shall be payable and any other terms concerning such payment;

(f) if the amount of payment of principal of, premium, if any, or interest on the Securities of the series may be determined with reference to an index, formula or other method including, but not limited to, an index based on a Currency or Currencies other than that in which the Securities are stated to be payable, the manner in which such amounts shall be determined;

(g) if the principal of, premium, if any, or interest on Securities of the series are to be payable, at the election of the Company or a Holder thereof, in a Currency other than that in which the Securities are denominated or stated to be payable without such election, the period or periods within which, and the terms and conditions upon which, such election may be made and the time and the manner of determining the exchange rate between the Currency in which the Securities are denominated or payable without such election and the Currency in which the Securities are to be paid if such election is made;

(h) the place or places, if any, in addition to or instead of the Corporate Trust Office of the Trustee where the principal of, premium, if any, and interest on Securities of the series shall be payable, and where Securities of any series may be presented for registration of transfer, exchange or conversion, and the place or places where notices and demands to or upon the Company in respect of the Securities of such series may be made;

(i) the price or prices at which, the period or periods within which or the date or dates on which, and the terms and conditions upon which Securities of the series may be redeemed, in whole or in part, at the option of the Company, if the Company is to have that option;

(j) the obligation or right, if any, of the Company to redeem, purchase or repay Securities of the series pursuant to any sinking fund, amortization or analogous provisions or at the option of a Holder thereof and the price or prices at which, the period or periods within which or the date or dates on which, the Currency or Currencies in which and the terms and conditions upon which Securities of the series shall be redeemed, purchased or repaid, in whole or in part, pursuant to such obligation;

(k) if other than minimum denominations of \$2,000 and any integral multiple of \$1,000 in excess thereof, the denominations in which Securities of the series shall be issuable;

(l) if other than the principal amount thereof, the portion of the principal amount of the Securities of the series which shall be payable upon declaration of acceleration of the Maturity thereof pursuant to Section 7.02;

(m) the guarantors, if any, of the Securities of the series, and the extent of the guarantees (including provisions relating to seniority, subordination, and the release of the guarantors), if any, and any additions or changes to permit or facilitate guarantees of such Securities;

(n) whether the Securities of the series are to be issued as Original Issue Discount Securities and the amount of discount with which such Securities may be issued;

(o) if the provisions of Article XII hereof shall not be applicable with respect to the Securities of such series; or any addition to or change in the provisions of Article XII and, if the Securities of any series are payable in a Currency other than U.S. Dollars, the Currency or the nature of the government obligations to be deposited with the Trustee pursuant to Section 12.08;

(p) whether the Securities of the series are to be issued in whole or in part in the form of one or more Global Securities and, in such case, the Depositary for such Global Security or Global Securities, and the terms and conditions, if any, upon which interests in such Global Security or Global Securities may be exchanged in whole or in part for the individual securities represented thereby in definitive form registered in the name or names of Persons other than such Depositary or a nominee or nominees thereof ("Individual Securities");

(q) the date as of which any Global Security of the series shall be dated if other than the original issuance of the first Security of the series to be issued;

(r) the form or forms of the Securities of the series including such legends as may be required by applicable law;

(s) if the Securities of the series are to be convertible into or exchangeable for any securities or property of any Person (including the Company), the terms and conditions upon which such Securities will be so convertible or exchangeable, and any additions or changes, if any, to permit or facilitate such conversion or exchange;

(t) whether the Securities of such series are subject to subordination and the terms of such subordination (for avoidance of doubt, Article XV shall not apply to the Securities of any series unless the terms of such series expressly state it applies);

(u) whether the Securities of such series are to be secured and the terms of such security;

- (v) any restriction or condition on the transferability of the Securities of such series;
- (w) any addition or change in the provisions related to compensation and reimbursement of the Trustee which applies to Securities of such series;
- (x) any addition or change in the provisions related to supplemental indentures set forth in Sections 14.01, 14.02 and 14.04 which applies to Securities of such series;
- (y) provisions, if any, granting special rights to Holders upon the occurrence of specified events;
- (z) any addition to or change in the Events of Default which applies to any Securities of the series and any change in the right of the Trustee or the requisite Holders of such Securities to declare the principal amount thereof due and payable pursuant to Section 7.02 and any addition or change in the provisions set forth in Article VII which applies to Securities of the series;
- (aa) any addition to or change in the covenants set forth in Article VI which applies to Securities of the series; and
- (bb) any other terms of the Securities of such series (which terms shall not be inconsistent with the provisions of the TIA, but may modify, amend, supplement or delete any of the terms of this Indenture with respect to such series).

All Securities of any one series shall be substantially identical, except as to denomination and except as may otherwise be provided herein or set forth in a Board Resolution, a Company Order or in one or more indentures supplemental hereto.

Unless otherwise specified with respect to the Securities of any series pursuant to this Section 3.01, the Company may, at its option, at any time and from time to time, issue additional Securities of any series of Securities previously issued under this Indenture which together shall constitute a single series of Securities under this Indenture.

Section 3.02 Denominations. In the absence of any specification pursuant to Section 3.01 with respect to Securities of any series, the Securities of such series shall be issuable only as Securities in minimum denominations of \$2,000 and any integral multiple of \$1,000 in excess thereof, and shall be payable only in U.S. Dollars.

Section 3.03 Execution, Authentication, Delivery and Dating.

(a) The Securities shall be executed in the name and on behalf of the Company by the manual, facsimile or other electronic signature of any Officer. If the Person whose signature is on a Security no longer holds that office at the time the Security is authenticated and delivered, the Security shall nevertheless be valid.

(b) At any time and from time to time after the execution and delivery of this Indenture, the Company may deliver Securities of any series executed by the Company to the Trustee for authentication, together with a Company Order for the authentication and delivery of such Securities and, if required pursuant to Section 3.01, a supplemental indenture or Company Order setting forth the terms of the Securities of a series. The Trustee shall thereupon authenticate and deliver such Securities without any further action by the Company. The Company Order shall specify the amount of Securities to be authenticated and the date on which the original issue of Securities is to be authenticated.

(c) In authenticating the first Securities of any series and accepting the additional responsibilities under this Indenture in relation to such Securities the Trustee shall receive, and (subject to Section 11.02) shall be fully protected in relying upon an Officer's Certificate and an Opinion of Counsel, each prepared in accordance with Section 16.01 stating that the conditions precedent, if any, provided for in the Indenture have been complied with and in the case of the Opinion of Counsel, that such Securities, when authenticated and delivered by the Trustee and issued by the Company in the manner and subject to any conditions specified in such Opinion of Counsel, will constitute valid and legally binding obligations of the Company, enforceable in accordance with their terms, subject to bankruptcy, insolvency, reorganization and other laws of general applicability relating to or affecting the enforcement of creditors' rights and to general equity principles.

(d) The Trustee shall have the right to decline to authenticate and deliver the Securities under this Section 3.03 if the issue of the Securities pursuant to this Indenture will affect the Trustee's own rights, duties or immunities under the Securities and this Indenture or otherwise in a manner which is not reasonably acceptable to the Trustee.

(e) Each Security shall be dated the date of its authentication, except as otherwise provided pursuant to Section 3.01 with respect to the Securities of such series.

(f) Notwithstanding the provisions of Section 3.01 and of this Section 3.03, if all of the Securities of any series are not to be originally issued at the same time, then the documents required to be delivered pursuant to this Section 3.03 must be delivered only once prior to the authentication and delivery of the first Security of such series;

(g) If the Company shall establish pursuant to Section 3.01 that the Securities of a series are to be issued in whole or in part in the form of one or more Global Securities, then the Company shall execute and the Trustee shall authenticate and deliver one or more Global Securities that (i) shall represent an aggregate amount equal to the aggregate principal amount of the Outstanding Securities of such series to be represented by such Global Securities, (ii) shall be registered, in the name of the Depositary for such Global Security or Global Securities or the nominee of such Depositary, (iii) shall be delivered by the Trustee to such Depositary or pursuant to such Depositary's instruction and (iv) shall bear a legend substantially to the following effect:

“THIS SECURITY IS A GLOBAL SECURITY WITHIN THE MEANING OF THE INDENTURE HEREINAFTER REFERRED TO AND IS REGISTERED IN THE NAME OF THE DEPOSITARY OR A NOMINEE OF THE DEPOSITARY, WHICH SHALL BE TREATED BY THE COMPANY, THE TRUSTEE AND ANY AGENT THEREOF AS OWNER AND HOLDER OF THIS SECURITY FOR ALL PURPOSES.

UNLESS THIS CERTIFICATE IS PRESENTED BY AN AUTHORIZED REPRESENTATIVE OF THE DEPOSITARY 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 DEPOSITARY OR IN SUCH OTHER NAME AS IS REQUESTED BY AN AUTHORIZED REPRESENTATIVE OF THE DEPOSITARY (AND ANY PAYMENT HEREON IS MADE TO THE NOMINEE OF THE DEPOSITARY OR TO SUCH OTHER ENTITY AS IS REQUESTED BY AN AUTHORIZED REPRESENTATIVE OF THE DEPOSITARY), ANY TRANSFER, PLEDGE OR OTHER USE HEREOF FOR VALUE OR OTHERWISE BY OR TO ANY PERSON IS WRONGFUL SINCE THE REGISTERED OWNER HEREOF, THE NOMINEE OF THE DEPOSITARY, HAS AN INTEREST HEREIN.

TRANSFERS OF THIS GLOBAL SECURITY SHALL BE LIMITED TO TRANSFERS IN WHOLE, BUT NOT IN PART, BY THE DEPOSITARY TO A NOMINEE OF THE DEPOSITARY, OR BY A NOMINEE OF THE DEPOSITARY TO THE DEPOSITARY OR ANOTHER NOMINEE OF THE DEPOSITARY, OR BY THE DEPOSITARY OR ANY SUCH NOMINEE TO A SUCCESSOR DEPOSITARY OR A NOMINEE OF SUCH SUCCESSOR DEPOSITARY.”

The aggregate principal amount of each Global Security may from time to time be increased or decreased by adjustments made on the records of the Security Custodian, as provided in this Indenture.

(h) Each Depositary designated pursuant to Section 3.01 for a Global Security in registered form must, at the time of its designation and at all times while it serves as such Depositary, be a clearing agency registered under the Exchange Act and any other applicable statute or regulation.

(i) Members of, or participants in, the Depositary (“Members”) shall have no rights under this Indenture with respect to any Global Security held on their behalf by the Depositary or by the Security Custodian under such Global Security, and the Depositary shall be treated by the Company, the Trustee, the Paying Agent and the Registrar and any of their agents as the absolute owner of such Global Security for all purposes whatsoever. Notwithstanding the foregoing, nothing herein shall prevent the Company, the Trustee, the Paying Agent or the Registrar or any of their agents from giving effect to any written certification, proxy or other authorization furnished by the Depositary or impair, as between the Depositary and its Members, the operation of customary practices of the Depositary governing the exercise of the rights of an owner of a beneficial interest in any Global Security. The Holder of a Global Security may grant proxies and otherwise authorize any Person, including Members and Persons that may hold interests through Members, to take any action that a Holder is entitled to take under this Indenture or the Securities.

(j) No Security shall be entitled to any benefit under this Indenture or be valid or obligatory for any purpose unless there appears on such Security a certificate of authentication substantially in one of the forms provided for herein duly executed by the Trustee or by an Authenticating Agent by manual signature of an authorized signatory of the Trustee or Authenticating Agent, and such certificate upon any Security shall be conclusive evidence, and the only evidence, that such Security has been duly authenticated and delivered hereunder and is entitled to the benefits of this Indenture.

(a) Pending the preparation of definitive Securities of any series, the Company may execute, and upon Company Order the Trustee shall authenticate and deliver, temporary Securities that are printed, lithographed, typewritten, mimeographed or otherwise reproduced, in any authorized denominations, substantially of the tenor of the definitive Securities in lieu of which they are issued, in registered form and with such appropriate insertions, omissions, substitutions and other variations as the officers executing such Securities may determine, as conclusively evidenced by their execution of such Securities. Any such temporary Security may be in the form of one or more Global Securities, representing all or a portion of the Outstanding Securities of such series. Every such temporary Security shall be executed by the Company and shall be authenticated and delivered by the Trustee upon the same conditions and in substantially the same manner, and with the same effect, as the definitive Security or Securities in lieu of which it is issued.

(b) If temporary Securities of any series are issued, the Company will cause definitive Securities of such series to be prepared without unreasonable delay. After the preparation of definitive Securities of such series, the temporary Securities of such series shall be exchangeable for definitive Securities of such series upon surrender of such temporary Securities at the office or agency of the Company in a Place of Payment for such series, without charge to the Holder. Upon surrender for cancellation of any one or more temporary Securities of any series, the Company shall execute and the Trustee shall authenticate and deliver in exchange therefor a like principal amount of definitive Securities of the same series of authorized denominations and of like tenor. Until so exchanged, the temporary Securities of any series shall in all respects be entitled to the same benefits under this Indenture as definitive Securities of such series.

(c) Upon any exchange of a portion of a temporary Global Security for a definitive Global Security or for the Individual Securities represented thereby pursuant to this Section 3.04 or Section 3.06, the temporary Global Security shall be endorsed by the Trustee to reflect the reduction of the principal amount evidenced thereby, whereupon the principal amount of such temporary Global Security shall be reduced for all purposes by the amount so exchanged and endorsed.

Section 3.05 Registrar.

(a) The Company will keep, at an office or agency to be maintained by it in a Place of Payment where Securities may be presented for registration or presented and surrendered for registration of transfer or of exchange, and where Securities of any series that are convertible or exchangeable may be surrendered for conversion or exchange, as applicable (the "Registrar"), a security register for the registration and the registration of transfer or of exchange of the Securities (the registers maintained in such office and in any other office or agency of the Company in a Place of Payment being herein sometimes collectively referred to as the "Register"), as in this Indenture provided, which Register shall at all reasonable times be open for inspection by the Trustee. Such Register shall be in written form or in any other form capable of being converted into written form within a reasonable time. The Company may have one or more co-Registrars; the term "Registrar" includes any co-registrar.

(b) The Company shall enter into an appropriate agency agreement with any Registrar or co-Registrar not a party to this Indenture. The agreement shall implement the provisions of this Indenture that relate to such agent. The Company shall notify the Trustee of the name and address of each such agent. If the Company fails to maintain a Registrar for any series, the Trustee shall act as such and shall be entitled to appropriate compensation therefor pursuant to Section 11.01. The Company or any Affiliate thereof may act as Registrar, co-Registrar or transfer agent.

(c) The Company hereby appoints the Trustee at its Corporate Trust Office as Registrar in connection with the Securities and this Indenture, until such time as another Person is appointed as such.

Section 3.06 Transfer and Exchange.

(a) Transfer.

- (i) Upon surrender for registration of transfer of any Security of any series at the Registrar the Company shall execute, and the Trustee or any Authenticating Agent shall authenticate and deliver, in the name of the designated transferee, one or more new Securities of the same series for like aggregate principal amount of any authorized denomination or denominations. The transfer of any Security shall not be valid as against the Company or the Trustee unless registered at the Registrar at the request of the Holder, or at the request of his, her or its attorney duly authorized in writing.
- (ii) Notwithstanding any other provision of this Section, unless and until it is exchanged in whole or in part for the Individual Securities represented thereby, a Global Security representing all or a portion of the Securities of a series may not be transferred except as a whole by the Depositary for such series to a nominee of such Depositary or by a nominee of such Depositary to such Depositary or another nominee of such Depositary or by such Depositary or any such nominee to a successor Depositary for such series or a nominee of such successor Depositary.

(b) Exchange.

- (i) At the option of the Holder, Securities of any series (other than a Global Security, except as set forth below) may be exchanged for other Securities of the same series for like aggregate principal amount of any authorized denomination or denominations, upon surrender of the Securities to be exchanged at the Registrar.

- (ii) Whenever any Securities are so surrendered for exchange, the Company shall execute, and the Trustee or Authenticating Agent shall authenticate and deliver, the Securities that the Holder making the exchange is entitled to receive.

(c) Exchange of Global Securities for Individual Securities. Except as provided below, owners of beneficial interests in Global Securities will not be entitled to receive Individual Securities.

- (i) Individual Securities shall be issued to all owners of beneficial interests in a Global Security in exchange for such interests if: (A) at any time the Depository for the Securities of a series notifies the Company that it is unwilling or unable to continue as Depository for the Securities of such series or if at any time the Depository for the Securities of such series shall no longer be eligible under Section 3.03(h) and, in each case, a successor Depository is not appointed by the Company within 90 days of such notice, or (B) the Company executes and delivers to the Trustee and the Registrar a Company Order stating that such Global Security shall be so exchangeable.

In connection with the exchange of an entire Global Security for Individual Securities pursuant to this subsection (c), such Global Security shall be deemed to be surrendered to the Trustee for cancellation, and the Company shall execute, and the Trustee, upon receipt of a Company Order for the authentication and delivery of Individual Securities of such series, will authenticate and deliver to each beneficial owner identified by the Depository in exchange for its beneficial interest in such Global Security, an equal aggregate principal amount of Individual Securities of authorized denominations.

- (ii) The owner of a beneficial interest in a Global Security will be entitled to receive an Individual Security in exchange for such interest if an Event of Default has occurred and is continuing. Upon receipt by the Security Custodian and Registrar of instructions from the Holder of a Global Security directing the Security Custodian and Registrar to (x) issue one or more Individual Securities in the amounts specified to the owner of a beneficial interest in such Global Security and (y) debit or cause to be debited an equivalent amount of beneficial interest in such Global Security, subject to the rules and regulations of the Depository:
 - (A) the Security Custodian and Registrar shall notify the Company and the Trustee of such instructions, identifying the owner and amount of such beneficial interest in such Global Security;
 - (B) the Company shall promptly execute and the Trustee, upon receipt of a Company Order for the authentication and delivery of Individual Securities of such series, shall authenticate and deliver to such beneficial owner Individual Securities in an equivalent amount to such beneficial interest in such Global Security; and

- (C) the Security Custodian and Registrar shall decrease such Global Security by such amount in accordance with the foregoing. In the event that the Individual Securities are not issued to each such beneficial owner promptly after the Registrar has received a request from the Holder of a Global Security to issue such Individual Securities, the Company expressly acknowledges, with respect to the right of any Holder to pursue a remedy pursuant to Section 7.07 hereof, the right of any beneficial Holder of Securities to pursue such remedy with respect to the portion of the Global Security that represents such beneficial Holder's Securities as if such Individual Securities had been issued.
- (iii) If specified by the Company pursuant to Section 3.01 with respect to a series of Securities, the Depositary for such series of Securities may surrender a Global Security for such series of Securities in exchange in whole or in part for Individual Securities of such series on such terms as are acceptable to the Company and such Depositary. Thereupon, the Company shall execute, and the Trustee shall authenticate and deliver, without service charge,
 - (A) to each Person specified by such Depositary a new Individual Security or new Individual Securities of the same series, of any authorized denomination as requested by such Person in aggregate principal amount equal to and in exchange for such Person's beneficial interest in the Global Security; and
 - (B) to such Depositary a new Global Security in a denomination equal to the difference, if any, between the principal amount of the surrendered Global Security and the aggregate principal amount of Individual Securities delivered to Holders thereof.
- (iv) In any exchange provided for in clauses (i) through (iii), the Company will execute and the Trustee will authenticate and deliver Individual Securities in registered form in authorized denominations.
- (v) Upon the exchange in full of a Global Security for Individual Securities, such Global Security shall be canceled by the Trustee. Individual Securities issued in exchange for a Global Security pursuant to this Section shall be registered in such names and in such authorized denominations as the Depositary for such Global Security, pursuant to instructions from its direct or indirect participants or otherwise, shall instruct the Trustee. The Trustee shall deliver such Securities to the Persons in whose names such Securities are so registered.

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

(e) Every Security presented or surrendered for registration of transfer, or for exchange or payment shall (if so required by the Company, the Trustee or the Registrar) be duly endorsed, or be accompanied by a written instrument or instruments of transfer in form satisfactory to the Company, the Trustee and the Registrar, duly executed by the Holder thereof or by his, her or its attorney duly authorized in writing.

(f) No service charge will be made for any registration of transfer or exchange of Securities. The Company or the Trustee may require payment of a sum sufficient to cover any tax, assessment or other governmental charge that may be imposed in connection with any registration of transfer or exchange of Securities, other than those expressly provided in this Indenture to be made at the Company's own expense or without expense or charge to the Holders.

(g) The Company shall not be required to (i) register, transfer or exchange Securities of any series during a period beginning at the opening of business 15 days before the day of the transmission of a notice of redemption of Securities of such series selected for redemption under Section 4.02 and ending at the close of business on the day of such transmission, or (ii) register, transfer or exchange any Security so selected for redemption in whole or in part, except the unredeemed portion of any Security being redeemed in part.

(h) In case a successor Company ("Successor Company") has executed an indenture supplemental hereto with the Trustee pursuant to Section 6.04, any of the Securities previously authenticated or delivered may, from time to time, at the request of the Successor Company, be exchanged for other Securities executed in the name of the Successor Company with such changes in phraseology and form as may be appropriate, but otherwise identical to the Securities surrendered for such exchange and of like principal amount; and the Trustee, upon Company Order of the Successor Company, shall authenticate and deliver Securities as specified in such order for the purpose of such exchange. If Securities shall at any time be authenticated and delivered in any new name of a Successor Company pursuant to this Section 3.06 in exchange or substitution for or upon registration of transfer of any Securities, such Successor Company, at the option of the Holders but without expense to them, shall provide for the exchange of all Securities at the time Outstanding for Securities authenticated and delivered in such new name.

(i) The Trustee shall have no obligation or duty to monitor, determine or inquire as to compliance with any restrictions on transfer imposed under this Indenture or under applicable law with respect to any transfer of any interest in any Security other than to require delivery of such certificates and other documentation or evidence as are expressly required by, and to do so if and when expressly required by the terms of, this Indenture, and to examine the same to determine substantial compliance as to form with the express requirements hereof.

(j) Neither the Trustee nor any agent of the Trustee shall have any responsibility for any actions taken or not taken by the Depository.

(k) Prior to the due presentation for registration of transfer or exchange of any Security, the Company, the Trustee, the Paying Agent, the Registrar or any of their agents may deem and treat the Person in whose name a Security is registered as the absolute owner of such Security (whether or not such Security shall be overdue and notwithstanding any notation of ownership or other writing thereon) for all purposes whatsoever, and none of the Company, the Trustee, the Paying Agent, the Registrar or any of their agents shall be affected by any notice to the contrary.

(l) The Trustee shall have no responsibility or obligation to any beneficial owner of a Global Security, a member of, or a participant in, the Depositary or other Person with respect to the accuracy of the records of the Depositary or its nominee or of any participant or member thereof, with respect to any ownership interest in the Securities or with respect to the delivery to any participant, member, beneficial owner or other Person (other than the Depositary) of any notice (including any notice of redemption or purchase) or the payment of any amount or delivery of any Securities (or other security or property) under or with respect to such Securities. All notices and communications to be given to the Holders and all payments to be made to Holders in respect of the Securities shall be given or made only to or upon the order of the registered Holders (which shall be the Depositary or its nominee in the case of a Global Security). The rights of beneficial owners in any Global Security shall be exercised only through the Depositary subject to the applicable rules and procedures of the Depositary. The Trustee may rely and shall be fully protected in relying upon information furnished by the Depositary with respect to its members, participants and any beneficial owners.

Section 3.07 Mutilated, Destroyed, Lost and Stolen Securities.

(a) If (i) any mutilated Security is surrendered to the Trustee at its Corporate Trust Office or (ii) the Company and the Trustee receive evidence to their satisfaction of the destruction, loss or theft of any Security, and there is delivered to the Company and the Trustee security or indemnity satisfactory to them to save each of them and any Paying Agent harmless, and neither the Company nor the Trustee receives notice that such Security has been acquired by a protected purchaser, then the Company shall execute and upon Company Order the Trustee shall authenticate and deliver, in exchange for or in lieu of any such mutilated, destroyed, lost or stolen Security, a new Security of the same series and of like tenor, form, terms and principal amount, bearing a number not contemporaneously outstanding, such that neither gain nor loss in interest shall result from such exchange or substitution.

(b) In case any such mutilated, destroyed, lost or stolen Security has become or is about to become due and payable, the Company in its discretion may, instead of issuing a new Security, pay the amount due on such Security in accordance with its terms.

(c) Upon the issuance of any new Security under this Section, the Company may require the payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in respect thereto and any other expenses (including the fees and expenses of the Trustee) connected therewith.

(d) Every new Security of any series issued pursuant to this Section shall constitute an original additional contractual obligation of the Company, whether or not the destroyed, lost or stolen Security shall be at any time enforceable by anyone, and shall be entitled to all the benefits of this Indenture equally and proportionately with any and all other Securities of that series duly issued hereunder.

(e) The provisions of this Section are exclusive and shall preclude (to the extent lawful) all other rights and remedies with respect to the replacement or payment of mutilated, destroyed, lost or stolen Securities.

Section 3.08 Payment of Interest; Interest Rights Preserved.

(a) Interest on any Security that is payable and is punctually paid or duly provided for on any Interest Payment Date shall be paid to the Person in whose name such Security (or one or more Predecessor Securities) is registered at the close of business on the Record Date for such interest notwithstanding the cancellation of such Security upon any transfer or exchange subsequent to the Record Date. Payment of interest on Securities shall be made at the Corporate Trust Office (except as otherwise specified pursuant to Section 3.01) or, at the option of the Company, by check mailed to the address of the Person entitled thereto as such address shall appear in the Register or, in accordance with arrangements satisfactory to the Trustee, by wire transfer to an account designated by the Holder.

(b) Any interest on any Security that 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 Holder on the relevant Record Date by virtue of his, her or its having been such a Holder, and such Defaulted Interest may be paid by the Company, at its election in each case, as provided in clause (i) or (ii) below:

- (i) The Company may elect to make payment of any Defaulted Interest to the Persons in whose names such Securities (or their respective Predecessor Securities) are registered at the close of business on a special record date for the payment of such Defaulted Interest (a "Special Record Date"), 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 such 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 calendar days and not less than 10 calendar days prior to the date of the proposed payment and not less than 10 calendar 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 therefor to be mailed, first-class postage prepaid, to the Holders of such Securities at their addresses as they appear in the Register, not less than 10 calendar days prior to such Special Record Date. Notice of the proposed payment of such Defaulted Interest and the Special Record Date therefor having been mailed as aforesaid, such Defaulted Interest shall be paid to the Persons in whose names such Securities (or their respective Predecessor Securities) are registered at the close of business on such Special Record Date and shall no longer be payable pursuant to the following clause (ii).

- (ii) The Company may make payment of any Defaulted Interest on Securities in any other lawful manner not inconsistent with the requirements of any securities exchange on which such Securities 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 manner of payment shall be deemed practicable by the Trustee.

(c) Subject to the provisions set forth herein relating to Record Dates, each Security delivered pursuant to any provision of this Indenture in exchange or substitution for, or upon registration of transfer of, any other Security shall carry all the rights to interest accrued and unpaid, and to accrue, which were carried by such other Security.

Section 3.09 Cancellation. Unless otherwise specified pursuant to Section 3.01 for Securities of any series, all Securities surrendered for payment, redemption, registration of transfer or exchange or credit against any sinking fund or otherwise shall, if surrendered to any Person other than the Trustee, be delivered to the Trustee for cancellation and shall be promptly canceled by it and, if surrendered to the Trustee, shall be promptly canceled by it. The Company may at any time deliver to the Trustee for cancellation any Securities previously authenticated and delivered hereunder that the Company may have acquired in any manner whatsoever, and all Securities so delivered shall be promptly canceled by the Trustee. No Securities shall be authenticated in lieu of or in exchange for any Securities canceled as provided in this Section, except as expressly permitted by this Indenture. The Trustee shall dispose of all canceled Securities held by it in accordance with its then customary procedures and deliver a certificate of such disposal to the Company upon its request therefor. The acquisition of any Securities by the Company shall not operate as a redemption or satisfaction of the Indebtedness represented thereby unless and until such Securities are surrendered to the Trustee for cancellation.

Section 3.10 Computation of Interest. Except as otherwise specified pursuant to Section 3.01 for Securities of any series, interest on the Securities of each series shall be computed on the basis of a 360-day year of twelve 30-day months.

Section 3.11 Currency of Payments in Respect of Securities.

(a) Except as otherwise specified pursuant to Section 3.01 for Securities of any series, payment of the principal of and premium, if any, and interest on Securities of such series will be made in U.S. Dollars.

(b) For purposes of any provision of the Indenture where the Holders of Outstanding Securities may perform an action that requires that a specified percentage of the Outstanding Securities of all series perform such action and for purposes of any decision or determination by the Trustee of amounts due and unpaid for the principal of and premium, if any, and interest on the Securities of all series in respect of which moneys are to be disbursed ratably, the principal of and premium, if any, and interest on the Outstanding Securities denominated in a Foreign Currency will be the amount in U.S. Dollars based upon exchange rates, determined as specified pursuant to Section 3.01 for Securities of such series, as of the date for determining whether the Holders entitled to perform such action have performed it or as of the date of such decision or determination by the Trustee, as the case may be.

(c) Any decision or determination to be made regarding exchange rates shall be made by an agent appointed by the Company; provided that such agent shall accept such appointment in writing and the terms of such appointment shall, in the opinion of the Company at the time of such appointment, require such agent to make such determination by a method consistent with the method provided pursuant to Section 3.01 for the making of such decision or determination. All decisions and determinations of such agent regarding exchange rates shall, in the absence of manifest error, be conclusive for all purposes and irrevocably binding upon the Company, the Trustee and all Holders of the Securities.

Section 3.12 Judgments. The Company may provide pursuant to Section 3.01 for Securities of any series that (a) the obligation, if any, of the Company to pay the principal of, premium, if any, and interest on the Securities of any series in a Foreign Currency or U.S. Dollars (the "Designated Currency") as may be specified pursuant to Section 3.01 is of the essence and agrees that, to the fullest extent possible under applicable law, judgments in respect of such Securities shall be given in the Designated Currency; (b) the obligation of the Company to make payments in the Designated Currency of the principal of and premium, if any, and interest on such Securities shall, notwithstanding any payment in any other Currency (whether pursuant to a judgment or otherwise), be discharged only to the extent of the amount in the Designated Currency that the Holder receiving such payment may, in accordance with normal banking procedures, purchase with the sum paid in such other Currency (after any premium and cost of exchange) on the business day in the country of issue of the Designated Currency or in the international banking community (in the case of a composite currency) immediately following the day on which such Holder receives such payment; (c) if the amount in the Designated Currency that may be so purchased for any reason falls short of the amount originally due, the Company shall pay such additional amounts as may be necessary to compensate for such shortfall; and (d) any obligation of the Company not discharged by such payment shall be due as a separate and independent obligation and, until discharged as provided herein, shall continue in full force and effect.

Section 3.13 CUSIP Numbers. The Company in issuing any Securities may use CUSIP, ISIN or other similar numbers, if then generally in use, and thereafter with respect to such series, the Trustee may use such numbers in any notice of redemption or exchange with respect to such series provided that any such notice may state that no representation is made as to the correctness of such numbers either as printed on the Securities or as contained in any notice of a redemption and that reliance may be placed only on the other identification numbers printed on the Securities, and any such redemption shall not be affected by any defect in or omission of such numbers. The Company will promptly notify the Trustee in writing of any change in the CUSIP, ISIN or other similar numbers.

REDEMPTION OF SECURITIES

Section 4.01 Applicability of Right of Redemption. Redemption of Securities (other than pursuant to a sinking fund, amortization or analogous provision) permitted by the terms of any series of Securities shall be made (except as otherwise specified pursuant to Section 3.01 for Securities of any series) in accordance with this Article; provided, however, that if any such terms of a series of Securities shall conflict with any provision of this Article, the terms of such series shall govern.

Section 4.02 Selection of Securities to be Redeemed.

(a) If the Company shall at any time elect to redeem all or any portion of the Securities of a series then Outstanding, it shall at least 15 days prior to the Redemption Date fixed by the Company (unless a shorter period shall be satisfactory to the Trustee) notify the Trustee of such Redemption Date and of the principal amount of Securities to be redeemed, and thereupon the Trustee shall select, by lot or in such other manner as the Trustee shall deem appropriate and, in the case of Global Securities, in accordance with the procedures of the Depository, and which may provide for the selection for redemption of a portion of the principal amount of any Security of such series; provided that the unredeemed portion of the principal amount of any Security shall be in an authorized denomination (which shall not be less than the minimum authorized denomination) for such Security. In any case where more than one Security of such series is registered in the same name, the Trustee may treat the aggregate principal amount so registered as if it were represented by one Security of such series. The Trustee shall, as soon as practicable, notify the Company in writing of the Securities and portions of Securities so selected.

(b) For all purposes of this Indenture, unless the context otherwise requires, all provisions relating to the redemption of Securities shall relate, in the case of any Security redeemed or to be redeemed only in part, to the portion of the principal amount of such Security that has been or is to be redeemed. If the Company shall so direct, Securities registered in the name of the Company, any Affiliate or any Subsidiary thereof shall not be included in the Securities selected for redemption.

Section 4.03 Notice of Redemption.

(a) Notice of redemption shall be given by the Company or, at the Company's request, by the Trustee in the name and at the expense of the Company, not less than 10 nor more than 30 days prior to the Redemption Date, to the Holders of Securities of any series to be redeemed in whole or in part pursuant to this Article, in the manner provided in Section 16.04. Any notice so given shall be conclusively presumed to have been duly given, whether or not the Holder receives such notice. Failure to give such notice, or any defect in such notice to the Holder of any Security of a series designated for redemption, in whole or in part, shall not affect the sufficiency of any notice of redemption with respect to the Holder of any other Security of such series.

(b) All notices of redemption shall identify the Securities to be redeemed (including CUSIP, ISIN or other similar numbers, if available along with the statement in Section 3.13) and shall state:

- (i) such election by the Company to redeem Securities of such series pursuant to provisions contained in this Indenture or the terms of the Securities of such series or a supplemental indenture establishing such series, if such be the case;
- (ii) the Redemption Date;
- (iii) the Redemption Price;
- (iv) if less than all Outstanding Securities of any series are to be redeemed, the identification (and, in the case of partial redemption, the principal amounts) of the Securities of such series to be redeemed;
- (v) that on the Redemption Date the Redemption Price will become due and payable upon each such Security to be redeemed, and that, if applicable, interest thereon shall cease to accrue on and after said date;
- (vi) the Place or Places of Payment where such Securities are to be surrendered for payment of the Redemption Price; and
- (vii) that the redemption is for a sinking fund, if such is the case.

(c) At the Company's request, the Trustee shall give the notice of redemption in the Company's name and at the Company's expense; provided, however, that the Company shall have delivered to the Trustee, at least five (5) calendar days before notice of redemption is required to be sent or caused to be sent to Holders pursuant to this Section (or such shorter period as is acceptable to the Trustee), an Officer's Certificate requesting that the Trustee give such notice and setting forth the information to be stated in the notice as provided in the preceding paragraph.

Section 4.04 Deposit of Redemption Price. On or prior to 11:00 a.m., New York City time, on the Redemption Date for any Securities, the Company shall deposit with the Trustee or with a Paying Agent (or, if the Company is acting as its own Paying Agent, segregate and hold in trust as provided in Section 6.03) an amount of money in the Currency in which such Securities are denominated (except as provided pursuant to Section 3.01) sufficient to pay the Redemption Price of such Securities or any portions thereof that are to be redeemed on that date.

Section 4.05 Securities Payable on Redemption Date. Notice of redemption having been given as aforesaid, any Securities so to be redeemed shall, on the Redemption Date, become due and payable at the Redemption Price and from and after such date (unless the Company shall Default in the payment of the Redemption Price) such Securities shall cease to bear interest. Upon surrender of any such Security for redemption in accordance with said notice, such Security shall be paid by the Company at the Redemption Price; provided, however, that (unless otherwise provided pursuant to Section 3.01) installments of interest that have a Stated Maturity on or prior to the Redemption Date for such Securities shall be payable according to the terms of such Securities and the provisions of Section 3.08.

If any Security called for redemption shall not be so paid upon surrender thereof for redemption, the principal thereof and premium, if any, thereon shall, until paid, bear interest from the Redemption Date at the rate borne by or prescribed in such Securities.

Section 4.06 Securities Redeemed in Part. Any Security that is to be redeemed only in part shall be surrendered at the Corporate Trust Office or such other office or agency of the Company as is specified in the notice of redemption with, if the Company, the Registrar or the Trustee so requires, due endorsement by, or a written instrument of transfer in form satisfactory to the Company, the Registrar and the Trustee duly executed by the Holder thereof or his, her or its attorney duly authorized in writing, and the Company shall execute, and the Trustee shall authenticate and deliver to the Holder of such Security without service charge, a new Security or Securities of the same series, of like tenor and form, of any authorized denomination as requested by such Holder in aggregate principal amount equal to and in exchange for the unredeemed portion of the principal of the Security so surrendered; except that if a Global Security is so surrendered, the Company shall execute, and the Trustee shall authenticate and deliver to the Depository for such Global Security, without service charge, a new Global Security in a denomination equal to and in exchange for the unredeemed portion of the principal of the Global Security so surrendered. In the case of a Security providing appropriate space for such notation, at the option of the Holder thereof, the Trustee, in lieu of delivering a new Security or Securities as aforesaid, may make a notation on such Security of the payment of the redeemed portion thereof.

ARTICLE V

SINKING FUNDS

Section 5.01 Applicability of Sinking Fund.

(a) Redemption of Securities permitted or required pursuant to a sinking fund for the retirement of Securities of a series by the terms of such series of Securities shall be made in accordance with such terms of such series of Securities and this Article, except as otherwise specified pursuant to Article IV for Securities of such series, provided, however, that if any such terms of a series of Securities shall conflict with any provision of this Article, the terms of such series shall govern.

(b) The minimum amount of any sinking fund payment provided for by the terms of Securities of any series is herein referred to as a "Mandatory Sinking Fund Payment," and any payment in excess of such minimum amount provided for by the terms of Securities of any series is herein referred to as an "Optional Sinking Fund Payment." If provided for by the terms of Securities of any series, the cash amount of any Mandatory Sinking Fund Payment may be subject to reduction as provided in Section 5.02.

Section 5.02 Mandatory Sinking Fund Obligation. The Company may, at its option, satisfy any Mandatory Sinking Fund Payment obligation, in whole or in part, with respect to a particular series of Securities by (a) delivering to the Trustee Securities of such series in transferable form theretofore purchased or otherwise acquired by the Company or redeemed at the election of the Company pursuant to Article IV or (b) receiving credit for Securities of such series (not previously so credited) acquired by the Company and theretofore delivered to the Trustee. The Trustee shall credit such Mandatory Sinking Fund Payment obligation with an amount equal to the Redemption Price specified in such Securities for redemption through operation of the sinking fund and the amount of such Mandatory Sinking Fund Payment shall be reduced accordingly. If the Company shall elect to so satisfy any Mandatory Sinking Fund Payment obligation, it shall deliver to the Trustee not less than 45 days prior to the relevant sinking fund payment date an Officer's Certificate, which shall designate the Securities (and portions thereof, if any) so delivered or credited and which shall be accompanied by such Securities (to the extent not theretofore delivered) in transferable form. In case of the failure of the Company, at or before the time so required, to give such notice and deliver such Securities the Mandatory Sinking Fund Payment obligation shall be paid entirely in moneys.

Section 5.03 Optional Redemption at Sinking Fund Redemption Price. In addition to the sinking fund requirements of Section 5.02, to the extent, if any, provided for by the terms of a particular series of Securities, the Company may, at its option, make an Optional Sinking Fund Payment with respect to such Securities. Unless otherwise provided by such terms, (a) to the extent that the right of the Company to make such Optional Sinking Fund Payment shall not be exercised in any year, it shall not be cumulative or carried forward to any subsequent year, and (b) such optional payment shall operate to reduce the amount of any Mandatory Sinking Fund Payment obligation as to Securities of the same series. If the Company intends to exercise its right to make such optional payment in any year it shall deliver to the Trustee not less than 45 days prior to the relevant sinking fund payment date an Officer's Certificate stating that the Company will exercise such optional right, and specifying the amount which the Company will pay on or before the next succeeding sinking fund payment date. Such Officer's Certificate shall also state that no Event of Default has occurred and is continuing.

Section 5.04 Application of Sinking Fund Payment.

(a) If the sinking fund payment or payments made in funds pursuant to either Section 5.02 or 5.03 with respect to a particular series of Securities plus any unused balance of any preceding sinking fund payments made in funds with respect to such series shall exceed \$50,000 (or a lesser sum if the Company shall so request, or such equivalent sum for Securities denominated other than in U.S. Dollars), it shall be applied by the Trustee on the sinking fund payment date next following the date of such payment, unless the date of such payment shall be a sinking fund payment date, in which case such payment shall be applied on such sinking fund payment date, to the redemption of Securities of such series at the redemption price specified pursuant to Section 4.03(b). The Trustee shall select, in the manner provided in Section 4.02, for redemption on such sinking fund payment date, a sufficient principal amount of Securities of such series to absorb said funds, as nearly as may be, and shall, at the expense and in the name of the Company, thereupon cause notice of redemption, prepared by the Company, of the Securities to be given in substantially the manner provided in Section 4.03(a) for the redemption of Securities in part at the option of the Company, except that the notice of redemption shall also state that the Securities are being redeemed for the sinking fund. Any sinking fund moneys not so applied by the Trustee to the redemption of Securities of such series shall be added to the next sinking fund payment received in funds by the Trustee and, together with such payment, shall be applied in accordance with the provisions of this Section 5.04. Any and all sinking fund moneys held by the Trustee on the last sinking fund payment date with respect to Securities of such series, and not held for the payment or redemption of particular Securities of such series, shall be applied by the Trustee to the payment of the principal of the Securities of such series at Maturity.

(b) On or prior to each sinking fund payment date, the Company shall pay to the Trustee a sum equal to all interest accrued to but not including the date fixed for redemption on Securities to be redeemed on such sinking fund payment date pursuant to this Section 5.04.

(c) The Trustee shall not redeem any Securities of a series with sinking fund moneys or mail any notice of redemption of Securities of such series by operation of the sinking fund during the continuance of a Default in payment of interest on any Securities of such series or of any Event of Default (other than an Event of Default occurring as a consequence of this paragraph) of which a Responsible Officer of the Trustee has actual knowledge, except that if the notice of redemption of any Securities of such series shall theretofore have been mailed in accordance with the provisions hereof, the Trustee shall redeem such Securities if funds sufficient for that purpose shall be deposited with the Trustee in accordance with the terms of this Article. Except as aforesaid, any moneys in the sinking fund at the time any such Default or Event of Default shall occur and any moneys thereafter paid into the sinking fund shall, during the continuance of such Default or Event of Default, be held as security for the payment of all the Securities of such series; provided, however, that in case such Default or Event of Default shall have been cured or waived as provided herein, such moneys shall thereafter be applied on the next sinking fund payment date on which such moneys are required to be applied pursuant to the provisions of this Section 5.04.

ARTICLE VI

PARTICULAR COVENANTS OF THE COMPANY

The Company hereby covenants and agrees as follows:

Section 6.01 Payments of Securities. The Company will duly and punctually pay the principal of and premium, if any, on each series of Securities, and the interest which shall have accrued thereon, at the dates and place and in the manner provided in the Securities and in this Indenture.

Section 6.02 Paying Agent.

(a) The Company will maintain in each Place of Payment for any series of Securities an office or agency where Securities may be presented or surrendered for payment, where Securities of such series may be surrendered for registration of transfer or exchange and where notices and demands to or upon the Company in respect of the Securities and this Indenture may be served (the "Paying Agent"). The Company will give prompt written notice to the Trustee of the location, and any change in the location, of such office or agency. If at any time the Company shall fail to maintain any such required office or agency or shall fail to furnish the Trustee with the address thereof, such presentations, surrenders, notices and demands may be made or served at the Corporate Trust Office of the Trustee, and the Company hereby appoints the Trustee as Paying Agent to receive all presentations, surrenders, notices and demands.

(b) The Company may also from time to time designate different or additional offices or agencies where the Securities of any series may be presented or surrendered for any or all such purposes (in or outside of such Place of Payment), and may from time to time rescind any such designations; provided, however, that no such designation or rescission shall in any manner relieve the Company of its obligations described in the preceding paragraph. The Company will give prompt written notice to the Trustee of any such additional designation or rescission of designation and of any change in the location of any such different or additional office or agency. The Company shall enter into an appropriate agency agreement with any Paying Agent not a party to this Indenture. The agreement shall implement the provisions of this Indenture that relate to such agent. The Company shall notify the Trustee of the name and address of each such agent. The Company or any Affiliate thereof may act as Paying Agent.

Section 6.03 To Hold Payment in Trust.

(a) If the Company or an Affiliate thereof shall at any time act as Paying Agent with respect to any series of Securities, then, on or before the date on which the principal of and premium, if any, or interest on any of the Securities of that series by their terms or as a result of the calling thereof for redemption shall become payable, the Company or such Affiliate will segregate and hold in trust for the benefit of the Holders of such Securities or the Trustee a sum sufficient to pay such principal and premium, if any, or interest which shall have so become payable until such sums shall be paid to such Holders or otherwise disposed of as herein provided, and will notify the Trustee of its action or failure to act in that regard. Upon any proceeding under any federal bankruptcy laws with respect to the Company or any Affiliate thereof, if the Company or such Affiliate is then acting as Paying Agent, the Trustee shall replace the Company or such Affiliate as Paying Agent.

(b) If the Company shall appoint, and at the time have, a Paying Agent for the payment of the principal of and premium, if any, or interest on any series of Securities, then prior to 11:00 a.m., New York City time, on the date on which the principal of and premium, if any, or interest on any of the Securities of that series shall become payable as aforesaid, whether by their terms or as a result of the calling thereof for redemption, the Company will deposit with such Paying Agent a sum sufficient to pay such principal and premium, if any, or interest, such sum to be held in trust for the benefit of the Holders of such Securities or the Trustee, and (unless such Paying Agent is the Trustee), the Company or any other obligor of such Securities will promptly notify the Trustee of its payment or failure to make such payment.

(c) If the Paying Agent shall be other than the Trustee, the Company will cause such Paying Agent 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 6.03, that such Paying Agent shall:

- (i) hold all moneys held by it for the payment of the principal of and premium, if any, or interest on the Securities of that series in trust for the benefit of the Holders of such Securities until such sums shall be paid to such Holders or otherwise disposed of as herein provided;

- (ii) give to the Trustee notice of any Default by the Company or any other obligor upon the Securities of that series in the making of any payment of the principal of and premium, if any, or interest on the Securities of that series; and
- (iii) at any time during the continuance of any such Default, upon the written request of the Trustee, pay to the Trustee all sums so held in trust by such Paying Agent.

(d) Anything in this Section 6.03 to the contrary notwithstanding, the Company may at any time, for the purpose of obtaining a release, satisfaction or discharge of this Indenture or for any other reason, pay or cause to be paid to the Trustee all sums held in trust by the Company or by any Paying Agent other than the Trustee as required by this Section 6.03, such sums to be held by the Trustee upon the same trusts as those upon which such sums were held by the Company or such Paying Agent.

(e) Any money deposited with the Trustee or any Paying Agent, or then held by the Company, in trust for the payment of the principal of and premium, if any, or interest on any Security of any series and remaining unclaimed for two years after such principal and premium, if any, or interest has become due and payable shall be paid to the Company upon Company Order along with any interest that has accumulated thereon as a result of such money being invested at the direction of the Company, or (if then held by the Company) shall be discharged from such trust, and the Holder of such Security shall thereafter, as an unsecured general creditor, look only to the Company for payment of such amounts without interest thereon, and all liability of the Trustee or such Paying Agent with respect to such trust money, and all liability of the Company as trustee thereof, shall thereupon cease; provided, however, that the Trustee or such Paying Agent before being required to make any such repayment, may at the expense of the Company cause to be published once, in a newspaper published in the English language, customarily published on each Business Day and of general circulation in The City of New York, notice that such money remains unclaimed and that, after a date specified therein, which shall not be less than 30 days from the date of such publication, any unclaimed balance of such money then remaining will be repaid to the Company.

Section 6.04 Merger, Consolidation and Sale of Assets. Except as otherwise provided as contemplated by Section 3.01 with respect to any series of Securities:

(a) The Company will not consolidate with any other entity or permit a merger of any other entity into the Company or permit the Company to be merged into any other entity, or sell, convey, transfer or lease all or substantially all its assets to another entity, unless (i) either the Company shall be the continuing entity, or the successor, transferee or lessee entity (if other than the Company) shall be organized and existing under the laws of the United States or any State thereof or the District of Columbia and expressly assume, by indenture supplemental hereto, executed and delivered by such entity prior to or simultaneously with such consolidation, merger, sale, conveyance, transfer or lease, the due and punctual payment of the principal of and interest and premium, if any, on all the Securities, according to their tenor, and the due and punctual performance and observance of all other obligations to the Holders and the Trustee under this Indenture or under the Securities to be performed or observed by the Company; and (ii) immediately after such consolidation, merger, sale, conveyance, transfer or lease the Company or the successor, transferee or lessee entity (if other than the Company) would not be in Default in the performance of any covenant or condition of this Indenture.

(b) Upon any consolidation with or merger into any other entity, or any sale, conveyance or transfer lease of all or substantially all of the assets of the Company in accordance with this Section 6.04, the successor entity formed by such consolidation or into or with which the Company is merged or to which the Company is sold or to which such conveyance, transfer or lease is made shall succeed to, and be substituted for, and may exercise every right and power of, the Company under this Indenture with the same effect as if such successor entity had been named as the Company herein, and thereafter, except in the case of a lease, the predecessor Company shall be relieved of all obligations and covenants under this Indenture and the Securities, and from time to time such entity may exercise each and every right and power of the Company under this Indenture, in the name of the Company, or in its own name; and any act or proceeding by any provision of this Indenture required or permitted to be done by the Board of Directors or any officer of the Company may be done with like force and effect by the like board or officer of any entity that shall at the time be the successor of the Company hereunder. In the event of any such sale or conveyance, but not any such lease, the Company (or any successor entity which shall theretofore have become such in the manner described in this Section 6.04) shall be discharged from all obligations and covenants under this Indenture and the Securities and may thereupon be dissolved and liquidated.

Section 6.05 Compliance Certificate. Except as otherwise provided as contemplated by Section 3.01 with respect to any series of Securities, the Company shall furnish to the Trustee annually, within 120 days after the end of each fiscal year, a brief certificate from an Officer as to his or her knowledge of the Company's compliance with all conditions and covenants under this Indenture (which compliance shall be determined without regard to any period of grace or requirement of notice provided under this Indenture) and, in the event of any Default, specifying each such Default and the nature and status thereof of which such person may have knowledge. Such certificates need not comply with Section 16.01 of this Indenture.

Section 6.06 Conditional Waiver by Holders of Securities. Anything in this Indenture to the contrary notwithstanding, the Company may fail or omit in any particular instance to comply with a covenant or condition set forth herein with respect to any series of Securities if the Company shall have obtained and filed with the Trustee, prior to the time of such failure or omission, evidence (as provided in Article VIII) of the consent of the Holders of a majority in aggregate principal amount of the Securities of such series at the time Outstanding (except as to a covenant or condition which under Section 14.02 cannot be modified or amended without the consent of the Holder of each Outstanding Security of such series affected, in which case the consent of the Holder of each Outstanding Security of such series affected shall be required), 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 such covenant or condition except to the extent so expressly waived, or impair any right consequent thereon and, until such waiver shall have 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.

Section 6.07 Statement by Officers as to Default. The Company shall deliver to the Trustee as soon as possible and in any event within 30 days after the Company becomes aware of the occurrence of any Event of Default or an event which, with the giving of 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.

ARTICLE VII

REMEDIES OF TRUSTEE AND SECURITYHOLDERS

Section 7.01 Events of Default. Except where otherwise indicated by the context or where the term is otherwise defined for a specific purpose, the term "Event of Default" as used in this Indenture with respect to Securities of any series shall mean any of the following described events unless it is either inapplicable to a particular series or it is specifically deleted or modified in the manner contemplated in Section 3.01:

(a) the failure of the Company to pay any installment of interest on any Security of such series when and as the same shall become payable, which failure shall have continued unremedied for a period of 30 days;

(b) the failure of the Company to pay the principal of (and premium, if any, on) any Security of such series, when and as the same shall become payable, whether at Maturity as therein expressed, by call for redemption (otherwise than pursuant to a sinking fund), upon acceleration under this Indenture or otherwise;

(c) the failure of the Company to pay a sinking fund installment, if any, when and as the same shall become payable by the terms of a Security of such series, which failure shall have continued unremedied for a period of 30 days;

(d) the failure of the Company, subject to the provisions of Section 6.06, to perform any covenants or satisfy any conditions contained in this Indenture (or the terms of the Securities of such series or a supplemental indenture establishing such series) (other than a covenant or condition which has been expressly included in this Indenture solely for the benefit of a series of Securities other than that series and other than a covenant or condition a default in the performance of which is elsewhere in this Section 7.01 specifically addressed), which failure shall not have been remedied, or without provision deemed to be adequate for the remedying thereof having been made, for a period of 90 days after written notice shall have been given to the Company by the Trustee or shall have been given to the Company and the Trustee by Holders of 25% or more in aggregate principal amount of the Securities of such series then Outstanding, specifying such failure, requiring the Company to remedy the same and stating that such notice is a "Notice of Default" hereunder;

(e) the entry by a court having jurisdiction in the premises of a decree or order for relief in respect of the Company in an involuntary case under the federal bankruptcy laws, as now or hereafter constituted, or any other applicable federal or state bankruptcy, insolvency or other similar law now or hereafter in effect, or appointing a receiver, liquidator, assignee, custodian, trustee or sequestrator (or similar official) of the Company or of substantially all the property of the Company or ordering the winding-up or liquidation of its affairs and such decree or order shall remain unstayed and in effect for a period of 90 consecutive days;

(f) the commencement by the Company of a voluntary case under the federal bankruptcy laws, as now or hereafter constituted, or any other applicable federal or state bankruptcy, insolvency or other similar law now or hereafter in effect, or the consent by the Company to the entry of an order for relief in an involuntary case under any such law, or the consent by the Company to the appointment of or taking possession by a receiver, liquidator, assignee, trustee, custodian or sequestrator (or similar official) of the Company or of substantially all the property of the Company or the making by it of an assignment for the benefit of creditors or the admission by it in writing of its inability to pay its debts generally as they become due, or the taking of corporate action by the Company in furtherance of any action; or

(g) the occurrence of any other Event of Default with respect to Securities of such series as provided in Section 3.01;

provided, however, that no event described in clause (d) or (other than with respect to a payment default) (g) above shall constitute an Event of Default hereunder until the Trustee or the Holders of 25% or more in aggregate principal amount of the Securities of such series then Outstanding, notify the Company (and the Trustee in case of notice by the Holders) of the Default, specifying the Default, requiring the Company to remedy the same and stating that such notice is a "Notice of Default" hereunder.

Notwithstanding the foregoing provisions of this Section 7.01, if the principal or any premium or interest on any Security is payable in a Currency other than the Currency of the United States and such Currency is not available to the Company for making payment thereof due to the imposition of exchange controls or other circumstances beyond the control of the Company, the Company will be entitled to satisfy its obligations to Holders of the Securities by making such payment in the Currency of the United States in an amount equal to the Currency of the United States equivalent of the amount payable in such other Currency, as determined by the Company's agent in accordance with Section 3.11(c) hereof by reference to the noon buying rate in The City of New York for cable transfers for such Currency ("Exchange Rate"), as such Exchange Rate is reported or otherwise made available by the Federal Reserve Bank of New York on the date of such payment, or, if such rate is not then available, on the basis of the most recently available Exchange Rate. Notwithstanding the foregoing provisions of this Section 7.01, any payment made under such circumstances in the Currency of the United States where the required payment is in a Currency other than the Currency of the United States will not constitute an Event of Default under this Indenture.

(a) Except as otherwise provided as contemplated by Section 3.01 with respect to any series of Securities, if any one or more of the above-described Events of Default (other than an Event of Default specified in Section 7.01(e) or 7.01(f)) shall happen with respect to Securities of any series at the time Outstanding, then, and in each and every such case, during the continuance of any such Event of Default, the Trustee or the Holders of 25% or more in principal amount of the Securities of such series then Outstanding may declare the principal (or, if the Securities of that series are Original Issue Discount Securities, such portion of the principal amount as may be specified in the terms of that series) of and all accrued and unpaid interest on all the Securities of such series then Outstanding to be due and payable immediately by a notice in writing to the Company (and to the Trustee if given by Holders), and upon any such acceleration such principal amount (or specified amount) and accrued and unpaid interest thereon shall become immediately due and payable. If an Event of Default specified in Section 7.01(e) or 7.01(f) occurs and is continuing, then in every such case, the principal amount (or, if the Securities of that series are Original Issue Discount Securities, such portion of the principal amount as may be specified by the terms of that series) of and accrued and unpaid interest on all of the Securities of that series then Outstanding shall automatically, and without any acceleration or any other action on the part of the Trustee or any Holder, become due and payable immediately. Upon payment of such amounts in the Currency in which such Securities are denominated (subject to the last paragraph of Section 7.01 and except as otherwise provided pursuant to Section 3.01), all obligations of the Company in respect of the payment of principal of and interest on the Securities of such series shall terminate.

(b) The provisions of Section 7.02(a), however, are subject to the condition that, at any time after the principal and accrued and unpaid interest on all the Securities of such series, to which any one or more of the above-described Events of Default is applicable, shall have been so declared to be or shall have automatically become due and payable, and before a judgment or decree for payment of the money due has been obtained by the Trustee as hereinafter provided in this Article, Holders of a majority in principal amount of the Securities of that series then Outstanding, by written notice to the Company and the Trustee, may rescind and annul such acceleration if:

- (i) the Company has paid or deposited with the Trustee or Paying Agent a sum in the Currency in which such Securities are denominated (subject to the last paragraph of Section 7.01 and except as otherwise provided pursuant to Section 3.01) sufficient to pay:
 - (A) all amounts owing the Trustee and any predecessor trustee hereunder under Section 11.01(a) (provided, however, that all sums payable under this clause (A) shall be paid in U.S. Dollars);
 - (B) all accrued and unpaid interest, if any, upon all the Securities of such series with interest thereon to the extent that interest thereon shall be legally enforceable, on any overdue installment of interest at the rate borne by or prescribed in such Securities; and

- (C) the principal of and accrued and unpaid premium, if any, on any Securities of such series that have become due otherwise than by such acceleration with interest thereon to the extent that interest thereon shall be legally enforceable, on any overdue installment of interest at the rate borne by or prescribed in such Securities; and
- (ii) every other Default and Event of Default with respect to Securities of that series, other than the non-payment of the principal of Securities of that series which have become due solely by such acceleration, have been cured or waived as provided in Section 7.06.
- (c) No such rescission shall affect any subsequent default or impair any right consequent thereon.

(d) For all purposes under this Indenture, if a portion of the principal of any Original Issue Discount Securities shall have been accelerated and declared due and payable pursuant to the provisions hereof, then, from and after such acceleration, unless such acceleration has been rescinded and annulled, the principal amount of such Original Issue Discount Securities shall be deemed, for all purposes hereunder, to be such portion of the principal thereof as shall be due and payable as a result of such acceleration, and payment of such portion of the principal thereof as shall be due and payable as a result of such acceleration, together with interest, if any, thereon and all other amounts owing thereunder, shall constitute payment in full of such Original Issue Discount Securities.

Section 7.03 Other Remedies. If the Company shall fail for a period of 30 days to pay any installment of interest on the Securities of any series or shall fail to pay any principal of and premium, if any, on any of the Securities of such series when and as the same shall become due and payable, whether at Maturity, or by call for redemption (other than pursuant to the sinking fund), by acceleration as authorized by this Indenture, or otherwise, or shall fail for a period of 30 days to make any required sinking fund payment as to a series of Securities, then, upon demand of the Trustee, the Company will pay to the Paying Agent for the benefit of the Holders of Securities of such series then Outstanding the whole amount which then shall have become due and payable on all the Securities of such series for principal, premium, if any, and accrued and unpaid interest, with interest (so far as the same may be legally enforceable) on the overdue principal and on the overdue premium, if any, and accrued and unpaid interest at the rate borne by or prescribed in such Securities, and all amounts owing the Trustee and any predecessor trustee hereunder under Section 11.01(a).

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 action or proceeding 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 upon the Securities of such series, and collect the moneys adjudged or decreed to be payable out of the property of the Company or any other obligor upon the Securities of such series, wherever situated, in the manner provided by law. Every recovery of judgment in any such action or other proceeding, subject to the payment to the Trustee of all amounts owing the Trustee and any predecessor trustee hereunder under Section 11.01(a), shall be for the ratable benefit of the Holders of such series of Securities which shall be the subject of such action or proceeding. All rights of action upon or under any of the Securities or this Indenture may be enforced by the Trustee without the possession of any of the Securities and without the production of any thereof at any trial or any proceeding relative thereto.

Section 7.04 Trustee as Attorney-in-Fact. The Trustee is hereby appointed, and each and every Holder of the Securities, by receiving and holding the same, shall be conclusively deemed to have appointed the Trustee, the true and lawful attorney-in-fact of such Holder, with authority to make or file (whether or not the Company shall be in Default in respect of the payment of the principal of, premium, if any, or interest on, any of the Securities), in its own name and as trustee of an express trust or otherwise as it shall deem advisable, in any receivership, insolvency, liquidation, bankruptcy, reorganization or other judicial proceeding relative to the Company or any other obligor upon the Securities or to their respective creditors or property, any and all claims, proofs of claim, proofs of debt, petitions, consents, other papers and documents and amendments of any thereof, as may be necessary or advisable in order to have the claims of the Trustee and any predecessor trustee hereunder and of the Holders of the Securities allowed in any such proceeding and to collect and receive any moneys or other property payable or deliverable on any such claim, and to execute and deliver any and all other papers and documents and to do and perform any and all other acts and things, as it may deem necessary or advisable in order to enforce in any such proceeding any of the claims of the Trustee and any predecessor trustee hereunder and of any of such Holders in respect of any of the Securities; and any receiver, assignee, trustee, custodian or debtor in any such proceeding is hereby authorized, and each and every taker or Holder of the Securities, by receiving and holding the same, shall be conclusively deemed to have authorized any such receiver, assignee, trustee, custodian or debtor, to make any such payment or delivery only to or on the order of the Trustee, and to pay to the Trustee any amount due it and any predecessor trustee hereunder under Section 11.01(a); provided, however, that nothing herein contained shall be deemed to authorize or empower the Trustee to consent to or accept or adopt, on behalf of any Holder of Securities, any plan of reorganization or readjustment affecting the Securities or the rights of any Holder thereof, or to authorize or empower the Trustee to vote in respect of the claim of any Holder of any Securities in any such proceeding.

Section 7.05 Priorities. Any moneys or properties collected by the Trustee with respect to a series of Securities under this Article VII shall be applied in the order following, at the date or dates fixed by the Trustee for the distribution of such moneys or properties and, in the case of the distribution of such moneys or properties on account of the Securities of any series, upon presentation of the Securities of such series, and stamping thereon the payment, if only partially paid, and upon surrender thereof, if fully paid:

First: To the payment of all amounts due to the Trustee and any predecessor trustee hereunder under Section 11.01(a).

Second: Subject to Article XV (to the extent applicable to any series of Securities then outstanding), to the payment of the amounts then due and unpaid for principal of and any premium and interest on the Outstanding Securities of such series in respect of which or for the benefit of which such money has been collected, ratably, without preference or priority of any kind, according to the amounts due and payable on such Outstanding Securities for principal and any premium and interest, respectively.

Any surplus then remaining shall be paid to the Company or as directed by a court of competent jurisdiction.

Section 7.06 Control by Securityholders; Waiver of Past Defaults. The Holders of a majority in principal amount of the Securities of any series at the time Outstanding may direct the time, method and place of conducting any proceeding for any remedy available to the Trustee hereunder, or of exercising any trust or power hereby conferred upon the Trustee with respect to the Securities of such series, provided, however, that, subject to the provisions of Sections 11.01 and 11.02, the Trustee shall have the right to decline to follow any such direction if the Trustee being advised by counsel determines that the action so directed may not lawfully be taken or would be unduly prejudicial to Holders not joining in such direction or would involve the Trustee in personal liability (it being understood that the Trustee has no affirmative duty to determine whether any action is prejudicial to any Holder). Prior to any acceleration of the Maturity of the Securities of any series, the Holders of a majority in aggregate principal amount of such series of Securities at the time Outstanding may on behalf of the Holders of all of the Securities of such series waive any past Default or Event of Default hereunder and its consequences except a continuing Default in the payment of interest or any premium on or the principal of the Securities of such series and except as to a covenant or condition which under Section 14.02 cannot be modified or amended without the consent of the Holder of each Outstanding Security of such series affected, in which case the consent of the Holder of each Outstanding Security of such series affected shall be required for such waiver. Upon any such waiver the Company, the Trustee and the Holders of the Securities of such series 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 hereunder shall have been waived as permitted by this Section 7.06, said Default or Event of Default shall for all purposes of the Securities of such series and this Indenture be deemed to have been cured and to be not continuing.

Section 7.07 Limitation on Suits. No Holder of any Security of any series shall have any right to institute any action, suit or proceeding at law or in equity for the execution of any trust hereunder or for the appointment of a receiver or for any other remedy hereunder, in each case with respect to an Event of Default with respect to such series of Securities, unless such Holder previously shall have given to the Trustee written notice of one or more of the Events of Default herein specified with respect to such series of Securities, and unless also the Holders of 25% or more in principal amount of the Securities of such series then Outstanding shall have requested the Trustee in writing to take action in respect of the matter complained of, and unless also there shall have been offered to the Trustee security and indemnity reasonably satisfactory to it against the costs, expenses and liabilities to be incurred therein or thereby, and the Trustee, for 60 days after receipt of such notification, request and offer of indemnity, shall have neglected or refused to institute any such action, suit or proceeding; and such notification, request and offer of indemnity are hereby declared in every such case to be conditions precedent to any such action, suit or proceeding by any Holder of any Security of such series; it being understood and intended that no one or more of the Holders of Securities of such series shall have any right in any manner whatsoever by his, her, its or their action to enforce any right hereunder, except in the manner herein provided, and that every action, suit or proceeding at law or in equity shall be instituted, had and maintained in the manner herein provided and for the equal benefit of all Holders of the Outstanding Securities of such series; provided, however, that nothing in this Indenture or in the Securities of such series shall affect or impair the obligation of the Company, which is absolute and unconditional, to pay the principal of, premium, if any, and interest on the Securities of such series to the respective Holders of such Securities at the respective due dates in such Securities stated, or affect or impair the right, which is also absolute and unconditional, of such Holders to institute suit to enforce the payment thereof.

Section 7.08 Undertaking for Costs. All parties to this Indenture and each Holder of any Security, by such Holder's acceptance thereof, shall be deemed to have agreed that any court may in its discretion require, in any action, suit or proceeding for the enforcement of any right or remedy under this Indenture, or in any action, suit or proceeding against the Trustee for any action taken or omitted by it as Trustee, the filing by any party litigant in such action, suit or proceeding of an undertaking to pay the costs of such action, suit or proceeding, and that such court may in its discretion assess reasonable costs, including reasonable attorneys' fees and expenses, against any party litigant in such action, suit or proceeding, having due regard to the merits and good faith of the claims or defenses made by such party litigant; provided, however, that the provisions of this Section 7.08 shall not apply to any action, suit or proceeding instituted by the Trustee, to any action, suit or proceeding instituted by any one or more Holders of Securities holding in the aggregate more than 10% in principal amount of the Securities of any series Outstanding, or to any action, suit or proceeding instituted by any Holder of Securities of any series for the enforcement of the payment of the principal of or premium, if any, or the interest on, any of the Securities of such series, on or after the respective due dates expressed in such Securities.

Section 7.09 Remedies Cumulative. No remedy herein conferred upon or reserved to the Trustee or to the Holders of Securities of any series is intended to be exclusive of any other remedy or remedies, and each and every remedy shall be cumulative and shall be in addition to every other remedy given hereunder or now or hereafter existing at law or in equity or by statute. No delay or omission of the Trustee or of any Holder of the Securities of any series to exercise any right or power accruing upon any Default or Event of Default shall impair any such right or power or shall be construed to be a waiver of any such Default or Event of Default or an acquiescence therein; and every power and remedy given by this Article VII to the Trustee and to the Holders of Securities of any series, respectively, may be exercised from time to time and as often as may be deemed expedient by the Trustee or by the Holders of Securities of such series, as the case may be. In case the Trustee or any Holder of Securities of any series shall have proceeded to enforce any right under this Indenture and the proceedings for the enforcement thereof shall have been discontinued or abandoned because of waiver or for any other reason or shall have been adjudicated adversely to the Trustee or to such Holder of Securities, then and in every such case the Company, the Trustee and the Holders of the Securities of such series shall severally and respectively be restored to their former positions and rights hereunder, and thereafter all rights, remedies and powers of the Trustee and the Holders of the Securities of such series shall continue as though no such proceedings had been taken, except as to any matters so waived or adjudicated.

ARTICLE VIII

CONCERNING THE SECURITYHOLDERS

Section 8.01 Evidence of Action of Securityholders. Whenever in this Indenture it is provided that the Holders of a specified percentage or a majority in aggregate principal amount of the Securities or of any series of Securities 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 or majority have joined therein may be evidenced by (a) any instrument or any number of instruments of similar tenor executed by Securityholders in person, by an agent or by a proxy appointed in writing, including through an electronic system for tabulating consents operated by the Depositary for such series or otherwise (such action becoming effective, except as herein otherwise expressly provided, when such instruments or evidence of electronic consents are delivered to the Trustee and, where it is hereby expressly required, to the Company), or (b) by the record of the Holders of Securities voting in favor thereof at any meeting of Securityholders duly called and held in accordance with the provisions of Article IX, or (c) by a combination of such instrument or instruments and any such record of such a meeting of Securityholders.

Section 8.02 Proof of Execution or Holding of Securities. Proof of the execution of any instrument by a Securityholder or his, her or its agent or proxy and proof of the holding by any Person of any of the Securities shall be sufficient if made in the following manner:

(a) The fact and date of the execution by any Person of any such instrument may be proved (i) by the certificate of any notary public or other officer in any jurisdiction who, by the laws thereof, has power to take acknowledgments or proof of deeds to be recorded within such jurisdiction, that the Person who signed such instrument did acknowledge before such notary public or other officer the execution thereof, or (ii) by the affidavit of a witness of such execution sworn to before any such notary or other officer. Where such execution is by a Person acting in other than his or her individual capacity, such certificate or affidavit shall also constitute sufficient proof of his or her authority.

(b) The ownership of Securities of any series shall be proved by the Register of such Securities or by a certificate of the Registrar for such series.

(c) The record of any Holders' meeting shall be proved in the manner provided in Section 9.06.

(d) The Trustee may require such additional proof of any matter referred to in this Section 8.02 as it shall deem appropriate or necessary, so long as the request is a reasonable one.

(e) If the Company shall solicit from the Holders of Securities of any series any action, the Company may, at its option fix in advance a record date for the determination of Holders of Securities entitled to take such action, but the Company shall have no obligation to do so. Any such record date shall be fixed at the Company's discretion. If such a record date is fixed, such action may be sought or given before or after the record date, but only the Holders of Securities of record at the close of business on such record date shall be deemed to be Holders of Securities for the purpose of determining whether Holders of the requisite proportion of Outstanding Securities of such series have authorized or agreed or consented to such action, and for that purpose the Outstanding Securities of such series shall be computed as of such record date.

(a) The Company, the Trustee or any of their agents shall treat the Person in whose name any Security is registered as the owner of such Security for the purpose of receiving payment of principal of and premium, if any, and (subject to Section 3.08) interest, if any, on, such Security and for all other purposes whatsoever, whether or not such Security be overdue, and neither the Company, the Trustee nor any of their agents shall be affected by notice to the contrary. All payments made to any Holder, or upon his, her or its order, shall be valid, and, to the extent of the sum or sums paid, effectual to satisfy and discharge the liability for moneys payable upon such Security.

(b) None of the Company, the Trustee or any of their agents will have any responsibility or liability for any aspect of the records relating to or payments made on account of beneficial ownership interests in a Global Security or for maintaining, supervising or reviewing any records relating to such beneficial ownership interests.

Section 8.04 Effect of Consents. After an amendment, supplement, waiver or other action becomes effective as to any series of Securities, a consent to it by a Holder of such series of Securities is a continuing consent conclusive and binding upon such Holder and every subsequent Holder of the same Securities or portion thereof, and of any Security issued upon the transfer thereof or in exchange therefor or in place thereof, even if notation of the consent is not made on any such Security.

ARTICLE IX

SECURITYHOLDERS' MEETINGS

Section 9.01 Purposes of Meetings. A meeting of Securityholders of any or all series may be called at any time and from time to time pursuant to the provisions of this Article IX for any of the following purposes:

(a) to give any notice to the Company or to the Trustee, or to give any directions to the Trustee, or to consent to the waiving of any Default or Event of Default hereunder and its consequences, or to take any other action authorized to be taken by Securityholders pursuant to any of the provisions of Article VIII;

(b) to remove the Trustee and nominate a successor trustee pursuant to the provisions of Article XI;

(c) to consent to the execution of an Indenture or of indentures supplemental hereto pursuant to the provisions of Section 14.02; 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 Securities of any one or more or all series, as the case may be, under any other provision of this Indenture or under applicable law.

Section 9.02 Call of Meetings by Trustee. The Trustee may at any time call a meeting of all Securityholders of any or all series that may be affected by the action proposed to be taken, to take any action specified in Section 9.01, to be held at such time and at such place as the Trustee shall determine. Notice of every meeting of the Securityholders of a series, setting forth the time and the place of such meeting and in general terms the action proposed to be taken at such meeting, shall be mailed at the expense of the Company to Holders of Securities of such series at their addresses as they shall appear on the Register of the Company. Such notice shall be mailed not less than 20 nor more than 90 days prior to the date fixed for the meeting.

Section 9.03 Call of Meetings by Company or Securityholders. In case at any time the Company or the Holders of at least 10% in aggregate principal amount of the Securities of any or all series then Outstanding that may be affected by the action proposed to be taken, shall have requested the Trustee to call a meeting of Securityholders of such series, 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 Securityholders may determine the time and the place for such meeting and may call such meeting to take any action authorized in Section 9.01, by mailing notice thereof as provided in Section 9.02.

Section 9.04 Qualifications for Voting. To be entitled to vote at any meeting of Securityholders, a Person shall (a) be a Holder of one or more Securities affected by the action proposed to be taken at the meeting or (b) be a Person appointed by an instrument in writing as proxy by a Holder of one or more such Securities. The only Persons who shall be entitled to be present or to speak at any meeting of Securityholders shall be the Persons entitled to vote at such meeting and their counsel and any representatives of the Trustee and its counsel and any representatives of the Company and its counsel. Unless otherwise expressly provided pursuant to Section 3.01 with respect to the Securities of any series, any vote, consent, waiver or other action given or taken by the Holders of any series of Securities at a meeting shall be given or taken, as the case may be, by the Holders of such series of Securities as a separate class.

Section 9.05 Regulation of Meetings.

(a) Notwithstanding any other provisions of this Indenture, the Trustee may make such reasonable regulations as it may deem advisable for any meeting of Securityholders, in regard to proof of the holding of 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 deem fit.

(b) 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 Securityholders as provided in Section 9.03, in which case the Company or the Securityholders calling the meeting, as the case may be, shall in like manner appoint a temporary chair. A permanent chairman and a permanent secretary of the meeting shall be elected by majority vote of the meeting.

(c) At any meeting of Securityholders of a series, each Securityholder of such series or such Securityholder's proxy shall be entitled to one vote for each \$1,000 principal amount of Securities of such series Outstanding held or represented by him; provided, however, that no vote shall be cast or counted at any meeting in respect of any Security challenged as not Outstanding and ruled by the chairman of the meeting to be not Outstanding. If the Securities of any series are issuable in minimum denominations of less than \$1,000, then a Holder of such a Security in a principal amount of less than \$1,000 shall be entitled to a fraction of one vote which is equal to the fraction that the principal amount of such Security bears to \$1,000. The chairman of the meeting shall have no right to vote other than by virtue of Securities of such series held by him or her or instruments in writing as aforesaid duly designating him or her as the Person to vote on behalf of other Securityholders. At any meeting of the Securityholders of any series duly called pursuant to the provisions of Section 9.02 or 9.03, the presence of Persons holding or representing Securities of such series in an aggregate principal amount sufficient to take action as it concerns the Securities of such series upon the business for the transaction of which such meeting was called shall be necessary to constitute a quorum, and any such meeting may be adjourned from time to time by a majority of those present, whether or not constituting a quorum, and the meeting may be held as so adjourned without further notice.

Section 9.06 Voting. The vote upon any resolution submitted to any meeting of Securityholders of a series shall be by written ballots on which shall be subscribed the signatures of the Holders of Securities of such series or of their representatives by proxy and the principal amounts of the Securities of such series held or represented by them. 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 Securityholders 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 9.02. The record shall show the principal amounts of the Securities voting in favor of or against any resolution. 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.

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

Section 9.07 No Delay of Rights by Meeting. Nothing contained in this Article IX shall be deemed or construed to authorize or permit, by reason of any call of a meeting of Securityholders of any 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 Securityholders of such series under any of the provisions of this Indenture or of the Securities of such series.

REPORTS BY THE COMPANY AND THE TRUSTEE AND SECURITYHOLDERS' LISTS

Section 10.01 Reports by Trustee.

(a) So long as any Securities are outstanding, 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 at the times and in the manner provided therein. If required by Section 313(a) of the Trust Indenture Act, the Trustee shall, within 60 days after each anniversary following the date of this Indenture deliver to Holders a brief report which complies with the provisions of such Section 313(a).

(b) The Trustee shall, at the time of the transmission to the Holders of Securities of any report pursuant to the provisions of this Section 10.01, file a copy of such report with each stock exchange upon which the Securities are listed, if any, and also with the SEC in respect of a Security listed and registered on a national securities exchange, if any. The Company agrees to notify the Trustee when, as and if the Securities become listed on any stock exchange or any delisting thereof.

(c) The Company will reimburse the Trustee for all expenses incurred in the preparation and transmission of any report pursuant to the provisions of this Section 10.01 and of Section 10.02.

Section 10.02 Reports by the Company. The Company shall file with the Trustee and the SEC, and transmit to Holders, such information, documents and other reports, and such summaries thereof, as may be required pursuant to the Trust Indenture Act at the times and in the manner provided in the Trust Indenture Act; provided that, unless available on EDGAR, any such information, documents or reports required to be filed with the SEC pursuant to Section 13 or 15(d) of the Exchange Act shall be filed with the Trustee within 30 days after the same is filed with the SEC.

Delivery of such reports, information and documents to the Trustee is for informational purposes only and the Trustee's receipt of such shall not constitute actual or constructive notice of any information contained therein or determinable from information contained therein, including the Company's compliance with any of its covenants hereunder (as to which the Trustee is entitled to rely exclusively on Officer's Certificates). The Trustee shall not be obligated to monitor or confirm, on a continuing basis or otherwise, the Company's compliance with the covenants under this Indenture or with respect to any reports or other documents filed with the SEC or posted on the Company's website pursuant to the Indenture, or determine whether any reports have been filed or posted.

Section 10.03 Securityholders' Lists. The Company covenants and agrees that it will furnish or cause to be furnished to the Trustee:

(a) semi-annually, within 5 Business Days after each Record Date, but in any event not less frequently than semi-annually, a list in such form as the Trustee may reasonably require of the names and addresses of the Holders of Securities to which such Record Date applies, as of such Record Date, and

(b) 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 of similar form and content as of a date not more than 15 days prior to the time such list is furnished;

provided, however, that so long as the Trustee shall be the Registrar, such lists shall not be required to be furnished.

ARTICLE XI

CONCERNING THE TRUSTEE

Section 11.01 Rights of Trustees; Compensation and Indemnity. The Trustee accepts the trusts created by this Indenture upon the terms and conditions hereof, including the following, to all of which the parties hereto and the Holders from time to time of the Securities agree:

(a) The Trustee shall be entitled to such compensation as the Company and the Trustee shall from time to time agree in writing for all services rendered by it hereunder (including in any agent capacity in which it acts). The compensation of the Trustee shall not be limited by any provision of law in regard to the compensation of a trustee of an express trust. The Company shall reimburse the Trustee promptly upon its request for all reasonable and documented out-of-pocket expenses, disbursements and advances incurred or made by the Trustee (including the reasonable fees and reasonable and documented expenses and disbursements of its agents and counsel), except any such expense, disbursement or advance as may be attributable to its own gross negligence or willful misconduct as determined by a final non-appealable order of a court of competent jurisdiction.

The Company also agrees to indemnify each of the Trustee, any predecessor Trustee and their officers, employees, directors and agents hereunder for, and to hold them harmless against, any and all loss, liability, damage, claim, or expense incurred without its own gross negligence or willful misconduct as determined by a final non-appealable order of a court of competent jurisdiction, arising out of or in connection with this Indenture and the acceptance or administration of the trust or trusts hereunder and the performance of its duties (including in any agent capacity in which it acts)(including enforcement of this Section), as well as the reasonable and documented costs and expenses of defending itself against any claim or liability in connection with the exercise or performance of any of its powers or duties hereunder, except those caused by its own gross negligence or willful misconduct as determined by a final non-appealable order of a court of competent jurisdiction. The Trustee shall notify the Company promptly of any claim for which it may seek indemnity. The Company shall defend the claim and the Trustee shall cooperate in the defense. The Trustee may have separate counsel of its selection and the Company shall pay the reasonable and documented fees and expenses of such counsel. The Company need not pay for any settlement made without its consent, which consent shall not be unreasonably withheld.

As security for the performance of the obligations of the Company under this Section 11.01(a), the Trustee shall have a lien upon all property and funds held or collected by the Trustee as such, except funds held in trust by the Trustee to pay principal of, premium and interest on any Securities. The Trustee's right to receive payment of any amounts due under this Section 11.01(a) shall not be subordinate to any other liability or indebtedness of the Company. The indemnity under this Section 11.01(a) is payable upon demand by the Trustee. Notwithstanding any provisions of this Indenture to the contrary, the obligations of the Company to compensate and indemnify the Trustee under this Section 11.01(a) shall survive the resignation or removal of the Trustee, the termination of this Indenture and any satisfaction and discharge under Article XII. When the Trustee incurs fees or expenses or renders services after an Event of Default specified in clause (e) or (f) of Section 7.01 occurs, the expenses and compensation for the services are intended to constitute expenses of administration under any applicable federal or state bankruptcy, insolvency or similar laws.

(b) The Trustee may execute any of the trusts or powers hereof and perform any duty hereunder either directly or by its agents and attorneys and shall not be responsible for any misconduct or negligence on the part of any agent or attorney appointed with due care by it hereunder.

(c) The Trustee shall not be responsible in any manner whatsoever for the correctness of the recitals herein or in the Securities (except its certificates of authentication thereon) contained, all of which are made solely by the Company; and the Trustee shall not be responsible or accountable in any manner whatsoever for or with respect to the validity or execution or sufficiency of this Indenture or of the Securities (except its certificates of authentication thereon), and the Trustee makes no representation with respect thereto, except that the Trustee represents that it is duly authorized to execute and deliver this Indenture, authenticate the Securities and perform its obligations hereunder and that the statements made by it in a Statement of Eligibility on Form T-1 supplied to the Company are true and accurate, subject to the qualifications set forth therein. The Trustee shall not be accountable for the use or application by the Company of any Securities, or the proceeds of any Securities, authenticated and delivered by the Trustee in conformity with the provisions of this Indenture.

(d) Before the Trustee acts or refrains from acting, it may require an Officer's Certificate or an Opinion of Counsel or both. The Trustee shall not be liable for any action it takes or omits to take in good faith in reliance on such Officer's Certificate or Opinion of Counsel. The Trustee may consult with counsel of its selection, and advice of counsel shall be full and complete authorization and protection in respect of any action taken or suffered by the Trustee hereunder in good faith and in accordance with such advice of counsel.

(e) The Trustee may rely upon the certificate of the Secretary or one of the Assistant Secretaries of the Company as to the adoption of any Board Resolution or resolution of the stockholders of the Company, and any request, direction, order or demand of the Company mentioned herein shall be sufficiently evidenced by, and whenever in the administration of this Indenture the Trustee shall deem it desirable that a matter be proved or established prior to taking, suffering or omitting any action hereunder, the Trustee may rely upon, an Officer's Certificate of the Company (unless other evidence in respect thereof be herein specifically prescribed).

(f) The Trustee or any agent of the Trustee, in its individual or any other capacity, may become the owner or pledgee of Securities and, subject to Sections 310(b) and 311 of the Trust Indenture Act, may otherwise deal with the Company with the same rights it would have had if it were not the Trustee or such agent.

(g) Money held by the Trustee in trust hereunder need not be segregated from other funds except to the extent required by law. The Trustee shall be under no liability for interest on any money received by it hereunder except as otherwise agreed in writing with the Company.

(h) Any action taken by the Trustee pursuant to any provision hereof at the request or with the consent of any Person who at the time is the Holder of any Security shall be conclusive and binding in respect of such Security upon all future Holders thereof or of any Security or Securities which may be issued for or in lieu thereof in whole or in part, whether or not such Security shall have noted thereon the fact that such request or consent had been made or given.

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

(j) The Trustee shall not be under any obligation to exercise any of the rights or powers vested in it by this Indenture at the request, order or direction of any of the Holders of the Securities, pursuant to any provision of this Indenture, unless one or more of the Holders of the Securities shall have offered, and if requested, provided to the Trustee security or indemnity satisfactory to the Trustee against the costs, expenses and liabilities which may be incurred by it therein or thereby.

(k) The Trustee shall not be liable for any action taken or omitted by it in good faith and believed by it to be authorized or within its discretion or within the rights or powers conferred upon it by this Indenture.

(l) The Trustee shall not be deemed to have knowledge or notice of any Default or Event of Default unless a Responsible Officer of the Trustee has actual knowledge thereof or unless the Company or Holders of not less than 25% of the Outstanding Securities notify the Trustee thereof in writing at the Corporate Trust Office.

(m) 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, direction, consent, order, bond, debenture, note, other evidence of Indebtedness or other paper or document, but the Trustee may, but shall not be required to, make further inquiry or investigation into such facts or matters as it may see fit at the expense of the Company.

(n) The rights, privileges, protections, immunities and benefits given to the Trustee, including, without limitation, its right to be indemnified, are extended to, and shall be enforceable by, the Trustee in each of its capacities hereunder.

(o) In no event shall the Trustee be responsible or liable for special, indirect, punitive, incidental or consequential loss or damage of any kind whatsoever (including, but not limited to, loss of profit, goodwill or opportunity), whether or not foreseeable, even if the Trustee has been advised of the possibility of such loss or damage and regardless of the form of action. The provisions of this Section shall survive the termination or discharge of this Indenture and the resignation or removal of the Trustee.

(p) The Trustee may request that the Company deliver an Officer's Certificate setting forth the names of individuals and/or titles of officers authorized at such time to take specified actions pursuant to this Indenture, which Officer's Certificate may be signed by any person authorized to sign an Officer's Certificate, including any person specified as so authorized in any such certificate previously delivered and not superseded.

(q) The permissive right of the Trustee to take or refrain from taking action hereunder shall not be construed as a duty.

(r) The Trustee is not required to give any bond or surety with respect to the performance of its duties or the exercise of its powers under this Indenture.

(s) The Trustee may refrain from taking any action in any jurisdiction if taking such action in that jurisdiction would, in the reasonable opinion of the Trustee based on written legal advice received from qualified legal counsel in the relevant jurisdiction, be contrary to any law of that jurisdiction or, to the extent applicable, the State of New York. Furthermore, the Trustee may refrain from taking such action if, in the reasonable opinion of the Trustee based on such legal advice, it would otherwise render the Trustee liable to any person in that jurisdiction or the State of New York and there has not been offered to the Trustee pre-funding, security and/or indemnity satisfactory to it against the liabilities to be incurred therein or thereby, or the Trustee would not have the legal capacity to take such action in that jurisdiction by virtue of applicable law in that jurisdiction or the State of New York or by virtue of a written order of any court or other competent authority in that jurisdiction that the Trustee does not have such legal capacity.

Section 11.02 Duties of Trustee.

(a) If one or more of the Events of Default specified in Section 7.01 with respect to the Securities of any series shall have happened, then, during the continuance thereof, the Trustee shall, with respect to such Securities, exercise such of the rights and powers vested in it by this Indenture, and shall 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 such person's own affairs.

(b) None of the provisions of this Indenture shall be construed as relieving the Trustee from liability for its own negligent action, negligent failure to act, or its own willful misconduct, except that, anything in this Indenture contained to the contrary notwithstanding,

(i) unless and until an Event of Default specified in Section 7.01 with respect to the Securities of any series shall have happened which at the time is continuing,

(A) the Trustee undertakes to perform such duties and only such duties with respect to the Securities of that series as are specifically set out in this Indenture, and no implied covenants or obligations shall be read into this Indenture against the Trustee, whose duties and obligations shall be determined solely by the express provisions of this Indenture; and

- (B) the Trustee may conclusively rely, as to the truth of the statements and the correctness of the opinions expressed therein, in the absence of gross negligence or willful misconduct on the part of the Trustee, upon certificates and opinions furnished to it pursuant to the express provisions of this Indenture; but in the case of any such certificates or opinions which, by the provisions of this Indenture, 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, statements, opinions or conclusions stated therein);
- (ii) the Trustee shall not be liable to any Holder of Securities or to any other Person for any error of judgment made in good faith by a Responsible Officer or Officers of the Trustee, unless it shall be proved that the Trustee was negligent in ascertaining the pertinent facts; and
- (iii) the Trustee shall not be liable to any Holder of Securities or to any other Person with respect to any action taken or omitted to be taken by it in good faith, in accordance with the direction of Securityholders given as provided in Section 7.06, relating to the time, method and place of conducting any proceeding for any remedy available to it or exercising any trust or power conferred upon it by this Indenture.

(c) None of the provisions of this Indenture shall require the Trustee to expend or risk its own funds or otherwise to 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.

(d) 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 11.02.

Section 11.03 Notice of Defaults. Within the later of 90 days after the occurrence thereof, if known to the Trustee and promptly after obtaining knowledge thereof, the Trustee shall give to the Holders of the Securities of a series notice of each Default or Event of Default with respect to the Securities of such series known to the Trustee, by transmitting such notice to Holders at their addresses as the same shall then appear on the Register of the Company, unless such Default shall have been cured or waived before the giving of such notice (the term "Default" being hereby defined to be the events specified in Section 7.01, which are, or after notice or lapse of time or both would become, Events of Default as defined in said Section). Except in the case of a Default or Event of Default in payment of the principal of, premium, if any, or interest on any of the Securities of such series when and as the same shall become payable, or to make any sinking fund payment as to Securities of the same series, the Trustee shall be protected in withholding such notice, if and so long as a Responsible Officer or Responsible Officers of the Trustee in good faith determines that the withholding of such notice is in the interests of the Holders of the Securities of such series.

Section 11.04 Eligibility; Disqualification.

(a) The Trustee shall at all times satisfy the requirements of TIA Section 310(a). The Trustee shall have a combined capital and surplus of at least \$50 million as set forth in its most recent published annual report of condition, and shall have a Corporate Trust Office. If at any time the Trustee shall cease to be eligible in accordance with the provisions of this Section 11.04, it shall resign immediately in the manner and with the effect hereinafter specified in this Article.

(b) The Trustee shall comply with TIA Section 310(b); provided, however, that there shall be excluded from the operation of TIA Section 310(b)(i) any indenture or indentures under which other securities or certificates of interest or participation in other securities of the Company are outstanding if the requirements for such exclusion set forth in TIA Section 310(b)(i) are met. If the Trustee has or shall acquire a conflicting interest within the meaning of Section 310(b) of the Trust Indenture Act, the Trustee shall either eliminate such interest or resign, to the extent and in the manner provided by, and subject to the provisions of, the Trust Indenture Act and this Indenture. If Section 310(b) of the Trust Indenture Act is amended any time after the date of this Indenture to change the circumstances under which a Trustee shall be deemed to have a conflicting interest with respect to the Securities of any series or to change any of the definitions in connection therewith, this Section 11.04 shall be automatically amended to incorporate such changes.

Section 11.05 Resignation and Notice; Removal. The Trustee, or any successor to it hereafter appointed, may at any time resign and be discharged of the trusts hereby created with respect to any one or more or all series of Securities by giving to the Company notice in writing. Such resignation shall take effect upon the appointment of a successor Trustee and the acceptance of such appointment by such successor Trustee. Any Trustee hereunder may be removed with respect to any series of Securities at any time by the filing with such Trustee and the delivery to the Company of an instrument or instruments in writing signed by the Holders of a majority in principal amount of the Securities of such series then Outstanding, specifying such removal and the date when it shall become effective.

If at any time:

(1) the Trustee shall fail to comply with the provisions of TIA Section 310(b) after written request therefor by the Company or by any Holder who has been a bona fide Holder of a Security for at least six months (or, if it is a shorter period, the period since the initial issuance of the Securities of such series), or

(2) the Trustee shall cease to be eligible under Section 11.04 and shall fail to resign after written request therefor by the Company or by any Holder who has been a bona fide Holder of a Security for at least six months (or, if it is a shorter period, the period since the initial issuance of the Securities of such series), or

(3) the Trustee shall become incapable of acting 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, (i) the Company by written notice to the Trustee may remove the Trustee and appoint a successor Trustee with respect to all Securities, or (ii) subject to TIA Section 315(e), any Securityholder who has been a bona fide Holder of a Security for at least six months (or, if it is a shorter period, the period since the initial issuance of the Securities of such series) may, on behalf of himself and all others similarly situated, petition any court of competent jurisdiction for the removal of the Trustee with respect to all Securities and the appointment of a successor Trustee or Trustees.

In addition, the Company may remove the Trustee with respect to Securities of any series without cause if the Company gives written notice to the Trustee of such proposed removal at least three months in advance of the proposed effective date of such removal.

Upon its resignation or removal, any Trustee shall be entitled to the payment of compensation for the services rendered hereunder by such Trustee and to the payment of all reasonable and documented expenses incurred hereunder and all moneys then due to it hereunder. The Trustee's rights to indemnification provided in Section 11.01(a) shall survive its resignation or removal, the satisfaction and discharge of the Indenture and the termination of the Indenture for any reason.

Section 11.06 Successor Trustee by Appointment.

(a) In case at any time the Trustee shall resign, or shall be removed or if a vacancy exists in the office of the Trustee for any reason, with respect to Securities of any or all series, the Company shall promptly appoint a successor Trustee. However, if all or substantially all the assets of the Company shall be in the possession of one or more custodians or receivers lawfully appointed, or of trustees in bankruptcy or reorganization proceedings (including a trustee or trustees appointed under the provisions of the federal bankruptcy laws, as now or hereafter constituted), or of assignees for the benefit of creditors, such receivers, custodians, trustees or assignees, as the case may be, shall promptly appoint a successor Trustee with respect to the Securities of any or all series. Subject to the provisions of Sections 11.04 and 11.05, upon the appointment as aforesaid of a successor Trustee with respect to the Securities of any series, the Trustee with respect to the Securities of such series shall cease to be Trustee hereunder. After any such appointment other than by the Holders of Securities of any such series, the Person making such appointment shall forthwith cause notice thereof to be mailed to the Holders of Securities of such series at their addresses as the same shall then appear on the Register of the Company. Any failure of the Company to mail such notice, or any defect therein, shall not, however, in any way impair or affect the validity of such appointment.

(b) If any Trustee with respect to the Securities of any series shall resign or be removed and a successor Trustee shall not have been appointed by the Company or, if any successor Trustee so appointed shall not have accepted its appointment within 30 days after such appointment shall have been made, the resigning Trustee at the expense of the Company may apply to any court of competent jurisdiction for the appointment of a successor Trustee. If in any other case a successor Trustee shall not be appointed pursuant to the foregoing provisions of this Section 11.06 within three months after such appointment might have been made hereunder, the Holder of any Security of the applicable series or any retiring Trustee at the expense of the Company may apply to any court of competent jurisdiction to appoint a successor Trustee. Such court may thereupon, in any such case, after such notice, if any, as such court may deem proper and prescribe, appoint a successor Trustee.

(c) Any successor Trustee appointed hereunder with respect to the Securities of one or more series shall execute, acknowledge and deliver to its predecessor Trustee and to the Company, or to the receivers, trustees, assignees or court appointing it, as the case may be, an instrument accepting such appointment hereunder, and thereupon such successor Trustee, without any further act, deed or conveyance, shall become vested with all the authority, rights, powers, trusts, immunities, duties and obligations with respect to such series of such predecessor Trustee with like effect as if originally named as Trustee hereunder, and such predecessor Trustee, upon payment of its charges and disbursements then unpaid, shall thereupon become obligated to pay over, and such successor Trustee shall be entitled to receive, all moneys and properties held by such predecessor Trustee as Trustee hereunder with respect to the Securities of such series, subject nevertheless to its lien provided for in Section 11.01(a). Nevertheless, on the written request of the Company or of the successor Trustee or of the Holders of at least 10% in principal amount of the Securities of any such series then Outstanding, such predecessor Trustee, upon payment of its said charges and disbursements, shall execute and deliver an instrument transferring to such successor Trustee upon the trusts herein expressed all the rights, powers and trusts of such predecessor Trustee with respect to the Securities of such series and shall assign, transfer and deliver to the successor Trustee all moneys and properties held by such predecessor Trustee with respect to the Securities of such series, subject nevertheless to its lien provided for in Section 11.01(a); and, upon request of any such successor Trustee or the Company shall make, execute, acknowledge and deliver any and all instruments in writing for more fully and effectually vesting in and confirming to such successor Trustee all such authority, rights, powers, trusts, immunities, duties and obligations.

Section 11.07 Successor Trustee by Merger. Any Person into which the Trustee or any successor to it in the trusts created by this Indenture shall be merged or converted, or any Person with which it or any successor to it shall be consolidated, or any Person resulting from any merger, conversion or consolidation to which the Trustee or any such successor to it shall be a party, or any Person to which the Trustee or any successor to it shall sell or otherwise transfer all or substantially all of the corporate trust business of the Trustee, shall be the successor Trustee under this Indenture without the execution or filing of any paper or any further act on the part of any of the parties hereto; provided that such Person shall be otherwise qualified and eligible under this Article. In case at the time such successor to the Trustee shall succeed to the trusts created by this Indenture with respect to one or more series of Securities, any of such Securities shall have been authenticated but not delivered by the Trustee then in office, any successor to such Trustee may adopt the certificate of authentication of any predecessor Trustee, and deliver such Securities so authenticated; and in case at that time any of the Securities shall not have been authenticated, any successor to the Trustee may authenticate such Securities either in the name of any predecessor hereunder or in the name of the successor Trustee; and in all such cases such certificates shall have the full force which it is anywhere in the Securities or in this Indenture provided that the certificate of the Trustee shall have; provided, however, that the right to adopt the certificate of authentication of any predecessor Trustee or authenticate Securities in the name of any predecessor Trustee shall apply only to its successor or successors by merger, conversion or consolidation.

Section 11.08 Right to Rely on Officer's Certificate and/or Opinion of Counsel. 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 suffering any action hereunder, such matter (unless other evidence in respect thereof be herein specifically prescribed) may, in the absence of gross negligence or willful misconduct on the part of the Trustee, be deemed to be conclusively proved and established by an Officer's Certificate and/or Opinion of Counsel with respect thereto delivered to the Trustee, and such Officer's Certificate and/or Opinion of Counsel, in the absence of gross negligence or willful misconduct on the part of the Trustee, shall be full warrant to the Trustee for any action taken, suffered or omitted by it under the provisions of this Indenture upon the faith thereof.

Section 11.09 Appointment of Authenticating Agent. The Trustee may appoint an agent (the "Authenticating Agent") acceptable to the Company to authenticate the Securities, and the Trustee shall give written notice of such appointment to all Holders of Securities of the series with respect to which such Authenticating Agent will serve. Unless limited by the terms of such appointment, any such Authenticating Agent may authenticate Securities whenever the Trustee may do so. Each reference in this Indenture to authentication by the Trustee includes authentication by the Authenticating Agent. Securities so authenticated shall be entitled to the benefits of this Indenture and shall be valid and obligatory for all purposes as if authenticated by the Trustee hereunder.

Each Authenticating Agent shall at all times be a corporation organized and doing business and in good standing under the laws of the United States, any State thereof or the District of Columbia, authorized under such laws to act as Authenticating Agent, having a combined capital and surplus of not less than \$50,000,000 and subject to supervision or examination by Federal or State authority. If such corporation publishes reports of condition at least annually, pursuant to law or to the requirements of said supervising or examining authority, then for the purposes of this Article XI, the combined capital and surplus of such corporation 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 Article XI, it shall resign immediately in the manner and with the effect specified in this Article XI.

Any corporation into which an Authenticating Agent may be merged or converted or with which it may be consolidated, or any corporation resulting from any merger, conversion or consolidation to which such Authenticating Agent shall be a party, or any corporation succeeding to the corporate agency or corporate trust business of an Authenticating Agent, shall continue to be an Authenticating Agent, provided such corporation shall be otherwise eligible under this Article XI, without the execution or filing of any paper or any further act on the part of the Trustee or the Authenticating Agent.

An Authenticating Agent may resign at any time by giving written notice thereof to the Trustee and to the Company. The Trustee may at any time terminate the agency of an Authenticating Agent by giving written notice thereof 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 such Authenticating Agent shall cease to be eligible in accordance with the provisions of this Section 11.09, the Trustee may appoint a successor Authenticating Agent which shall be acceptable to the Company and shall give written notice of such appointment to all Holders of Securities of the series with respect to which such Authenticating Agent will serve. Any successor Authenticating Agent upon acceptance of its appointment hereunder shall become vested with all the rights, powers and duties of its predecessor hereunder, with like effect as if originally named as an Authenticating Agent. No successor Authenticating Agent shall be appointed unless eligible under the provisions of this Section 11.09.

The Company agrees to pay to each Authenticating Agent from time to time reasonable compensation for its services under this Section 11.09.

Section 11.10 Communications by Securityholders with Other Securityholders. Holders of Securities may communicate pursuant to Section 312(b) of the Trust Indenture Act with other Holders with respect to their rights under this Indenture or the Securities. The Company, the Trustee, the Registrar and anyone else shall have the protection of Section 312(c) of the Trust Indenture Act with respect to such communications.

ARTICLE XII

SATISFACTION AND DISCHARGE; DEFEASANCE

Section 12.01 Applicability of Article. The provisions of this Article shall be applicable to the Securities of all series issued pursuant to this Indenture, except as otherwise specified pursuant to Section 3.01.

Section 12.02 Satisfaction and Discharge of Indenture. This Indenture, with respect to the Securities of any series (if all series issued under this Indenture are not to be affected), shall, upon Company Order, cease to be of further effect (except as to any surviving rights of registration of transfer or exchange of such Securities herein expressly provided for and the rights of the Holders of the Securities of such series to receive, the principal of and premium, if any, and interest on such Securities as and when the same shall become due and payable and except as otherwise provided in the last paragraph of this Section 12.02), and the Trustee, at the expense of the Company, shall execute such instruments reasonably requested by the Company acknowledging satisfaction and discharge of this Indenture with respect to the Securities of such series, when,

(a) either:

- (i) all Securities of such series theretofore authenticated and delivered (other than (A) Securities that have been destroyed, lost or stolen and that have been replaced or paid as provided in Section 3.07 and (B) 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 Section 6.03(e)) have been delivered to the Trustee for cancellation; or
- (ii) all 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) if redeemable at the option of the Company (including, without limitation, by operation of any mandatory sinking fund), 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,

and the Company, in the case of (A), (B) or (C) above, has irrevocably deposited or caused to be deposited with the Trustee funds in trust for the purpose an amount in cash in the Currency in which such Securities are payable (subject to Section 12.08) sufficient to pay and discharge the entire indebtedness on such Securities for principal and premium, if any, and interest to the date of such deposit (in the case of Securities that have become due and payable) or to the Stated Maturity thereof or, in the case of Securities of such series which are to be called for redemption as contemplated by (C) above, the applicable Redemption Date, as the case may be, and including any mandatory sinking fund payments as and when the same shall become due and payable; provided, however, that, if a Default of the nature described in clauses (e) or (f) of Section 7.01 shall have occurred at any time during the period ending on and including the date of such deposit or if the Trustee or any Paying Agent is required to return the monies then on deposit with or held by the Trustee or such Paying Agent to the Company or to a trustee in bankruptcy, receiver, conservator or other similar Person, or the Trustee or any Paying Agent is not permitted to apply any such funds to pay the principal of and premium, if any, and interest on the Securities of such series (including to make sinking fund payments) as and when the same shall become due and payable, the obligations of the Company under this Indenture with respect to such Securities shall not be deemed terminated or discharged;

(b) the Company has paid or caused to be paid all other sums payable hereunder by the Company with respect to the Securities of such series;

(c) 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 satisfaction and discharge of this Indenture with respect to such series have been complied with; and

(d) the Company has delivered irrevocable instructions to the Trustee under this Indenture to apply the deposited money toward the payment of the Securities of such series at the Stated Maturity or Redemption Date, as the case may be.

Notwithstanding the satisfaction and discharge of this Indenture with respect to the Securities of any series, the obligations of the Company to the Trustee under Section 11.01 and in the case of satisfaction and discharge under 12.02(a)(ii), the provisions of Sections 3.04, 3.05, 3.06, 3.07, 3.10, 6.02 and 6.03 and this Article XII, and, if the Securities of such series are to be redeemed prior to their Stated Maturity (including, without limitation, pursuant to a mandatory sinking fund), the provisions of Article IV hereof, and, if the Securities of such series are convertible into or exchangeable for other securities or property, the rights of the Holders of such Securities to convert or exchange, and the obligations of the Company to convert or exchange, such Securities into other securities or property, and, if money shall have been deposited with the Trustee pursuant to clause (a) of this Section, the obligations of the Trustee under Section 12.07 and Section 6.03(e) shall survive such satisfaction and discharge.

Section 12.03 Defeasance and Covenant Defeasance upon Deposit of Moneys or U.S. Government Obligations. At the Company's option, either (x) the Company shall be deemed to have been Discharged (as defined below) from its obligations with respect to Securities of any series on the first day after the applicable conditions set forth below have been satisfied or (y) the Company shall cease to be under any obligation to comply with any term, provision or condition set forth in Section 6.04 and Section 10.02 with respect to Securities of any series (and, if so specified pursuant to Section 3.01, any other restrictive covenant added for the benefit of such series pursuant to Section 3.01) ("covenant defeasance") upon the satisfaction of the applicable conditions set forth below:

(a) the Company shall have deposited or caused to be deposited irrevocably with the Trustee as trust funds in trust, specifically pledged as security for, and dedicated solely to, the benefit of the Holders of the Securities of such series (i) money in the Currency in which such Securities are payable in an amount, or (ii) U.S. Government Obligations (as defined below) that, through the payment of interest and principal in respect thereof in accordance with their terms, will provide, not later than one day before the due date of any payment, money in the Currency in which such Securities are payable in an amount, or (iii) a combination of (i) and (ii), sufficient (without consideration of any reinvestment of such principal and interest) to pay and discharge each installment of principal (including any mandatory sinking fund payments) of and premium, if any, and interest on, the Outstanding Securities of such series on the dates such installments of interest or principal and premium are due and, if the Securities of such series are to be called for redemption as described in clause (d) below, to pay and discharge the Redemption Price on the Securities called for redemption on the applicable Redemption Date;

(b) no Default with respect to the Securities of such series shall have occurred and be continuing on the date of such deposit (other than a Default resulting from the borrowing of funds and the grant of any related liens to be applied to such deposit) and, solely in the case of Discharge pursuant to clause (x) of the first paragraph of this Section 12.03, no Default with respect to the Securities of such series under either clause (e) or (f) of Section 7.01 shall have occurred at any time during the period ending on and including the date of such deposit;

(c) the Company shall have delivered to the Trustee an Opinion of Counsel to the effect that Holders of the Securities of such series will not recognize income, gain or loss for U.S. federal income tax purposes as a result of the Company's exercise of its option under this Section 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 option had not been exercised and, in the case of the Securities of such series being Discharged pursuant to clause (x) of the first paragraph of this Section 12.03, such Opinion of Counsel shall be based upon and accompanied by a ruling to that effect received by the Company from or published by the Internal Revenue Service;

(d) if the monies or U.S. Government Obligations or combination thereof, as the case may be, deposited under clause (a) above are sufficient to pay the principal of and premium, if any, and interest on the Securities of such series (including, without limitation, any mandatory sinking fund payment) or any portion thereof to be redeemed on a particular Redemption Date (including, without limitation, pursuant to a mandatory sinking fund), the Company shall have given to the Trustee irrevocable instructions to redeem such Securities on such date and shall have made arrangements satisfactory to the Trustee for the giving of notice of such redemption by the Trustee in the name, and at the expense, of the Company; and

(e) the Company shall have delivered to the Trustee an Officer's Certificate and an Opinion of Counsel, each stating that all conditions precedent to such action under this Indenture have been complied with.

"Discharged" means, with respect to the Securities of any series, that the Company shall be deemed to have paid and discharged the entire indebtedness represented by, and obligations under, the Securities of such series and to have satisfied all the obligations under this Indenture relating to the Securities of such series (and the Trustee, at the expense of the Company, shall execute such instruments reasonably requested by the Company acknowledging the same), except for the following, all of which shall survive such Discharge and remain in full force and effect with respect to the Securities of such series: (A) the rights of Holders of Securities of such series to receive, from the trust fund described in clause (a) above, payment of the principal of and premium, if any, and interest on such Securities when such payments are due, (B) Sections 3.04, 3.05, 3.06, 3.07, 3.10, 6.02 and 6.03, (C) if the Securities of such series are to be redeemed prior to their Stated Maturity, the provisions of Article IV hereof, (D) if the Securities of such series are convertible into or exchangeable for other securities or property, the rights of the Holders of such Securities to convert or exchange, and the obligations of the Company to convert or exchange, such Securities into such other securities or property, (E) the provisions of this Article XII and (F) the rights, powers, trusts, duties, indemnities and immunities of the Trustee hereunder.

“U.S. Government Obligations” means securities that are (i) direct obligations of the United States for the payment of which its full faith and credit is pledged or (ii) obligations of a Person controlled or supervised by and acting as an agency or instrumentality of the United States the timely of payment of which is unconditionally guaranteed as a full faith and credit obligation by the United States, that, in either case under clauses (i) or (ii) are not callable or redeemable at the option of the issuer thereof, and shall also include a depositary receipt issued by a bank or trust company as custodian with respect to any such U.S. Government Obligation or a specific payment of interest on or principal of any such U.S. Government Obligation held by such custodian for the account of the holder of a depositary receipt; provided that (except as required by law) such custodian is not authorized to make any deduction from the amount payable to the holder of such depositary receipt from any amount received by the custodian in respect of the U.S. Government Obligation or the specific payment of interest on or principal of the U.S. Government Obligation evidenced by such depositary receipt.

Section 12.04 Repayment to Company. The Trustee and any Paying Agent shall promptly pay to the Company (or to its designee) upon delivery of a Company Order any moneys or U.S. Government Obligations deposited pursuant to Sections 12.02 and 12.03 with respect to the Securities of any series and held by them that are in excess of the monies and/or U.S. Government Obligations that were required to effect the satisfaction and discharge, covenant defeasance or Discharge, as applicable, with respect to the Securities of such series, including any such moneys or obligations held by the Trustee under any escrow trust agreement entered into pursuant to Section 12.06. The provisions of Section 6.03(e) shall apply to any money held by the Trustee or any Paying Agent under this Article.

Section 12.05 Indemnity for U.S. Government Obligations. The Company shall pay and shall indemnify the Trustee against any tax, fee or other charge imposed on or assessed against the deposited U.S. Government Obligations or the principal or interest received on such U.S. Government Obligations.

Section 12.06 [Reserved].

Section 12.07 Application of Trust Money.

(a) Neither the Trustee nor any other Paying Agent shall be required to pay interest on any moneys deposited pursuant to the provisions of this Indenture, except such as it shall agree with the Company in writing to pay thereon.

(b) Subject to Section 6.03(e), any monies and U.S. Government Obligations which at any time shall be deposited by the Company or on its behalf with the Trustee or any other Paying Agent for the purpose of paying the principal of, premium, if any, and interest on any of the Securities shall be and are hereby assigned, transferred and set over to the Trustee or such other Paying Agent in trust for the respective Holders of the Securities for the purpose for which such moneys shall have been deposited, and such funds shall be applied by the Trustee or Paying Agent in accordance with the provisions of such Securities and this Indenture to the payment of all sums due and to become due on such Securities in respect of principal and premium, if any, and interest; but such moneys need not be segregated from other funds except to the extent required by law. Anything in this Indenture to the contrary notwithstanding, neither the Company nor any of its Subsidiaries nor any of their respective Affiliates may act as Paying Agent for any Securities in respect of which money or U.S. Government Obligations have been deposited pursuant to this Article XII.

Section 12.08 Deposits of Non-U.S. Currencies. Notwithstanding the foregoing provisions of this Article, if the Securities of any series are payable in a Currency other than U.S. Dollars, the Currency or the nature of the government obligations to be deposited with the Trustee under the foregoing provisions of this Article shall be as set forth in a Board Resolution, a Company Order or in one or more supplemental indentures hereto and may be deposited with an entity appointed by the Company and reasonably acceptable to the Trustee for purposes of holding the funds until payment to Holders.

ARTICLE XIII

IMMUNITY OF CERTAIN PERSONS

Section 13.01 No Personal Liability. No recourse shall be had for the payment of the principal of, or the premium, if any, or interest on, any Security or for any claim based thereon or otherwise in respect thereof or of the Indebtedness represented thereby, or upon any obligation, covenant or agreement of this Indenture, against any incorporator, stockholder, officer or director, as such, past, present or future, of the Company or of any successor corporation, either directly or through the Company or any successor corporation, whether by virtue of any constitutional provision, statute or rule of law, or by the enforcement of any assessment or penalty or otherwise; it being expressly agreed and understood that this Indenture and the Securities are solely corporate obligations, and that no personal liability whatsoever shall attach to, or be incurred by, any incorporator, stockholder, officer or director, as such, past, present or future, of the Company or of any successor corporation, either directly or through the Company or any successor corporation, because of the incurring of the Indebtedness hereby authorized or under or by reason of any of the obligations, covenants, promises or agreements contained in this Indenture or in any of the Securities, or to be implied herefrom or therefrom, and that all liability, if any, of that character against every such incorporator, stockholder, officer and director is, by the acceptance of the Securities and as a condition of, and as part of the consideration for, the execution of this Indenture and the issue of the Securities expressly waived and released.

ARTICLE XIV

SUPPLEMENTAL INDENTURES

Section 14.01 Without Consent of Securityholders. Except as otherwise provided as contemplated by Section 3.01 with respect to any series of Securities, the Company and the Trustee, at any time and from time to time, may enter into one or more indentures supplemental hereto, in form satisfactory to the Trustee, for any one or more of or all the following purposes:

(a) to add to the covenants and agreements of the Company, to be observed thereafter and during the period, if any, in such supplemental indenture or indentures expressed, and to add Events of Default, in each case for the protection or benefit of the Holders of all or any series of the Securities (and if such covenants, agreements and Events of Default are to be for the benefit of fewer than all series of Securities, stating that such covenants, agreements and Events of Default are expressly being included for the benefit of such series as shall be identified therein), or to surrender any right or power herein conferred upon the Company;

(b) to delete or modify any Events of Default with respect to any series of the Securities, the form and terms of which are being first established pursuant to such supplemental indenture as permitted in Section 3.01 (and, if any such Event of Default is applicable to fewer than all such series of the Securities, specifying the series to which such Event of Default is applicable), and to specify the rights and remedies of the Trustee and the Holders of such Securities in connection therewith;

(c) to add to or change any of the provisions of this Indenture to provide, change or eliminate any restrictions on the payment of principal of or premium, if any, on Securities; provided that any such action shall not adversely affect the interests of the Holders of Securities of any series in any material respect;

(d) to change or eliminate any of the provisions of this Indenture; provided that any such change or elimination shall become effective only when there is no Outstanding Security of any series created prior to the execution of such supplemental indenture that is entitled to the benefit of such provision and as to which such supplemental indenture would apply;

(e) to evidence the succession of another entity to the Company, or successive successions, and the assumption by such successor of the covenants and obligations of the Company contained in the Securities of one or more series and in this Indenture or any supplemental indenture;

(f) to evidence and provide for the acceptance of appointment hereunder by a successor Trustee with respect to one or more series of Securities and to add to or change any of the provisions of this Indenture as shall be necessary for or facilitate the administration of the trusts hereunder by more than one Trustee, pursuant to the requirements of Section 11.06(c);

(g) to secure any series of Securities;

(h) to evidence any changes to this Indenture pursuant to Sections 11.05, 11.06 or 11.07 hereof as permitted by the terms thereof;

(i) to cure any ambiguity or inconsistency or to correct or supplement any provision contained herein or in any indenture supplemental hereto which may be defective or inconsistent with any other provision contained herein or in any supplemental indenture or to conform the terms hereof, as amended and supplemented, that are applicable to the Securities of any series to the description of the terms of such Securities in the offering memorandum, prospectus supplement or other offering document applicable to such Securities at the time of initial sale thereof;

(j) to add to or change or eliminate any provision of this Indenture as shall be necessary or desirable in accordance with any amendments to the Trust Indenture Act;

(k) to add guarantors or co-obligors with respect to any series of Securities or to release guarantors from their guarantees of Securities in accordance with the terms of the applicable series of Securities;

(l) to make any change in any series of Securities that does not adversely affect in any material respect the rights of the Holders of such Securities;

(m) to provide for uncertificated securities in addition to certificated securities;

(n) to supplement any of the provisions of this Indenture to such extent as shall be necessary to permit or facilitate the defeasance and discharge of any series of Securities; provided that any such action shall not adversely affect the interests of the Holders of Securities of such series or any other series of Securities in any material respect;

(o) to prohibit the authentication and delivery of additional series of Securities; or

(p) to establish the form and terms of Securities of any series as permitted in Section 3.01, or to authorize the issuance of additional Securities of a series previously authorized or to add to the conditions, limitations or restrictions on the authorized amount, terms or purposes of issue, authentication or delivery of the Securities of any series, as herein set forth, or other conditions, limitations or restrictions thereafter to be observed.

Subject to the provisions of Section 14.03, the Trustee is authorized to join with the Company in the execution of any such supplemental indenture, to make the further agreements and stipulations which may be therein contained and to accept the conveyance, transfer, assignment, mortgage or pledge of any property or assets thereunder.

Any supplemental indenture authorized by the provisions of this Section 14.01 may be executed by the Company and the Trustee without the consent of the Holders of any of the Securities at the time Outstanding.

Section 14.02 With Consent of Securityholders; Limitations.

(a) With the consent of the Holders (evidenced as provided in Article VIII) of a majority in aggregate principal amount of the Outstanding Securities of each series affected by such supplemental indenture voting separately, the Company 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 provisions of this Indenture or of modifying in any manner the rights of the Holders of the Securities of such series to be affected; provided, however, that no such supplemental indenture shall, without the consent of the Holder of each Outstanding Security of each such series affected thereby,

- (i) extend the Stated Maturity of the principal of, or any installment of interest on, any Security, or reduce the principal amount thereof or the interest thereon or any premium payable thereon, or extend the Stated Maturity of, or change the Currency in which the principal of and premium, if any, or interest on such Security is denominated or payable, or reduce the amount of the principal of an Original Issue Discount Security that would be due and payable upon acceleration of the Maturity thereof pursuant to Section 7.02, change the ranking of any Security or, in the case of any subordinated Security, the definition of Senior Indebtedness applicable thereto, or impair the right to institute suit for the enforcement of any payment on or after the Stated Maturity thereof (or, in the case of redemption, on or after the Redemption Date), or materially adversely affect the economic terms of any right to convert or exchange any Security as may be provided pursuant to Section 3.01; or

- (ii) reduce the percentage in principal amount of the Outstanding Securities of any series, the consent of whose Holders is required for any supplemental indenture, or the consent of whose Holders is required for any waiver of compliance with certain provisions of this Indenture or certain Defaults hereunder and their consequences provided for in this Indenture; or
- (iii) modify any of the provisions of this Section, Section 7.06 or Section 6.06, except to increase any such percentage or to provide that certain other provisions of this Indenture cannot be modified or waived without the consent of the Holder of each Outstanding Security affected thereby; provided, however, that this clause shall not be deemed to require the consent of any Holder with respect to changes in the references to “the Trustee” and concomitant changes in this Section and Section 6.06, or the deletion of this proviso, in accordance with the requirements of Sections 11.06 and 14.01(f); or
- (iv) [reserved]
- (v) modify, without the written consent of the Trustee, the rights, duties, indemnities or immunities of the Trustee.

(b) A supplemental indenture that changes or eliminates any provision of this Indenture which has expressly been included solely for the benefit of one or more particular series of Securities or which modifies the rights of the Holders of Securities of such series with respect to such covenant or other provision, shall be deemed not to affect the rights under this Indenture of the Holders of Securities of any other series.

(c) It shall not be necessary for the consent of the Securityholders under this Section 14.02 to approve the particular form of any proposed supplemental indenture, but it shall be sufficient if such consent shall approve the substance thereof.

(d) The Company may set a record date for purposes of determining the identity of the Holders of each series of Securities entitled to give a written consent or waive compliance by the Company as authorized or permitted by this Section. Such record date shall not be more than 30 days prior to the first solicitation of such consent or waiver or the date of the most recent list of Holders furnished to the Trustee prior to such solicitation pursuant to Section 312 of the Trust Indenture Act.

(e) Promptly after the execution by the Company and the Trustee of any supplemental indenture pursuant to the provisions of this Section 14.02, the Company shall mail a notice, setting forth in general terms the substance of such supplemental indenture, to the Holders of Securities at their addresses as the same shall then appear in the Register of the Company. Any failure of the Company to mail such notice, or any defect therein, shall not, however, in any way impair or affect the validity of any such supplemental indenture.

(a) Trustee Protected. Upon the request of the Company, accompanied by the Officer's Certificate and Opinion of Counsel required by Section 16.01 (provided, however, that such Officer's Certificate or Opinion of Counsel need not be provided in connection with the execution of a supplemental indenture that establishes the terms of a series of Securities pursuant to Section 2.01 hereof) and evidence satisfactory to the Trustee of consent of the Holders if the supplemental indenture is to be executed pursuant to Section 14.02, the Trustee shall join with the Company in the execution of said supplemental indenture unless said supplemental indenture affects the Trustee's own rights, duties, indemnities or immunities under this Indenture or otherwise, in which case the Trustee may in its discretion, but shall not be obligated to, enter into said supplemental indenture. The Trustee shall be fully protected in relying upon such Officer's Certificate and Opinion of Counsel.

Section 14.04 Effect of Execution of Supplemental Indenture. Upon the execution of any supplemental indenture pursuant to the provisions of this Article XIV, this Indenture shall be deemed to be modified and amended in accordance therewith and, except as herein otherwise expressly provided, the respective rights, limitations of rights, obligations, duties and immunities under this Indenture of the Trustee, the Company and the Holders of all of the Securities or of the Securities of any series affected, as the case may be, 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 14.05 Notation on or Exchange of Securities. Securities of any series authenticated and delivered after the execution of any supplemental indenture pursuant to the provisions of this Article may bear a notation in the 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 Securities so modified as to conform, in the opinion of the Trustee and the Board of Directors of the Company, to any modification of this Indenture contained in any such supplemental indenture may be prepared and executed by the Company and authenticated and delivered by the Trustee in exchange for the Securities then Outstanding in equal aggregate principal amounts, and such exchange shall be made without cost to the Holders of the Securities.

Section 14.06 Conformity with TIA. Every supplemental indenture executed pursuant to the provisions of this Article shall conform to the requirements of the Trust Indenture Act as then in effect.

SUBORDINATION OF SECURITIES

Section 15.01 Agreement to Subordinate. In the event a series of Securities is designated as subordinated pursuant to Section 3.01, and except as otherwise provided in a Company Order or in one or more indentures supplemental hereto, the Company, for itself, its successors and assigns, covenants and agrees, and each Holder of Securities of such series by his, her or its acceptance thereof, likewise covenants and agrees, that the payment of the principal of (and premium, if any) and interest, if any, on each and all of the Securities of such series is hereby expressly subordinated, to the extent and in the manner hereinafter set forth, in right of payment to the prior payment in full of all Senior Indebtedness. In the event a series of Securities is not designated as subordinated pursuant to Section 3.01(t), this Article XV shall have no effect upon the Securities.

Section 15.02 Distribution on Dissolution, Liquidation and Reorganization; Subrogation of Securities. Subject to Section 15.01, upon any distribution of assets of the Company upon any dissolution, winding up, liquidation or reorganization of the Company, whether in bankruptcy, insolvency, reorganization or receivership proceedings or upon an assignment for the benefit of creditors or any other marshalling of the assets and liabilities of the Company or otherwise (subject to the power of a court of competent jurisdiction to make other equitable provision reflecting the rights conferred in this Indenture upon the Senior Indebtedness and the holders thereof with respect to the Securities and the holders thereof by a lawful plan of reorganization under applicable bankruptcy law):

(a) the holders of all Senior Indebtedness shall be entitled to receive payment in full of the principal thereof (and premium, if any) and interest due thereon before the Holders of the Securities are entitled to receive any payment upon the principal (or premium, if any) or interest, if any, on Indebtedness evidenced by the Securities;

(b) any payment or distribution of assets of the Company of any kind or character, whether in cash, property or securities, to which the Holders of the Securities or the Trustee would be entitled except for the provisions of this Article XV shall be paid by the liquidation trustee or agent or other Person making such payment or distribution, whether a trustee in bankruptcy, a receiver or liquidating trustee or otherwise, directly to the holders of Senior Indebtedness or their representative or representatives or to the trustee or trustees under any indenture under which any instruments evidencing any of such Senior Indebtedness may have been issued, ratably according to the aggregate amounts remaining unpaid on account of the principal of (and premium, if any) and interest on the Senior Indebtedness held or represented by each, to the extent necessary to make payment in full of all Senior Indebtedness remaining unpaid, after giving effect to any concurrent payment or distribution to the holders of such Senior Indebtedness;

(c) in the event that, notwithstanding the foregoing, any payment or distribution of assets of the Company of any kind or character, whether in cash, property or securities prohibited by the foregoing, shall be received by the Trustee or the Holders of the Securities before all Senior Indebtedness is paid in full, such payment or distribution shall be paid over, upon written notice to a Responsible Officer of the Trustee, to the holder of such Senior Indebtedness or his, her or its representative or representatives or to the trustee or trustees under any indenture under which any instrument evidencing any of such Senior Indebtedness may have been issued, ratably as aforesaid, as calculated by the Company, for application to payment of all Senior Indebtedness remaining unpaid until all such Senior Indebtedness shall have been paid in full, after giving effect to any concurrent payment or distribution to the holders of such Senior Indebtedness; and

(d) Subject to the payment in full of all Senior Indebtedness, the Holders of the Securities shall be subrogated to the rights of the holders of Senior Indebtedness (to the extent that distributions otherwise payable to such holder have been applied to the payment of Senior Indebtedness) to receive payments or distributions of cash, property or securities of the Company applicable to Senior Indebtedness until the principal of (and premium, if any) and interest, if any, on the Securities shall be paid in full and no such payments or distributions to the Holders of the Securities of cash, property or securities otherwise distributable to the holders of Senior Indebtedness shall, as between the Company, its creditors other than the holders of Senior Indebtedness, and the Holders of the Securities be deemed to be a payment by the Company to or on account of the Securities. It is understood that the provisions of this Article XV are and are intended solely for the purpose of defining the relative rights of the Holders of the Securities, on the one hand, and the holders of the Senior Indebtedness, on the other hand. Nothing contained in this Article XV or elsewhere in this Indenture or in the Securities is intended to or shall impair, as between the Company, its creditors other than the holders of Senior Indebtedness, and the Holders of the Securities, the obligation of the Company, which is unconditional and absolute, to pay to the Holders of the Securities the principal of (and premium, if any) and interest, if any, on the Securities as and when the same shall become due and payable in accordance with their terms, or to affect the relative rights of the Holders of the Securities and creditors of the Company other than the holders of Senior Indebtedness, nor shall anything herein or in the Securities prevent the Trustee or the Holder of any Security from exercising all remedies otherwise permitted by applicable law upon default under this Indenture, subject to the rights, if any, under this Article XV of the holders of Senior Indebtedness in respect of cash, property or securities of the Company received upon the exercise of any such remedy. Upon any payment or distribution of assets of the Company referred to in this Article XV, the Trustee, subject to the provisions of Section 15.06, shall be entitled to conclusively rely upon a certificate of the liquidating trustee or agent or other person making any distribution to the Trustee for the purpose of ascertaining the Persons entitled to participate in such distribution, the holders of Senior Indebtedness and other indebtedness of the Company, the amount thereof or payable thereon, the amount or amounts paid or distributed thereof and all other facts pertinent thereto or to this Article XV.

Section 15.03 No Payment on Securities in Event of Default on Senior Indebtedness. Subject to Section 15.01, no payment by the Company on account of principal (or premium, if any), sinking funds or interest, if any, on the Securities shall be made at any time if: (i) a default on Senior Indebtedness exists that permits the holders of such Senior Indebtedness to accelerate its maturity and (ii) the default is the subject of judicial proceedings or the Company has received notice of such default. The Company may resume payments on the Securities when full payment of amounts then due for principal (premium, if any), sinking funds and interest on Senior Indebtedness has been made or duly provided for in money or money's worth.

In the event that, notwithstanding the foregoing, any payment shall be received by the Trustee when such payment is prohibited by the preceding paragraph of this Section 15.03, such payment shall be held in trust for the benefit of, and shall be paid over or delivered to, the holders of such Senior Indebtedness or their respective representatives, or to the trustee or trustees under any indenture pursuant to which any of such Senior Indebtedness may have been issued, as their respective interests may appear, as calculated by the Company, but only to the extent that the holders of such Senior Indebtedness (or their representative or representatives or a trustee) notify the Trustee in writing within 90 days of such payment of the amounts then due and owing on such Senior Indebtedness and only the amounts specified in such notice to the Trustee shall be paid to the holders of such Senior Indebtedness.

Section 15.04 Payments on Securities Permitted. Subject to Section 15.01, nothing contained in this Indenture or in any of the Securities shall (a) affect the obligation of the Company to make, or prevent the Company from making, at any time except as provided in Sections 15.02 and 15.03, payments of principal of (or premium, if any) or interest, if any, on the Securities or (b) prevent the application by the Trustee of any moneys or assets deposited with it hereunder to the payment of or on account of the principal of (or premium, if any) or interest, if any, on the Securities, unless a Responsible Officer of the Trustee shall have received at its Corporate Trust Office written notice of any fact prohibiting the making of such payment from the Company or from the holder of any Senior Indebtedness or from the trustee for any such holder, together with proof satisfactory to the Trustee of such holding of Senior Indebtedness or of the authority of such trustee more than two Business Days prior to the date fixed for such payment.

Section 15.05 Authorization of Securityholders to Trustee to Effect Subordination. Subject to Section 15.01, each Holder of Securities by his acceptance thereof authorizes and directs the Trustee on his, her or its behalf to take such action as may be necessary or appropriate to effectuate the subordination as provided in this Article XV and appoints the Trustee his attorney-in-fact for any and all such purposes.

Section 15.06 Notices to Trustee. The Company shall give prompt written notice to a Responsible Officer of the Trustee of any fact known to the Company that would prohibit the making of any payment of monies or assets to or by the Trustee in respect of the Securities of any series pursuant to the provisions of this Article XV. Subject to Section 15.01, notwithstanding the provisions of this Article XV or any other provisions of this Indenture, neither the Trustee nor any Paying Agent (other than the Company) shall be charged with knowledge of the existence of any Senior Indebtedness or of any fact which would prohibit the making of any payment of moneys or assets to or by the Trustee or such Paying Agent, unless and until a Responsible Officer of the Trustee or such Paying Agent shall have received (in the case of a Responsible Officer of the Trustee, at the Corporate Trust Office of the Trustee) written notice thereof from the Company or from the holder of any Senior Indebtedness or from the trustee for any such holder, together with proof satisfactory to the Trustee of such holding of Senior Indebtedness or of the authority of such trustee and, prior to the receipt of any such written notice, the Trustee shall be entitled in all respects conclusively to presume that no such facts exist; provided, however, that if at least two Business Days prior to the date upon which by the terms hereof any such moneys or assets may become payable for any purpose (including, without limitation, the payment of either the principal (or premium, if any) or interest, if any, on any Security) a Responsible Officer of the Trustee shall not have received with respect to such moneys or assets the notice provided for in this Section 15.06, then, anything herein contained to the contrary notwithstanding, the Trustee shall have full power and authority to receive such moneys or assets and to apply the same to the purpose for which they were received, and shall not be affected by any notice to the contrary which may be received by it within two Business Days prior to such date. The Trustee shall be entitled to rely on the delivery to it of a written notice by a Person representing himself to be a holder of Senior Indebtedness (or a trustee on behalf of such holder) to establish that such a notice has been given by a holder of Senior Indebtedness or a trustee on behalf of any such holder. In the event that the Trustee determines in good faith that further evidence is required with respect to the right of any Person as a holder of Senior Indebtedness to participate in any payment or distribution pursuant to this Article XV, the Trustee may request such Person to furnish evidence to the reasonable satisfaction of the Trustee as to the amount of Senior Indebtedness held by such Person, the extent to which such Person is entitled to participate in such payment or distribution and any other facts pertinent to the rights of such Person under this Article XV and, if such evidence is not furnished, the Trustee may defer any payment to such Person pending judicial determination as to the right of such Person to receive such payment.

Section 15.07 Trustee as Holder of Senior Indebtedness. Subject to Section 15.01, the Trustee in its individual capacity shall be entitled to all the rights set forth in this Article XV in respect of any Senior Indebtedness at any time held by it to the same extent as any other holder of Senior Indebtedness and nothing in this Indenture shall be construed to deprive the Trustee of any of its rights as such holder. Nothing in this Article XV shall apply to claims of, or payments to, the Trustee under or pursuant to Sections 7.05 or 11.01.

Section 15.08 Modifications of Terms of Senior Indebtedness. Subject to Section 15.01, any renewal or extension of the time of payment of any Senior Indebtedness or the exercise by the holders of Senior Indebtedness of any of their rights under any instrument creating or evidencing Senior Indebtedness, including, without limitation, the waiver of default thereunder, may be made or done all without notice to or assent from the Holders of the Securities or the Trustee. To the extent permitted by applicable law, no compromise, alteration, amendment, modification, extension, renewal or other change of, or waiver, consent or other action in respect of, any liability or obligation under or in respect of, or of any of the terms, covenants or conditions of any indenture or other instrument under which any Senior Indebtedness is outstanding or of such Senior Indebtedness, whether or not such release is in accordance with the provisions of any applicable document, shall in any way alter or affect any of the provisions of this Article XV or of the Securities relating to the subordination thereof.

Section 15.09 Reliance on Judicial Order or Certificate of Liquidating Agent. Subject to Section 15.01, upon any payment or distribution of assets of the Company referred to in this Article XV, the Trustee and the Holders of the Securities shall be entitled to conclusively rely upon any order or decree entered by any court of competent jurisdiction in which such insolvency, bankruptcy, receivership, liquidation, reorganization, dissolution, winding up or similar case or proceeding is pending, or a certificate of the trustee in bankruptcy, liquidating trustee, custodian, receiver, assignee for the benefit of creditors, agent or other person making such payment or distribution, delivered to the Trustee or to the Holders of Securities, for the purpose of ascertaining the Persons entitled to participate in such payment or distribution, the holders of Senior Indebtedness and other indebtedness of the Company, the amount thereof or payable thereon, the amount or amounts paid or distributed thereon and all other facts pertinent thereto or to this Article XV.

Section 15.10 Satisfaction and Discharge; Defeasance and Covenant Defeasance. Subject to Section 15.01, amounts and U.S. Government Obligations deposited in trust with the Trustee pursuant to and in accordance with Article XII and not, at the time of such deposit, prohibited to be deposited under Sections 15.02 or 15.03 shall not be subject to this Article XV.

Section 15.11 Trustee Not Fiduciary for Holders of Senior Indebtedness. With respect to the holders of Senior Indebtedness, the Trustee undertakes to perform or observe only such of its covenants and obligations as are specifically set forth in this Article XV, and no implied covenants or obligations with respect to the holders of Senior Indebtedness shall be read into this Indenture against the Trustee. The Trustee shall not be deemed to owe any fiduciary duty to the holders of Senior Indebtedness. The Trustee shall not be liable to any such holder if it shall pay over or distribute to or on behalf of Holders of Securities or the Company, or any other Person, moneys or assets to which any holder of Senior Indebtedness shall be entitled by virtue of this Article XV or otherwise. For the avoidance of doubt, (i) when acting under this Article, the Trustee shall have all of the rights, benefits, privileges, protections and indemnities provided to the Trustee under Article XI of this Indenture, and (ii) the Trustee shall not have any duty to take any discretionary action or exercise any discretionary powers in acting under this Article.

ARTICLE XVI

MISCELLANEOUS PROVISIONS

Section 16.01 Certificates and Opinions as to Conditions Precedent.

(a) Upon any request or application by the Company 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, 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.

(b) 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 (other than the certificates provided pursuant to Section 6.05 of this Indenture) shall include (i) a statement that the Person giving such certificate or opinion has read such covenant or condition; (ii) 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; (iii) a statement that, in the view or opinion of such Person, he or she has made such examination or investigation as is necessary to enable such Person to express an informed view or opinion as to whether or not such covenant or condition has been complied with; and (iv) a statement as to whether or not, in the view or opinion of such Person, such condition or covenant has been complied with.

(c) Any certificate, statement or opinion of an Officer of the Company may be based, insofar as it relates to legal matters, upon a certificate or opinion of, or representations by, counsel, unless such Officer knows, or in the exercise of reasonable care should know, that the certificate or opinion or representations with respect to the matters upon which his or her certificate, statement or opinion is based are erroneous. Any certificate, statement or Opinion of Counsel may be based, insofar as it relates to factual matters, upon a certificate, statement or opinion of, or representations by, an Officer or Officers of the Company stating that the information with respect to such factual matters is in the possession of the Company, unless such counsel knows, or in the exercise of reasonable care should know, that the certificate, statement or opinion or representations with respect to such matters are erroneous.

(d) Any certificate, statement or opinion of an Officer of the Company or of counsel to the Company may be based, insofar as it relates to accounting matters, upon a certificate or opinion of, or representations by, an accountant or firm of accountants, unless such officer or counsel, as the case may be, knows, or in the exercise of reasonable care should know, that the certificate or opinion or representations with respect to the accounting matters upon which his or her certificate, statement or opinion may be based are erroneous. Any certificate or opinion of any firm of independent registered public accountants filed with the Trustee shall contain a statement that such firm is independent.

(e) In any case where several matters are required to be certified by, or covered by an opinion of, any specified Person, it is not necessary that all such matters be certified by, or covered by the opinion of, only one such Person, or that they be so certified or covered by only one document, but one such Person may certify or give an opinion with respect to some matters and one or more other such Persons as to other matters, and any such Person may certify or give an opinion as to such matters in one or several documents.

(f) Where any Person is required to make, give or execute two or more applications, requests, consents, certificates, statements, opinions or other instruments under this Indenture, they may, but need not, be consolidated and form one instrument.

Section 16.02 Trust Indenture Act Controls. If and to the extent that any provision of this Indenture limits, qualifies or conflicts with the duties imposed by, or another provision included in this Indenture which is required to be included in this Indenture by any of the provisions of Sections 310 to 318, inclusive, of the Trust Indenture Act, such imposed duties or incorporated provision shall control.

Section 16.03 Notices to the Company and Trustee. Any notice or demand authorized by this Indenture to be made upon, given or furnished to, or filed with, the Company or the Trustee shall be sufficiently made, given, furnished or filed for all purposes if it shall be mailed, delivered or telefaxed to:

(a) the Company, at 9020 N Capital of Texas Hwy, Suite I-260, Austin, Texas 78759, Attention: Phelps Morris, Chief Financial Officer, and Jacob Wolf, General Counsel, emails: pmorris@ftcsolar.com and jwolf@ftcsolar.com, or at such other address or emails as may have been furnished in writing to the Trustee by the Company.

(b) the Trustee, at the Corporate Trust Office of the Trustee, Attention: FTC Solar Notes Administrator.

Any such notice, demand or other document shall be in the English language.

Section 16.04 Notices to Securityholders; Waiver. Any notice required or permitted to be given to Securityholders shall be sufficiently given (unless otherwise herein expressly provided),

(a) if to Holders, if given in writing by first class mail, postage prepaid, to such Holders at their addresses as the same shall appear on the Register of the Company; or

(b) If a series of Securities has been issued in the form of one or more Global Securities through DTC as Depositary, notice may be provided with respect to such series of Securities by delivery of such notice to DTC for posting through its "Legal Notice Service" (LENS) or a successor system thereof.

Where this Indenture provides for notice in any manner, such notice may be waived in writing by the Person entitled to receive such notice, either before or after the event, and such waiver shall be the equivalent of such notice. Waivers of notice by Holders shall be delivered to the Trustee, but such delivery shall not be a condition precedent to the validity of any action taken in reliance on such waiver. In any case where notice to Holders is given by mail; neither the failure to mail such notice nor any defect in any notice so mailed to any particular Holder shall affect the sufficiency of such notice with respect to other Holders, and any notice that is mailed in the manner herein provided shall be conclusively presumed to have been duly given. In any case where notice to Holders is given by publication, any defect in any notice so published as to any particular Holder shall not affect the sufficiency of such notice with respect to other Holders, and any notice that is published in the manner herein provided shall be conclusively presumed to have been duly given.

Section 16.05 Legal Holiday. Unless otherwise specified pursuant to Section 3.01, in any case where any Interest Payment Date, Redemption Date or Maturity of any Security of any series shall not be a Business Day at any Place of Payment for the Securities of that series, then payment of principal and premium, if any, or interest need not be made at such Place of Payment on such date, but may be made on the next succeeding Business Day at such Place of Payment with the same force and effect as if made on such Interest Payment Date, Redemption Date or Maturity and no interest shall accrue on such payment for the period from and after such Interest Payment Date, Redemption Date or Maturity, as the case may be, to such Business Day if such payment is made or duly provided for on such Business Day.

Section 16.06 Effects of Headings and Table of Contents. The Article and Section headings herein and the Table of Contents are for convenience only and shall not affect the construction hereof.

Section 16.07 Successors and Assigns. All covenants and agreements in this Indenture by the parties hereto shall bind their respective successors and assigns and inure to the benefit of their permitted successors and assigns, whether so expressed or not.

Section 16.08 Separability Clause. In case any provision in this Indenture or in the Securities shall be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

Section 16.09 Benefits of Indenture. Nothing in this Indenture expressed and nothing that may be implied from any of the provisions hereof is intended, or shall be construed, to confer upon, or to give to, any Person or corporation other than the parties hereto and their successors and the Holders of the Securities any benefit or any right, remedy or claim under or by reason of this Indenture or any covenant, condition, stipulation, promise or agreement hereof, and all covenants, conditions, stipulations, promises and agreements in this Indenture contained shall be for the sole and exclusive benefit of the parties hereto and their successors and of the Holders of the Securities.

Section 16.10 Counterparts Originals. This Indenture may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, but all such counterparts shall together constitute but one and the same instrument.

Section 16.11 Governing Law; WAIVER OF TRIAL BY JURY; Submission to Jurisdiction. This Indenture and the Securities shall be deemed to be contracts made under the law of the State of New York, and for all purposes shall be governed by and construed in accordance with the law of said State.

EACH PARTY HERETO, AND EACH HOLDER OF A SECURITY BY ACCEPTANCE THEREOF, HEREBY WAIVES, TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, ANY RIGHT IT MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY LITIGATION DIRECTLY OR INDIRECTLY ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS INDENTURE.

The Company irrevocably and unconditionally submits to the exclusive jurisdiction of any U.S. federal or New York State court located in the Borough of Manhattan, The City of New York over any suit, action or proceeding arising out of or relating to this Indenture or the Securities. The Company irrevocably and unconditionally waives, to the fullest extent permitted by applicable law, any objection to the laying of venue of any such suit, action or proceeding brought in any such court and any claim that any such suit, action or proceeding has been brought in an inconvenient forum. A final judgment in any such suit, action or proceeding brought in any such court shall be conclusive and binding upon the Company and may be enforced in any other courts to whose jurisdiction the Company is or may be subject, by suit upon judgment. The Company further agrees that nothing herein shall affect any Holder's right to effect service of process in any other manner permitted by law or bring a suit action or proceeding (including a proceeding for enforcement of a judgment) in any other court or jurisdiction in accordance with applicable law.

Section 16.12 Electronic Signatures. This Indenture and any certificate, agreement or other document to be signed in connection with this Indenture and the transactions contemplated hereby shall be valid, binding and enforceable against a party only when executed and delivered by an authorized individual on behalf of the party by means of (i) an original manual signature, (ii) a faxed, scanned or photocopied manual signature or (iii) in the case of this Indenture and any certificate, agreement or other document to be signed in connection with this Indenture and the transactions contemplated hereby, other than any Security or Global Security, any electronic signature permitted by the federal Electronic Signatures in Global and National Commerce Act, state enactments of the Uniform Electronic Transactions Act, and/or any other relevant electronic signatures law, including relevant provisions of the Uniform Commercial Code (collectively, "Signature Law"). Each electronic signature (except in the case of any Security or Global Security) or faxed, scanned or photocopied manual signature shall for all purposes have the same validity, legal effect and admissibility in evidence as an original manual signature. Each party hereto shall be entitled to conclusively rely upon, and shall have no liability with respect to, any faxed, scanned or photocopied manual signature, or other electronic signature (except in the case of any Security or Global Security), of any party and shall have no duty to investigate, confirm or otherwise verify the validity or authenticity thereof. For avoidance of doubt, original manual signatures shall be used for execution or indorsement of writings when required under the Uniform Commercial Code or other Signature Law due to the character or intended character of the writings. Notwithstanding anything herein to the contrary, the Trustee is under no obligation to agree to accept electronic signatures in any form or in any format unless expressly agreed to by the Trustee pursuant to reasonable procedures approved by the Trustee.

Section 16.13 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, strikes, work stoppages, accidents, acts of war or terrorism, civil or military disturbances, epidemics, nuclear or natural catastrophes or acts of God, interruptions, loss or malfunctions of utilities, communications or computer (software and hardware) services, any act or provision of any present or future law or regulation or governmental authority, governmental action or the unavailability of the Federal Reserve Bank wire or facsimile or other wire or communication facility; 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 circumstance.

[Signature Page Follows]

IN WITNESS WHEREOF, the parties have caused this Indenture to be duly executed as of the date first written above.

FTC Solar, Inc.,
as Issuer

By: _____
Name:
Title:

Wilmington Trust, National Association,
as Trustee

By: _____
Name:
Title:

[Letterhead of Skadden, Arps, Slate, Meagher & Flom LLP]

June 24, 2022

FTC Solar, Inc.
9020 N Capital of Texas Hwy, Suite I-260,
Austin, Texas 78759

Re: FTC Solar, Inc.
Registration Statement on Form S-3

Ladies and Gentlemen:

We have acted as special United States counsel to FTC Solar, Inc., a Delaware corporation (the "Company"), in connection with the registration statement on Form S-3 (the "Registration Statement") to be filed on the date hereof by the Company with the Securities and Exchange Commission (the "Commission") under the Securities Act of 1933 (the "Securities Act"). The Registration Statement relates to the issuance and sale by the Company from time to time, pursuant to Rule 415 of the General Rules and Regulations of the Commission promulgated under the Securities Act (the "Rules and Regulations"), of (i) shares of common stock, par value \$0.0001 per share, of the Company ("Common Stock"), (ii) shares of preferred stock, par value \$0.0001 per share, of the Company ("Preferred Stock"), which may be issued in one or more series, (iii) debt securities of the Company ("Debt Securities"), which may be issued in one or more series under an indenture (the "Indenture") proposed to be entered into by the Company and Wilmington Trust, National Association, as trustee, the form of which is filed as an exhibit to the Registration Statement, (iv) warrants to purchase shares of Common Stock, shares of Preferred Stock or Debt Securities ("Warrants"), which may be issued pursuant to one or more warrant agreements (each, a "Warrant Agreement") proposed to be entered into by the Company and one or more warrant agents to be named therein, and (v) such indeterminate number of shares of Common Stock or Preferred Stock and indeterminate amount of Debt Securities as may be issued upon conversion, exchange or exercise, as applicable, of any Preferred Stock, Debt Securities or Warrants, including such shares of Common Stock or Preferred Stock as may be issued pursuant to anti-dilution adjustments determined at the time of offering (collectively, "Indeterminate Securities"). The Registration Statement also relates to the sale from time to time of up to 35,674,463 shares of Common Stock (the "Secondary Shares") to be sold by the selling stockholders (the "Selling Stockholders"). We have been advised that the Shares were issued pursuant to (i) the Founder's Stock Purchase Agreement, dated as of January 9, 2017, by and between the Company and Ahmad Chatila and the Common Stock Purchase Agreement, dated as of September 28, 2018, by and among the Company and the purchasers listed therein, including Mr. Chatila (collectively, the "Chatila Stock Purchase Agreements"), and were subsequently transferred by Mr. Chatila to the ARC Family Trust pursuant to the purchase and sale agreement, dated as of December 31, 2020, by and among Mr. Chatila, the ARC Family Trust u/a dated December 23, 2020, Shaker Sadasivam, as trustee, and The Bryn Mawr Trust Company of Delaware, as administrative trustee (the "Chatila Purchase and Sale Agreement" and together with the Chatila Stock Purchase Agreements, the "Chatila Share Agreements"), (ii) the Common Stock Purchase Agreement, dated as of March 5, 2020, by and between the Company and South Lake One LLC and the Securities Purchase Agreement, dated as of October 19, 2020, by and between Wisteria Holdings LLC and South Lake One LLC (collectively, the "South Lake Stock Purchase Agreements" and together with the Chatila Share Agreements, the "Share Agreements") and (iii) the Company's 2017 Stock Incentive Plan, adopted on January 9, 2017, as amended from time to time (the "Plan"). The Common Stock, Preferred Stock, Debt Securities, Warrants, Indeterminate Securities and Secondary Shares offered pursuant to the Registration Statement are collectively referred to herein as the "Securities."

This opinion is being furnished in accordance with the requirements of Item 601(b)(5) of Regulation S-K under the Securities Act.

In rendering the opinions stated herein, we have examined and relied upon the following:

- (a) the Registration Statement;
 - (b) the form of Indenture filed as an exhibit to the Registration Statement;
 - (c) executed copies of the Share Agreements;
 - (d) the Plan;
 - (e) an executed copy of a certificate of Jacob Wolf, General Counsel and Secretary of the Company, dated the date hereof (the "Secretary's Certificate");
 - (f) a copy of the Company's Certificate of Incorporation, as in effect as of the date the Secondary Shares were issued, and certified pursuant to the Secretary's Certificate;
 - (g) a copy of the Company's Amended and Restated Certificate of Incorporation, as in effect on the date hereof, certified by the Secretary of State of the State of Delaware as of June 14, 2022 and certified pursuant to the Secretary's Certificate;
 - (h) a copy of the Company's Bylaws, as in effect as of the date the Shares were issued, and certified pursuant to the Secretary's Certificate;
 - (i) a copy of the Company's Amended and Restated Bylaws, as in effect on the date hereof, and certified pursuant to the Secretary's Certificate;
 - (j) copies of certain resolutions of the Board of Directors of the Company relating to the filing of the Registration Statement, adopted on June 23, 2022, certified pursuant to the Secretary's Certificate;
 - (k) copies of certain resolutions of the Board of Directors of the Company relating to the issuance of the Secondary Shares and related matters, adopted on January 9, 2017, November 6, 2018, March 2, 2020 and July 21, 2020, certified pursuant to the Secretary's Certificate; and
-

(l) copies of certain resolutions of the stockholders of the Company adopted on January 9, 2017 and December 15, 2020, certified pursuant to the Secretary's Certificate.

We have also examined originals or copies, certified or otherwise identified to our satisfaction, of such records of the Company and the Selling Stockholders and such agreements, certificates and receipts of public officials, certificates of officers or other representatives of the Company and the Selling Stockholders and others, and such other documents as we have deemed necessary or appropriate as a basis for the opinions stated below, including the facts and conclusions set forth in the Secretary's Certificate.

In our examination, we have assumed the genuineness of all signatures, including electronic signatures, the legal capacity and competency of all natural persons, the authenticity of all documents submitted to us as originals, the conformity to original documents of all documents submitted to us as facsimile, electronic, certified or photocopied copies, and the authenticity of the originals of such copies. As to any facts relevant to the opinions stated herein that we did not independently establish or verify, we have relied upon statements and representations of officers and other representatives of the Company and the Selling Stockholders and others and of public officials, including those in the Secretary's Certificate.

We do not express any opinion with respect to the laws of any jurisdiction other than (i) the laws of the State of New York, and (ii) the General Corporation Law of the State of Delaware (the "DGCL") (all of the foregoing being referred to as "Opined-on Law").

As used herein, "Transaction Documents" means the Indenture and the supplemental indentures and officer's certificates establishing the terms of the Debt Securities pursuant thereto, the Warrant Agreements and any applicable underwriting or purchase agreement.

The opinions stated in paragraphs 1 through 5 below presume that all of the following (collectively, the "general conditions") shall have occurred prior to the issuance of the Securities referred to therein: (i) the Registration Statement, as finally amended (including all necessary post-effective amendments), has become effective under the Securities Act; (ii) an appropriate prospectus supplement or term sheet with respect to such Securities has been prepared, delivered and filed in compliance with the Securities Act and the applicable Rules and Regulations; (iii) the applicable Transaction Documents shall have been duly authorized, executed and delivered by the Company and the other parties thereto, including, if such Securities are to be sold or otherwise distributed pursuant to a firm commitment underwritten offering, the underwriting agreement or purchase agreement with respect thereto; (iv) the Board of Directors of the Company, including any duly authorized committee thereof, shall have taken all necessary corporate action to approve the issuance and sale of such Securities and related matters and appropriate officers of the Company have taken all related action as directed by or under the direction of the Board of Directors of the Company; and (v) the terms of the applicable Transaction Documents and the issuance and sale of such Securities have been duly established in conformity with the certificate of incorporation of the Company so as not to violate any applicable law, the certificate of incorporation of the Company or the bylaws of the Company, or result in a default under or breach of any agreement or instrument binding upon the Company, and so as to comply with any requirement or restriction imposed by any court or governmental body having jurisdiction over the Company.

Based upon the foregoing and subject to the qualifications and assumptions stated herein, we are of the opinion that:

1. With respect to any shares of Common Stock offered by the Company, including any Indeterminate Securities constituting Common Stock (the “Offered Common Stock”), when (a) the general conditions shall have been satisfied, (b) if the Offered Common Stock is to be certificated, certificates in the form required under the DGCL representing the shares of Offered Common Stock are duly executed and countersigned and (c) the shares of Offered Common Stock are registered in the Company's share registry and delivered upon payment of the agreed-upon consideration therefor, the shares of Offered Common Stock, when issued and sold or otherwise distributed in accordance with the provisions of the applicable Transaction Document, will be duly authorized by all requisite corporate action on the part of the Company under the DGCL and validly issued, fully paid and nonassessable, provided that the consideration therefor is not less than \$0.0001 per share of Common Stock.

2. The Secondary Shares being sold by the Selling Stockholders have been duly authorized by all requisite corporate action on the part of the Company under the DGCL and have been validly issued and are fully paid and nonassessable.

3. With respect to the shares of any series of Preferred Stock offered by the Company, including any Indeterminate Securities constituting Preferred Stock of such series (the “Offered Preferred Stock”), when (a) the general conditions shall have been satisfied, (b) the Board of Directors of the Company, or a duly authorized committee thereof, has duly adopted a Certificate of Designations for the Offered Preferred Stock in accordance with the DGCL (the “Certificate”), (c) the filing of the Certificate with the Secretary of State of the State of Delaware has duly occurred, (d) if the Offered Preferred Stock is to be certificated, certificates in the form required under the DGCL representing the shares of Offered Preferred Stock are duly executed and countersigned and (e) the shares of Offered Preferred Stock are registered in the Company's share registry and delivered upon payment of the agreed-upon consideration therefor, the shares of Offered Preferred Stock, when issued and sold or otherwise distributed in accordance with the provisions of the applicable Transaction Document, will be duly authorized by all requisite corporate action on the part of the Company under the DGCL and validly issued, fully paid and nonassessable, provided that the consideration therefor is not less than \$0.0001 per share of Preferred Stock.

4. With respect to any series of Debt Securities offered by the Company, including any Indeterminate Securities constituting Debt Securities of such series (the “Offered Debt Securities”), when (a) the general conditions shall have been satisfied, (b) the Indenture has been qualified under the Trust Indenture Act of 1939; (c) the issuance, sale and terms of the Offered Debt Securities and related matters have been approved and established in conformity with the applicable Transaction Documents and (d) the certificates evidencing the Offered Debt Securities have been issued in a form that complies with the provisions of the applicable Transaction Documents and have been duly executed and authenticated in accordance with the provisions of the Indenture and any other applicable Transaction Documents and issued and sold or otherwise distributed in accordance with the provisions of the applicable Transaction Document upon payment of the agreed-upon consideration therefor, the Offered Debt Securities will constitute valid and binding obligations of the Company, enforceable against the Company in accordance with their respective terms under the laws of the State of New York.

5. With respect to any Warrants offered by the Company (the “Offered Warrants”), when (a) the general conditions shall have been satisfied, (b) the Common Stock, Preferred Stock and/or Debt Securities for which the Offered Warrants are exercisable have been duly authorized for issuance by the Company and (c) certificates evidencing the Offered Warrants have been duly executed, delivered and countersigned in accordance with the provisions of the applicable Warrant Agreement, the Offered Warrants, when issued and sold or otherwise distributed in accordance with the provisions of the applicable Transaction Document upon payment of the agreed-upon consideration therefor, will constitute valid and binding obligations of the Company, enforceable against the Company in accordance with their respective terms under the laws of the State of New York.

The opinions stated herein is subject to the following qualifications:

(a) we do not express any opinion with respect to the effect on the opinions stated herein of any bankruptcy, insolvency, reorganization, moratorium, fraudulent transfer, preference and other similar laws or governmental orders affecting creditors’ rights generally, and the opinions stated herein are limited by such laws or governmental orders and by general principles of equity (regardless of whether enforcement is sought in equity or at law);

(b) we do not express any opinion with respect to any law, rule or regulation that is applicable to any party to any of the Transaction Documents or the transactions contemplated thereby solely because such law, rule or regulation is part of a regulatory regime applicable to any such party or any of its affiliates as a result of the specific assets or business operations of such party or such affiliates;

(c) except to the extent expressly stated in the opinions contained herein, we have assumed that each of the Transaction Documents constitutes the valid and binding obligation of each party to such Transaction Document, enforceable against such party in accordance with its terms;

(d) we do not express any opinion with respect to the enforceability of any provision contained in any Transaction Document relating to any indemnification, contribution, non-reliance, exculpation, release, limitation or exclusion of remedies, waiver or other provisions having similar effect that may be contrary to public policy or violative of federal or state securities laws, rules or regulations, or to the extent any such provision purports to, or has the effect of, waiving or altering any statute of limitations;

(e) we do not express any opinion with respect to the enforceability of any provision of any Transaction Document to the extent that such section purports to bind the Company to the exclusive jurisdiction of any particular federal court or courts;

(f) we call to your attention that irrespective of the agreement of the parties to any Transaction Document, a court may decline to hear a case on grounds of forum non conveniens or other doctrine limiting the availability of such court as a forum for resolution of disputes; in addition, we call to your attention that we do not express any opinion with respect to the subject matter jurisdiction of the federal courts of the United States of America in any action arising out of or relating to any Transaction Document;

(g) we have assumed that any agent of service will have accepted appointment as agent to receive service of process and call to your attention that we do not express any opinion if and to the extent such agent shall resign such appointment. Further, we do not express any opinion with respect to the irrevocability of the designation of such agent to receive service of process;

(h) we have assumed that the choice of New York law to govern the Indenture and any supplemental indenture thereto is a valid and legal provision;

(i) we have assumed that the laws of the State of New York will be chosen to govern any Warrant Agreements and that such choice is and will be a valid and legal provision;

(j) we have assumed that the Indenture will be duly authorized, executed and delivered by the trustee in substantially the form reviewed by us;

(k) to the extent that any opinion relates to the enforceability of the choice of New York law and choice of New York forum provisions contained in any Transaction Document, the opinions stated herein are subject to the qualification that such enforceability may be subject to, in each case, (i) the exceptions and limitations in New York General Obligations Law sections 5-1401 and 5-1402 and (ii) principles of comity and constitutionality;

(l) we have assumed that the Share Agreements have not been amended, restated, supplemented or otherwise modified, that the Share Agreements have been duly authorized by all requisite corporate action of the Company, as applicable, and that the Share Agreements, as applicable, constitute valid and binding obligations of the Company, enforceable against the Company in accordance with their respective terms;

(m) we have assumed that each award agreement pursuant to which rights to acquire Secondary Shares were granted pursuant to the Plan, are consistent with the Plan and have been duly authorized, executed and delivered by the parties thereto;

(n) we have assumed that the issuance of the Secondary Shares did not violate or conflict with any agreement or instrument binding on the Company (except that we do not make this assumption with respect to the organizational documents listed in clauses (f) through (i) above or those agreements or instruments expressed to be governed by the laws of the State of New York which are listed in Part II of the Registration Statement or the Company's Annual Report on Form 10-K for the year ended December 31, 2021); and

(o) with respect to our opinion set forth in paragraph 2 above we have also assumed that: (i) an appropriate account statement evidencing the Secondary Shares credited to a recipient's account maintained with the Company's transfer agent has been issued by the Company's transfer agent, (ii) the issuance of the Secondary Shares has been properly recorded in the books and records of the Company, and (iii) the Company received the consideration for the Secondary Shares set forth in the Plan, the applicable Share Agreement and the applicable resolutions of the Board of Directors of the Company.

In addition, in rendering the foregoing opinions we have assumed that:

(a) neither the execution and delivery by the Company of the Transaction Documents nor the performance by the Company of its obligations thereunder, including the issuance and sale of the applicable Securities: (i) constitutes or will constitute a violation of, or a default under, any lease, indenture, agreement or other instrument to which the Company or its property is subject, (ii) contravenes or will contravene any order or decree of any governmental authority to which the Company or its property is subject, or (iii) violates or will violate any law, rule or regulation to which the Company or its property is subject (except that we do not make the assumption set forth in this clause (iii) with respect to the Opined-on Law); and

(b) neither the execution and delivery by the Company of the Transaction Documents nor the performance by the Company of its obligations thereunder, including the issuance and sale of the applicable Securities, requires or will require the consent, approval, licensing or authorization of, or any filing, recording or registration with, any governmental authority under any law, rule or regulation of any jurisdiction.

We hereby consent to the reference to our firm under the heading “Legal Matters” in the prospectus forming part of the Registration Statement. We also hereby consent to the filing of this opinion with the Commission as an exhibit to the Registration Statement. In giving this consent, we do not thereby admit that we are within the category of persons whose consent is required under Section 7 of the Securities Act or the Rules and Regulations. This opinion is expressed as of the date hereof unless otherwise expressly stated, and we disclaim any undertaking to advise you of any subsequent changes in the facts stated or assumed herein or of any subsequent changes in applicable laws.

Very truly yours,

/s/ Skadden, Arps, Slate, Meagher & Flom LLP

ALN

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in this Registration Statement on Form S-3 of FTC Solar, Inc. of our report dated March 21, 2022, except with respect to the matters that raise substantial doubt about the Company's ability to continue as a going concern discussed in Note 3, as to which the date is June 13, 2022, relating to the financial statements, which appears in FTC Solar, Inc.'s Current Report on Form 8-K dated June 13, 2022. We also consent to the reference to us under the heading "Experts" in such Registration Statement.

/s/ PricewaterhouseCoopers LLP
Austin, Texas
June 24, 2022

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

FORM T-1

Check if an Application to Determine Eligibility of a Trustee Pursuant to Section 305(b)(2)

WILMINGTON TRUST, NATIONAL ASSOCIATION

(Exact name of trustee as specified in its charter)

16-1486454

(I.R.S. employer identification no.)

**1100 North Market Street
Wilmington, DE 19890-0001**

(Address of principal executive offices)

**Kyle Barry
Senior Vice President
Wilmington Trust Company
285 Delaware Ave.
Buffalo, NY 14202
(716) 839-6909**

(Name, address and telephone number of agent for service)

FTC SOLAR, INC.

(Exact name of obligor as specified in its charter)

Delaware

(State or other jurisdiction of incorporation or organization)

81-4816270

(I.R.S. Employer Identification No.)

**9020 N Capital of Texas Hwy, Suite I-260,
Austin, Texas 78759**

(Address of principal executive offices, including zip code)

Debt Securities

(Title of the indenture securities)

ITEM 1. GENERAL INFORMATION.

Furnish the following information as to the trustee:

- (a) Name and address of each examining or supervising authority to which it is subject.

Comptroller of Currency, Washington, D.C.
Federal Deposit Insurance Corporation, Washington, D.C.

- (b) Whether it is authorized to exercise corporate trust powers.

The trustee is authorized to exercise corporate trust powers.

ITEM 2. AFFILIATIONS WITH THE OBLIGOR.

If the obligor is an affiliate of the trustee, describe each affiliation:

Based upon an examination of the books and records of the trustee and information available to the trustee, the obligor is not an affiliate of the trustee.

ITEM 3 – 15. Not Applicable.

ITEM 16. LIST OF EXHIBITS.

Listed below are all exhibits filed as part of this Statement of Eligibility and Qualification.

1. A copy of the Charter for Wilmington Trust, National Association.
 2. The authority of Wilmington Trust, National Association to commence business was granted under the Charter for Wilmington Trust, National Association, incorporated herein by reference to Exhibit 1 above.
 3. The authorization to exercise corporate trust powers was granted under the Charter for Wilmington Trust, National Association, incorporated herein by reference to Exhibit 1 above.
 4. A copy of the existing By-Laws of Trustee, as now in effect, incorporated herein by reference to Exhibit 4 of this Form T-1.
 5. Not applicable.
 6. The consent of Wilmington Trust, National Association as required by Section 321(b) of the Trust Indenture Act of 1939, attached hereto as Exhibit 6 of this Form T-1.
 7. Current Report of the Condition of Wilmington Trust, National Association, published pursuant to law or the requirements of its supervising or examining authority, attached hereto as Exhibit 7 of this Form T-1.
 8. Not applicable.
 9. Not applicable.
-

SIGNATURE

Pursuant to the requirements of the Trust Indenture Act of 1939, as amended, the trustee, Wilmington Trust, National Association, a national banking association organized and existing under the laws of the United States of America, has duly caused this Statement of Eligibility to be signed on its behalf by the undersigned, thereunto duly authorized, all in the City of New York and State of New York on the 24th day of June, 2022.

WILMINGTON TRUST, NATIONAL ASSOCIATION

By: /s/ Christopher Spinelli

Name: Christopher Spinelli

Title: Vice President

EXHIBIT 1

CHARTER OF WILMINGTON TRUST, NATIONAL ASSOCIATION

**ARTICLES OF ASSOCIATION
OF
WILMINGTON TRUST, NATIONAL ASSOCIATION**

For the purpose of organizing an association to perform any lawful activities of national banks, the undersigned do enter into the following articles of association:

FIRST. The title of this association shall be Wilmington Trust, National Association.

SECOND. The main office of the association shall be in the City of Wilmington, County of New Castle, State of Delaware. The general business of the association shall be conducted at its main office and its branches.

THIRD. The board of directors of this association shall consist of not less than five nor more than twenty-five persons, unless the OCC has exempted the bank from the 25-member limit. The exact number is to be fixed and determined from time to time by resolution of a majority of the full board of directors or by resolution of a majority of the shareholders at any annual or special meeting thereof. Each director shall own common or preferred stock of the association or of a holding company owning the association, with an aggregate par, fair market or equity value \$1,000. Determination of these values may be based as of either (i) the date of purchase or (ii) the date the person became a director, whichever value is greater. Any combination of common or preferred stock of the association or holding company may be used.

Any vacancy in the board of directors may be filled by action of a majority of the remaining directors between meetings of shareholders. The board of directors may not increase the number of directors between meetings of shareholders to a number which:

- 1) exceeds by more than two the number of directors last elected by shareholders where the number was 15 or less; or
- 2) exceeds by more than four the number of directors last elected by shareholders where the number was 16 or more, but in no event shall the number of directors exceed 25, unless the OCC has exempted the bank from the 25-member limit.

Directors shall be elected for terms of one year and until their successors are elected and qualified. Terms of directors, including directors selected to fill vacancies, shall expire at the next regular meeting of shareholders at which directors are elected, unless the directors resign or are removed from office. Despite the expiration of a director's term, the director shall continue to serve until his or her successor is elected and qualifies or until there is a decrease in the number of directors and his or her position is eliminated.

Honorary or advisory members of the board of directors, without voting power or power of final decision in matters concerning the business of the association, may be appointed by resolution of a majority of the full board of directors, or by resolution of shareholders at any annual or special meeting. Honorary or advisory directors shall not be counted to determine the number of directors of the association or the presence of a quorum in connection with any board action, and shall not be required to own qualifying shares.

FOURTH. There shall be an annual meeting of the shareholders to elect directors and transact whatever other business may be brought before the meeting. It shall be held at the main office or any other convenient place the board of directors may designate, on the day of each year specified therefor in the bylaws, or, if that day falls on a legal holiday in the state in which the association is located, on the next following banking day. If no election is held on the day fixed, or in the event of a legal holiday on the following banking day, an election may be held on any subsequent day within 60 days of the day fixed, to be designated by the board of directors, or, if the directors fail to fix the day, by shareholders representing two-thirds of the shares issued and outstanding. In all cases at least 10 days advance notice of the time, place and purpose of a shareholders' meeting shall be given to the shareholders by first class mail, unless the OCC determines that an emergency circumstance exists. The sole shareholder of the bank is permitted to waive notice of the shareholders' meeting.

In all elections of directors, the number of votes each common shareholder may cast will be determined by multiplying the number of shares such shareholder owns by the number of directors to be elected. Those votes may be cumulated and cast for a single candidate or may be distributed among two or more candidates in the manner selected by the shareholder. If, after the first ballot, subsequent ballots are necessary to elect directors, a shareholder may not vote shares that he or she has already fully cumulated and voted in favor of a successful candidate. On all other questions, each common shareholder shall be entitled to one vote for each share of stock held by him or her.

Nominations for election to the board of directors may be made by the board of directors or by any stockholder of any outstanding class of capital stock of the association entitled to vote for election of directors. Nominations other than those made by or on behalf of the existing management shall be made in writing and be delivered or mailed to the president of the association not less than 14 days nor more than 50 days prior to any meeting of shareholders called for the election of directors; provided, however, that if less than 21 days notice of the meeting is given to shareholders, such nominations shall be mailed or delivered to the president of the association not later than the close of business on the seventh day following the day on which the notice of meeting was mailed. Such notification shall contain the following information to the extent known to the notifying shareholder:

- 1) The name and address of each proposed nominee.
- 2) The principal occupation of each proposed nominee.
- 3) The total number of shares of capital stock of the association that will be voted for each proposed nominee.
- 4) The name and residence address of the notifying shareholder.
- 5) The number of shares of capital stock of the association owned by the notifying shareholder.

Nominations not made in accordance herewith may, in his/her discretion, be disregarded by the chairperson of the meeting, and the vote tellers may disregard all votes cast for each such nominee. No bylaw may unreasonably restrict the nomination of directors by shareholders.

A director may resign at any time by delivering written notice to the board of directors, its chairperson, or to the association, which resignation shall be effective when the notice is delivered unless the notice specifies a later effective date.

A director may be removed by shareholders at a meeting called to remove the director, when notice of the meeting stating that the purpose or one of the purposes is to remove the director is provided, if there is a failure to fulfill one of the affirmative requirements for qualification, or for cause; provided, however, that a director may not be removed if the number of votes sufficient to elect the director under cumulative voting is voted against the director's removal.

FIFTH. The authorized amount of capital stock of this association shall be ten thousand shares of common stock of the par value of one hundred dollars (\$100) each; but said capital stock may be increased or decreased from time to time, according to the provisions of the laws of the United States.

No holder of shares of the capital stock of any class of the association shall have any preemptive or preferential right of subscription to any shares of any class of stock of the association, whether now or hereafter authorized, or to any obligations convertible into stock of the association, issued, or sold, nor any right of subscription to any thereof other than such, if any, as the board of directors, in its discretion, may from time to time determine and at such price as the board of directors may from time to time fix. Preemptive rights also must be approved by a vote of holders of two-thirds of the bank's outstanding voting shares. Unless otherwise specified in these articles of association or required by law, (1) all matters requiring shareholder action, including amendments to the articles of association, must be approved by shareholders owning a majority voting interest in the outstanding voting stock, and (2) each shareholder shall be entitled to one vote per share.

Unless otherwise specified in these articles of association or required by law, all shares of voting stock shall be voted together as a class, on any matters requiring shareholder approval. If a proposed amendment would affect two or more classes or series in the same or a substantially similar way, all the classes or series so affected must vote together as a single voting group on the proposed amendment.

Shares of one class or series may be issued as a dividend for shares of the same class or series on a pro rata basis and without consideration. Shares of one class or series may be issued as share dividends for a different class or series of stock if approved by a majority of the votes entitled to be cast by the class or series to be issued, unless there are no outstanding shares of the class or series to be issued. Unless otherwise provided by the board of directors, the record date for determining shareholders entitled to a share dividend shall be the date authorized by the board of directors for the share dividend.

Unless otherwise provided in the bylaws, the record date for determining shareholders entitled to notice of and to vote at any meeting is the close of business on the day before the first notice is mailed or otherwise sent to the shareholders, provided that in no event may a record date be more than 70 days before the meeting.

If a shareholder is entitled to fractional shares pursuant to a stock dividend, consolidation or merger, reverse stock split or otherwise, the association may: (a) issue fractional shares; (b) in lieu of the issuance of fractional shares, issue script or warrants entitling the holder to receive a full share upon surrendering enough script or warrants to equal a full share; (c) if there is an established and active market in the association's stock, make reasonable arrangements to provide the shareholder with an opportunity to realize a fair price through sale of the fraction, or purchase of the additional fraction required for a full share; (d) remit the cash equivalent of the fraction to the shareholder; or (e) sell full shares representing all the fractions at public auction or to the highest bidder after having solicited and received sealed bids from at least three licensed stock brokers; and distribute the proceeds pro rata to shareholders who otherwise would be entitled to the fractional shares. The holder of a fractional share is entitled to exercise the rights for shareholder, including the right to vote, to receive dividends, and to participate in the assets of the association upon liquidation, in proportion to the fractional interest. The holder of script or warrants is not entitled to any of these rights unless the script or warrants explicitly provide for such rights. The script or warrants may be subject to such additional conditions as: (1) that the script or warrants will become void if not exchanged for full shares before a specified date; and (2) that the shares for which the script or warrants are exchangeable may be sold at the option of the association and the proceeds paid to scripsholders.

The association, at any time and from time to time, may authorize and issue debt obligations, whether or not subordinated, without the approval of the shareholders. Obligations classified as debt, whether or not subordinated, which may be issued by the association without the approval of shareholders, do not carry voting rights on any issue, including an increase or decrease in the aggregate number of the securities, or the exchange or reclassification of all or part of securities into securities of another class or series.

SIXTH. The board of directors shall appoint one of its members president of this association, and one of its members chairperson of the board and shall have the power to appoint one or more vice presidents, a secretary who shall keep minutes of the directors' and shareholders' meetings and be responsible for authenticating the records of the association, and such other officers and employees as may be required to transact the business of this association.

A duly appointed officer may appoint one or more officers or assistant officers if authorized by the board of directors in accordance with the bylaws.

The board of directors shall have the power to:

- 1) Define the duties of the officers, employees, and agents of the association.
- 2) Delegate the performance of its duties, but not the responsibility for its duties, to the officers, employees, and agents of the association.
- 3) Fix the compensation and enter into employment contracts with its officers and employees upon reasonable terms and conditions consistent with applicable law.
- 4) Dismiss officers and employees.
- 5) Require bonds from officers and employees and to fix the penalty thereof.
- 6) Ratify written policies authorized by the association's management or committees of the board.
- 7) Regulate the manner in which any increase or decrease of the capital of the association shall be made, provided that nothing herein shall restrict the power of shareholders to increase or decrease the capital of the association in accordance with law, and nothing shall raise or lower from two-thirds the percentage required for shareholder approval to increase or reduce the capital.
- 8) Manage and administer the business and affairs of the association.
- 9) Adopt initial bylaws, not inconsistent with law or the articles of association, for managing the business and regulating the affairs of the association.
- 10) Amend or repeal bylaws, except to the extent that the articles of association reserve this power in whole or in part to shareholders.
- 11) Make contracts.
- 12) Generally perform all acts that are legal for a board of directors to perform.

SEVENTH. The board of directors shall have the power to change the location of the main office to any other place within the limits of Wilmington, Delaware, without the approval of the shareholders, or with a vote of shareholders owning two-thirds of the stock of such association for a relocation outside such limits and upon receipt of a certificate of approval from the Comptroller of the Currency, to any other location within or outside the limits of Wilmington Delaware, but not more than 30 miles beyond such limits. The board of directors shall have the power to establish or change the location of any branch or branches of the association to any other location permitted under applicable law, without approval of shareholders, subject to approval by the Comptroller of the Currency.

EIGHTH. The corporate existence of this association shall continue until termination according to the laws of the United States.

NINTH. The board of directors of this association, or any one or more shareholders owning, in the aggregate, not less than 50 percent of the stock of this association, may call a special meeting of shareholders at any time. Unless otherwise provided by the bylaws or the laws of the United States, a notice of the time, place, and purpose of every annual and special meeting of the shareholders shall be given at least 10 days prior to the meeting by first-class mail, unless the OCC determines that an emergency circumstance exists. If the association is a wholly-owned subsidiary, the sole shareholder may waive notice of the shareholders' meeting. Unless otherwise provided by the bylaws or these articles, any action requiring approval of shareholders must be effected at a duly called annual or special meeting.

TENTH. For purposes of this Article Tenth, the term "institution-affiliated party" shall mean any institution-affiliated party of the association as such term is defined in 12 U.S.C. 1813(u).

Any institution-affiliated party (or his or her heirs, executors or administrators) may be indemnified or reimbursed by the association for reasonable expenses actually incurred in connection with any threatened, pending or completed actions or proceedings and appeals therein, whether civil, criminal, governmental, administrative or investigative, in accordance with and to the fullest extent permitted by law, as such law now or hereafter exists; provided, however, that when an administrative proceeding or action instituted by a federal banking agency results in a final order or settlement pursuant to which such person: (i) is assessed a civil money penalty, (ii) is removed from office or prohibited from participating in the conduct of the affairs of the association, or (iii) is required to cease and desist from or to take any affirmative action described in 12 U.S.C. 1818(b) with respect to the association, then the association shall require the repayment of all legal fees and expenses advanced pursuant to the next succeeding paragraph and may not indemnify such institution-affiliated parties (or their heirs, executors or administrators) for expenses, including expenses for legal fees, penalties or other payments incurred. The association shall provide indemnification in connection with an action or proceeding (or part thereof) initiated by an institution-affiliated party (or by his or her heirs, executors or administrators) only if such action or proceeding (or part thereof) was authorized by the board of directors.

Expenses incurred by an institution-affiliated party (or by his or her heirs, executors or administrators) in connection with any action or proceeding under 12 U.S.C. 164 or 1818 may be paid by the association in advance of the final disposition of such action or proceeding upon (a) a determination by the board of directors acting by a quorum consisting of directors who are not parties to such action or proceeding that the institution-affiliated party (or his or her heirs, executors or administrators) has a reasonable basis for prevailing on the merits, (b) a determination that the indemnified individual (or his or her heirs, executors or administrators) will have the financial capacity to reimburse the bank in the event he or she does not prevail, (c) a determination that the payment of expenses and fees by the association will not adversely affect the safety and soundness of the association, and (d) receipt of an undertaking by or on behalf of such institution-affiliated party (or by his or her heirs, executors or administrators) to repay such advancement in the event of a final order or settlement pursuant to which such person: (i) is assessed a civil money penalty, (ii) is removed from office or prohibited from participating in the conduct of the affairs of the association, or (iii) is required to cease and desist from or to take any affirmative action described in 12 U.S.C. 1818(b) with respect to the association. In all other instances, expenses incurred by an institution-affiliated party (or by his or her heirs, executors or administrators) in connection with any action or proceeding as to which indemnification may be given under these articles of association may be paid by the association in advance of the final disposition of such action or proceeding upon (a) receipt of an undertaking by or on behalf of such institution-affiliated party (or by or on behalf of his or her heirs, executors or administrators) to repay such advancement in the event that such institution-affiliated party (or his or her heirs, executors or administrators) is ultimately found not to be entitled to indemnification as authorized by these articles of association and (b) approval by the board of directors acting by a quorum consisting of directors who are not parties to such action or proceeding or, if such a quorum is not obtainable, then approval by stockholders. To the extent permitted by law, the board of directors or, if applicable, the stockholders, shall not be required to find that the institution-affiliated party has met the applicable standard of conduct provided by law for indemnification in connection with such action or proceeding.

In the event that a majority of the members of the board of directors are named as respondents in an administrative proceeding or civil action and request indemnification, the remaining members of the board may authorize independent legal counsel to review the indemnification request and provide the remaining members of the board with a written opinion of counsel as to whether the conditions delineated in the first four paragraphs of this Article Tenth have been met. If independent legal counsel opines that said conditions have been met, the remaining members of the board of directors may rely on such opinion in authorizing the requested indemnification.

In the event that all of the members of the board of directors are named as respondents in an administrative proceeding or civil action and request indemnification, the board shall authorize independent legal counsel to review the indemnification request and provide the board with a written opinion of counsel as to whether the conditions delineated in the first four paragraphs of this Article Tenth have been met. If legal counsel opines that said conditions have been met, the board of directors may rely on such opinion in authorizing the requested indemnification.

To the extent permitted under applicable law, the rights of indemnification and to the advancement of expenses provided in these articles of association (a) shall be available with respect to events occurring prior to the adoption of these articles of association, (b) shall continue to exist after any restrictive amendment of these articles of association with respect to events occurring prior to such amendment, (c) may be interpreted on the basis of applicable law in effect at the time of the occurrence of the event or events giving rise to the action or proceeding, or on the basis of applicable law in effect at the time such rights are claimed, and (d) are in the nature of contract rights which may be enforced in any court of competent jurisdiction as if the association and the institution-affiliated party (or his or her heirs, executors or administrators) for whom such rights are sought were parties to a separate written agreement.

The rights of indemnification and to the advancement of expenses provided in these articles of association shall not, to the extent permitted under applicable law, be deemed exclusive of any other rights to which any such institution affiliated party (or his or her heirs, executors or administrators) may now or hereafter be otherwise entitled whether contained in these articles of association, the bylaws, a resolution of stockholders, a resolution of the board of directors, or an agreement providing such indemnification, the creation of such other rights being hereby expressly authorized. Without limiting the generality of the foregoing, the rights of indemnification and to the advancement of expenses provided in these articles of association shall not be deemed exclusive of any rights, pursuant to statute or otherwise, of any such institution-affiliated party (or of his or her heirs, executors or administrators) in any such action or proceeding to have assessed or allowed in his or her favor, against the association or otherwise, his or her costs and expenses incurred therein or in connection therewith or any part thereof.

If this Article Tenth or any part hereof shall be held unenforceable in any respect by a court of competent jurisdiction, it shall be deemed modified to the minimum extent necessary to make it enforceable, and the remainder of this Article Tenth shall remain fully enforceable.

The association may, upon affirmative vote of a majority of its board of directors, purchase insurance to indemnify its institution-affiliated parties to the extent that such indemnification is allowed in these articles of association; provided, however, that no such insurance shall include coverage to pay or reimburse any institution-affiliated party for the cost of any judgment or civil money penalty assessed against such person in an administrative proceeding or civil action commenced by any federal banking agency. Such insurance may, but need not, be for the benefit of all institution-affiliated parties.

ELEVENTH. These articles of association may be amended at any regular or special meeting of the shareholders by the affirmative vote of the holders of a majority of the stock of this association, unless the vote of the holders of a greater amount of stock is required by law, and in that case by the vote of the holders of such greater amount. The association's board of directors may propose one or more amendments to the articles of association for submission to the shareholders.

EXHIBIT 4

BY-LAWS OF WILMINGTON TRUST, NATIONAL ASSOCIATION

**WILMINGTON TRUST, NATIONAL ASSOCIATION
AMENDED AND RESTATED BYLAWS**

(Effective as of March 28, 2022)

AMENDED AND RESTATED BYLAWS

OF

WILMINGTON TRUST, NATIONAL ASSOCIATION

ARTICLE I

Meetings of Shareholders

Section 1. Annual Meeting. The annual meeting of the shareholders to elect directors and transact whatever other business may properly come before the meeting shall be held at the main office of the association, Rodney Square North, 1100 Market Street, City of Wilmington, State of Delaware, at 1:00 o'clock p.m. on the first Tuesday in March of each year, or at such other place and time as the board of directors may designate, or if that date falls on a legal holiday in Delaware, on the next following banking day. Notice of the meeting shall be mailed by first class mail, postage prepaid, at least 10 days and no more than 60 days prior to the date thereof, addressed to each shareholder at his/her address appearing on the books of the association. If, for any cause, an election of directors is not made on that date, or in the event of a legal holiday, on the next following banking day, an election may be held on any subsequent day within 60 days of the date fixed, to be designated by the board of directors, or, if the directors fail to fix the date, by shareholders representing two-thirds of the shares. In these circumstances, at least 10 days' notice must be given by first class mail to shareholders.

Section 2. Special Meetings. Except as otherwise specifically provided by statute, special meetings of the shareholders may be called for any purpose at any time by the board of directors or by any one or more shareholders owning, in the aggregate, not less than fifty percent of the stock of the association. Every such special meeting, unless otherwise provided by law, shall be called by mailing, postage prepaid, not less than 10 days nor more than 60 days prior to the date fixed for the meeting, to each shareholder at the address appearing on the books of the association a notice stating the purpose of the meeting.

The board of directors may fix a record date for determining shareholders entitled to notice and to vote at any meeting, in reasonable proximity to the date of giving notice to the shareholders of such meeting. The record date for determining shareholders entitled to demand a special meeting is the date the first shareholder signs a demand for the meeting describing the purpose or purposes for which it is to be held.

A special meeting may be called by shareholders or the board of directors to amend the articles of association or bylaws, whether or not such bylaws may be amended by the board of directors in the absence of shareholder approval.

If an annual or special shareholders' meeting is adjourned to a different date, time, or place, notice need not be given of the new date, time or place, if the new date, time or place is announced at the meeting before adjournment, unless any additional items of business are to be considered, or the association becomes aware of an intervening event materially affecting any matter to be voted on more than 10 days prior to the date to which the meeting is adjourned. If a new record date for the adjourned meeting is fixed, however, notice of the adjourned meeting must be given to persons who are shareholders as of the new record date. If, however, the meeting to elect the directors is adjourned before the election takes place, at least ten days' notice of the new election must be given to the shareholders by first-class mail.

Section 3. Nominations of Directors. Nominations for election to the board of directors may be made by the board of directors or by any stockholder of any outstanding class of capital stock of the association entitled to vote for the election of directors. Nominations, other than those made by or on behalf of the existing management of the association, shall be made in writing and shall be delivered or mailed to the president of the association and the Comptroller of the Currency, Washington, D.C., not less than 14 days nor more than 50 days prior to any meeting of shareholders called for the election of directors; *provided, however*, that if less than 21 days' notice of the meeting is given to shareholders, such nomination shall be mailed or delivered to the president of the association not later than the close of business on the seventh day following the day on which the notice of meeting was mailed. Such notification shall contain the following information to the extent known to the notifying shareholder:

- (1) The name and address of each proposed nominee;
- (2) The principal occupation of each proposed nominee;
- (3) The total number of shares of capital stock of the association that will be voted for each proposed nominee;
- (4) The name and residence of the notifying shareholder; and
- (5) The number of shares of capital stock of the association owned by the notifying shareholder.

Nominations not made in accordance herewith may, in his/her discretion, be disregarded by the chairperson of the meeting, and upon his/her instructions, the vote tellers may disregard all votes cast for each such nominee.

Section 4. Proxies. Shareholders may vote at any meeting of the shareholders by proxies duly authorized in writing, but no officer or employee of this association shall act as proxy. Proxies shall be valid only for one meeting, to be specified therein, and any adjournments of such meeting. Proxies shall be dated and filed with the records of the meeting. Proxies with facsimile signatures may be used and unexecuted proxies may be counted upon receipt of a written confirmation from the shareholder. Proxies meeting the above requirements submitted at any time during a meeting shall be accepted.

Section 5. Quorum. A majority of the outstanding capital stock, represented in person or by proxy, shall constitute a quorum at any meeting of shareholders, unless otherwise provided by law, or by the shareholders or directors pursuant to Article IX, Section 2, but less than a quorum may adjourn any meeting, from time to time, and the meeting may be held, as adjourned, without further notice. A majority of the votes cast shall decide every question or matter submitted to the shareholders at any meeting, unless otherwise provided by law or by the articles of association, or by the shareholders or directors pursuant to Article IX, Section 2. If a meeting for the election of directors is not held on the fixed date, at least 10 days' notice must be given by first-class mail to the shareholders.

ARTICLE II
Directors

Section 1. Board of Directors. The board of directors shall have the power to manage and administer the business and affairs of the association. Except as expressly limited by law, all corporate powers of the association shall be vested in and may be exercised by the board of directors.

Section 2. Number. The board of directors shall consist of not less than five nor more than twenty-five members, unless the OCC has exempted the bank from the 25-member limit. The exact number within such minimum and maximum limits is to be fixed and determined from time to time by resolution of a majority of the full board of directors or by resolution of a majority of the shareholders at any meeting thereof.

Section 3. Organization Meeting. The secretary or treasurer, upon receiving the certificate of the judges of the result of any election, shall notify the directors-elect of their election and of the time at which they are required to meet at the main office of the association, or at such other place in the cities of Wilmington, Delaware or Buffalo, New York, to organize the new board of directors and elect and appoint officers of the association for the succeeding year. Such meeting shall be held on the day of the election or as soon thereafter as practicable, and, in any event, within 30 days thereof. If, at the time fixed for such meeting, there shall not be a quorum, the directors present may adjourn the meeting, from time to time, until a quorum is obtained.

Section 4. Regular Meetings. The Board of Directors may, at any time and from time to time, by resolution designate the place, date and hour for the holding of a regular meeting, but in the absence of any such designation, regular meetings of the board of directors shall be held, without notice, on the first Tuesday of each March, June and September, and on the second Tuesday of each December at the main office or other such place as the board of directors may designate. When any regular meeting of the board of directors falls upon a holiday, the meeting shall be held on the next banking business day unless the board of directors shall designate another day.

Section 5. Special Meetings. Special meetings of the board of directors may be called by the Chairman of the Board of the association, or at the request of two or more directors. Each member of the board of directors shall be given notice by telegram, first class mail, or in person stating the time and place of each special meeting.

Section 6. Quorum. A majority of the entire board then in office shall constitute a quorum at any meeting, except when otherwise provided by law or these bylaws, but a lesser number may adjourn any meeting, from time to time, and the meeting may be held, as adjourned, without further notice. If the number of directors present at the meeting is reduced below the number that would constitute a quorum, no business may be transacted, except selecting directors to fill vacancies in conformance with Article II, Section 7. If a quorum is present, the board of directors may take action through the vote of a majority of the directors who are in attendance.

Section 7. Meetings by Conference Telephone. Any one or more members of the board of directors or any committee thereof may participate in a meeting of such board or committees by means of a conference telephone or similar communications equipment allowing all persons participating in the meeting to hear each other at the same time. Participation in a meeting by such means shall constitute presence in person at such meeting.

Section 8. Procedures. The order of business and all other matters of procedure at every meeting of the board of directors may be determined by the person presiding at the meeting.

Section 9. Removal of Directors. Any director may be removed for cause, at any meeting of stockholders notice of which shall have referred to the proposed action, by vote of the stockholders. Any director may be removed without cause, at any meeting of stockholders notice of which shall have referred to the proposed action, by the vote of the holders of a majority of the shares of the Corporation entitled to vote. Any director may be removed for cause, at any meeting of the directors notice of which shall have referred to the proposed action, by vote of a majority of the entire Board of Directors.

Section 10. Vacancies. When any vacancy occurs among the directors, a majority of the remaining members of the board of directors, according to the laws of the United States, may appoint a director to fill such vacancy at any regular meeting of the board of directors, or at a special meeting called for that purpose at which a quorum is present, or if the directors remaining in office constitute fewer than a quorum of the board of directors, by the affirmative vote of a majority of all the directors remaining in office, or by shareholders at a special meeting called for that purpose in conformance with Section 2 of Article I. At any such shareholder meeting, each shareholder entitled to vote shall have the right to multiply the number of votes he or she is entitled to cast by the number of vacancies being filled and cast the product for a single candidate or distribute the product among two or more candidates. A vacancy that will occur at a specific later date (by reason of a resignation effective at a later date) may be filled before the vacancy occurs but the new director may not take office until the vacancy occurs.

ARTICLE III
Committees of the Board

The board of directors has power over and is solely responsible for the management, supervision, and administration of the association. The board of directors may delegate its power, but none of its responsibilities, to such persons or committees as the board may determine.

The board of directors must formally ratify written policies authorized by committees of the board of directors before such policies become effective. Each committee must have one or more member(s), and who may be an officer of the association or an officer or director of any affiliate of the association, who serve at the pleasure of the board of directors. Provisions of the articles of association and these bylaws governing place of meetings, notice of meeting, quorum and voting requirements of the board of directors, apply to committees and their members as well. The creation of a committee and appointment of members to it must be approved by the board of directors.

Section 1. Loan Committee. There shall be a loan committee composed of not less than 2 directors, appointed by the board of directors annually or more often. The loan committee, on behalf of the bank, shall have power to discount and purchase bills, notes and other evidences of debt, to buy and sell bills of exchange, to examine and approve loans and discounts, to exercise authority regarding loans and discounts, and to exercise, when the board of directors is not in session, all other powers of the board of directors that may lawfully be delegated. The loan committee shall keep minutes of its meetings, and such minutes shall be submitted at the next regular meeting of the board of directors at which a quorum is present, and any action taken by the board of directors with respect thereto shall be entered in the minutes of the board of directors.

Section 2. Investment Committee. There shall be an investment committee composed of not less than 2 directors, appointed by the board of directors annually or more often. The investment committee, on behalf of the bank, shall have the power to ensure adherence to the investment policy, to recommend amendments thereto, to purchase and sell securities, to exercise authority regarding investments and to exercise, when the board of directors is not in session, all other powers of the board of directors regarding investment securities that may be lawfully delegated. The investment committee shall keep minutes of its meetings, and such minutes shall be submitted at the next regular meeting of the board of directors at which a quorum is present, and any action taken by the board of directors with respect thereto shall be entered in the minutes of the board of directors.

Section 3. Examining Committee. There shall be an examining committee composed of not less than 2 directors, exclusive of any active officers, appointed by the board of directors annually or more often. The duty of that committee shall be to examine at least once during each calendar year and within 15 months of the last examination the affairs of the association or cause suitable examinations to be made by auditors responsible only to the board of directors and to report the result of such examination in writing to the board of directors at the next regular meeting thereafter. Such report shall state whether the association is in a sound condition, and whether adequate internal controls and procedures are being maintained and shall recommend to the board of directors such changes in the manner of conducting the affairs of the association as shall be deemed advisable.

Notwithstanding the provisions of the first paragraph of this section 3, the responsibility and authority of the Examining Committee may, if authorized by law, be given over to a duly constituted audit committee of the association's parent corporation by a resolution duly adopted by the board of directors.

Section 4. Trust Audit Committee. There shall be a trust audit committee in conformance with Section 1 of Article V.

Section 5. Other Committees. The board of directors may appoint, from time to time, from its own members, compensation, special litigation and other committees of one or more persons, for such purposes and with such powers as the board of directors may determine.

However, a committee may not:

- (1) Authorize distributions of assets or dividends;
- (2) Approve action required to be approved by shareholders;
- (3) Fill vacancies on the board of directors or any of its committees;
- (4) Amend articles of association;
- (5) Adopt, amend or repeal bylaws; or
- (6) Authorize or approve issuance or sale or contract for sale of shares, or determine the designation and relative rights, preferences and limitations of a class or series of shares.

Section 6. Committee Members' Fees. Committee members may receive a fee for their services as committee members and traveling and other out-of-pocket expenses incurred in attending any meeting of a committee of which they are a member. The fee may be a fixed sum to be paid for attending each meeting or a fixed sum to be paid quarterly, or semiannually, irrespective of the number of meetings attended or not attended. The amount of the fee and the basis on which it shall be paid shall be determined by the board of directors.

ARTICLE IV **Officers and Employees**

Section 1. Officers. The board of directors shall annually, at the Annual Reorganization Meeting of the board of directors following the annual meeting of the shareholders, appoint or elect a Chairperson of the Board, a Chief Executive Officer and a President, and one or more Vice Presidents however denominated, a Corporate Secretary, a Treasurer, a Chief Auditor, and such other officers as it may determine. At the Annual Reorganization Meeting, the board of directors shall also elect or reelect all of the officers of the association to hold office until the next Annual Reorganization Meeting. In the interim between Annual Reorganization Meetings, the officers of the association may be elected as follows and shall hold office until the next Annual Reorganization meeting unless otherwise determined by the board of directors or such authorized officer(s): The head of the Human Resources Department of M&T Bank or his or her designee or designees, may appoint officers up to and including the rank of Senior Executive Vice President, including (without limitation as to title or number) one or more Executive Vice Presidents, Senior Vice Presidents, Vice Presidents, Assistant Vice Presidents, Assistant Secretaries, Assistant Treasurers and Assistant Auditors, and any other officer positions as they deem necessary and appropriate, except for any "SEC-Reporting Officers" of M&T Bank Corporation for purposes of Section 16 of the Securities Exchange Act of 1934, as such officers may only be appointed by the Board of Directors.

Section 2. Chairperson of the Board. The board of directors shall appoint one of its members to be the chairperson of the board to serve at its pleasure. Such person shall preside at all meetings of the board of directors. The chairperson of the board shall supervise the carrying out of the policies adopted or approved by the board of directors; shall have general executive powers, as well as the specific powers conferred by these bylaws; and shall also have and may exercise such further powers and duties as from time to time may be conferred upon or assigned by the board of directors.

Section 3. President. The board of directors shall appoint one of its members to be the president of the association. In the absence of the chairperson, the president shall preside at any meeting of the board of directors. The president shall have general executive powers and shall have and may exercise any and all other powers and duties pertaining by law, regulation, or practice to the office of president, or imposed by these bylaws. The president shall also have and may exercise such further powers and duties as from time to time may be conferred or assigned by the board of directors.

Section 4. Vice President. The board of directors may appoint one or more vice presidents. Each vice president shall have such powers and duties as may be assigned by the board of directors. One vice president shall be designated by the board of directors, in the absence of the president, to perform all the duties of the president.

Section 5. Secretary. The board of directors shall appoint a secretary, treasurer, or other designated officer who shall be secretary of the board of directors and of the association and who shall keep accurate minutes of all meetings. The secretary shall attend to the giving of all notices required by these bylaws; shall be custodian of the corporate seal, records, documents and papers of the association; shall provide for the keeping of proper records of all transactions of the association; shall have and may exercise any and all other powers and duties pertaining by law, regulation or practice to the office of treasurer, or imposed by these bylaws; and shall also perform such other duties as may be assigned from time to time, by the board of directors.

Section 6. Other Officers. The board of directors may appoint one or more assistant vice presidents, one or more trust officers, one or more officers, one or more assistant secretaries, one or more assistant treasurers, one or more managers and assistant managers of branches and such other officers and attorneys in fact as from time to time may appear to the board of directors to be required or desirable to transact the business of the association. Such officers shall respectively exercise such powers and perform such duties as pertain to their several offices, or as may be conferred upon or assigned to them by the board of directors, the chairperson of the board, or the president. The board of directors may authorize an officer to appoint one or more officers or assistant officers.

Section 7. Tenure of Office. The president and all other officers shall hold office for the current year for which the board of directors was elected, unless they shall resign, become disqualified, or be removed; and any vacancy occurring in the office of president shall be filled promptly by the board of directors.

Section 8. Resignation. An officer may resign at any time by delivering notice to the association. A resignation is effective when the notice is given unless the notice specifies a later effective date.

ARTICLE V **Fiduciary Activities**

Section 1. Trust Audit Committee. There shall be a Trust Audit Committee composed of not less than 2 directors, appointed by the board of directors, which shall, at least once during each calendar year make suitable audits of the association's fiduciary activities or cause suitable audits to be made by auditors responsible only to the board, and at such time shall ascertain whether fiduciary powers have been administered according to law, Part 9 of the Regulations of the Comptroller of the Currency, and sound fiduciary principles. Such committee: (1) must not include any officers of the bank or an affiliate who participate significantly in the administration of the bank's fiduciary activities; and (2) must consist of a majority of members who are not also members of any committee to which the board of directors has delegated power to manage and control the fiduciary activities of the bank.

Notwithstanding the provisions of the first paragraph of this section 1, the responsibility and authority of the Trust Audit Committee may, if authorized by law, be given over to a duly constituted audit committee of the association's parent corporation by a resolution duly adopted by the board of directors.

Section 2. Fiduciary Files. There shall be maintained by the association all fiduciary records necessary to assure that its fiduciary responsibilities have been properly undertaken and discharged.

Section 3. Trust Investments. Funds held in a fiduciary capacity shall be invested according to the instrument establishing the fiduciary relationship and applicable law. Where such instrument does not specify the character and class of investments to be made, but does vest in the association investment discretion, funds held pursuant to such instrument shall be invested in investments in which corporate fiduciaries may invest under applicable law.

ARTICLE VI **Stock and Stock Certificates**

Section 1. Transfers. Shares of stock shall be transferable on the books of the association, and a transfer book shall be kept in which all transfers of stock shall be recorded. Every person becoming a shareholder by such transfer shall in proportion to such shareholder's shares, succeed to all rights of the prior holder of such shares. The board of directors may impose conditions upon the transfer of the stock reasonably calculated to simplify the work of the association with respect to stock transfers, voting at shareholder meetings and related matters and to protect it against fraudulent transfers.

Section 2. Stock Certificates. Certificates of stock shall bear the signature of the president (which may be engraved, printed or impressed) and shall be signed manually or by facsimile process by the secretary, assistant secretary, treasurer, assistant treasurer, or any other officer appointed by the board of directors for that purpose, to be known as an authorized officer, and the seal of the association shall be engraved thereon. Each certificate shall recite on its face that the stock represented thereby is transferable only upon the books of the association properly endorsed.

The board of directors may adopt or use procedures for replacing lost, stolen, or destroyed stock certificates as permitted by law.

The association may establish a procedure through which the beneficial owner of shares that are registered in the name of a nominee may be recognized by the association as the shareholder. The procedure may set forth:

- (1) The types of nominees to which it applies;
- (2) The rights or privileges that the association recognizes in a beneficial owner;
- (3) How the nominee may request the association to recognize the beneficial owner as the shareholder;
- (4) The information that must be provided when the procedure is selected;
- (5) The period over which the association will continue to recognize the beneficial owner as the shareholder;
- (6) Other aspects of the rights and duties created.

ARTICLE VII **Corporate Seal**

Section 1. Seal. The seal of the association shall be in such form as may be determined from time to time by the board of directors. The president, the treasurer, the secretary or any assistant treasurer or assistant secretary, or other officer thereunto designated by the board of directors shall have authority to affix the corporate seal to any document requiring such seal and to attest the same. The seal on any corporate obligation for the payment of money may be facsimile.

ARTICLE VIII **Miscellaneous Provisions**

Section 1. Fiscal Year. The fiscal year of the association shall be the calendar year.

Section 2. Execution of Instruments. All agreements, indentures, mortgages, deeds, conveyances, transfers, certificates, declarations, receipts, discharges, releases, satisfactions, settlements, petitions, schedules, accounts, affidavits, bonds, undertakings, proxies and other instruments or documents may be signed, executed, acknowledged, verified, delivered or accepted on behalf of the association by any officer elected or appointed pursuant to Article IV of these bylaws. Any such instruments may also be executed, acknowledged, verified, delivered or accepted on behalf of the association in such other manner and by such other officers as the board of directors may from time to time direct. The provisions of this section 2 are supplementary to any other provision of these bylaws.

Section 3. Records. The articles of association, the bylaws and the proceedings of all meetings of the shareholders, the board of directors, and standing committees of the board of directors shall be recorded in appropriate minute books provided for that purpose. The minutes of each meeting shall be signed by the secretary, treasurer or other officer appointed to act as secretary of the meeting.

Section 4. Corporate Governance Procedures. To the extent not inconsistent with federal banking statutes and regulations, or safe and sound banking practices, the association may follow the Delaware General Corporation Law, Del. Code Ann. tit. 8 (1991, as amended 1994, and as amended thereafter) with respect to matters of corporate governance procedures.

Section 5. Indemnification. For purposes of this Section 5 of Article VIII, the term "institution-affiliated party" shall mean any institution-affiliated party of the association as such term is defined in 12 U.S.C. 1813(u).

Any institution-affiliated party (or his or her heirs, executors or administrators) may be indemnified or reimbursed by the association for reasonable expenses actually incurred in connection with any threatened, pending or completed actions or proceedings and appeals therein, whether civil, criminal, governmental, administrative or investigative, in accordance with and to the fullest extent permitted by law, as such law now or hereafter exists; provided, however, that when an administrative proceeding or action instituted by a federal banking agency results in a final order or settlement pursuant to which such person: (i) is assessed a civil money penalty, (ii) is removed from office or prohibited from participating in the conduct of the affairs of the association, or (iii) is required to cease and desist from or to take any affirmative action described in 12 U.S.C. 1818(b) with respect to the association, then the association shall require the repayment of all legal fees and expenses advanced pursuant to the next succeeding paragraph and may not indemnify such institution-affiliated parties (or their heirs, executors or administrators) for expenses, including expenses for legal fees, penalties or other payments incurred. The association shall provide indemnification in connection with an action or proceeding (or part thereof) initiated by an institution-affiliated party (or by his or her heirs, executors or administrators) only if such action or proceeding (or part thereof) was authorized by the board of directors.

Expenses incurred by an institution-affiliated party (or by his or her heirs, executors or administrators) in connection with any action or proceeding under 12 U.S.C. 164 or 1818 may be paid by the association in advance of the final disposition of such action or proceeding upon (a) a determination by the board of directors acting by a quorum consisting of directors who are not parties to such action or proceeding that the institution-affiliated party (or his or her heirs, executors or administrators) has a reasonable basis for prevailing on the merits, (b) a determination that the indemnified individual (or his or her heirs, executors or administrators) will have the financial capacity to reimburse the bank in the event he or she does not prevail, (c) a determination that the payment of expenses and fees by the association will not adversely affect the safety and soundness of the association, and (d) receipt of an undertaking by or on behalf of such institution-affiliated party (or by his or her heirs, executors or administrators) to repay such advancement in the event of a final order or settlement pursuant to which such person: (i) is assessed a civil money penalty, (ii) is removed from office or prohibited from participating in the conduct of the affairs of the association, or (iii) is required to cease and desist from or to take any affirmative action described in 12 U.S.C. 1818(b) with respect to the association. In all other instances, expenses incurred by an institution-affiliated party (or by his or her heirs, executors or administrators) in connection with any action or proceeding as to which indemnification may be given under these articles of association may be paid by the association in advance of the final disposition of such action or proceeding upon (a) receipt of an undertaking by or on behalf of such institution-affiliated party (or by or on behalf of his or her heirs, executors or administrators) to repay such advancement in the event that such institution-affiliated party (or his or her heirs, executors or administrators) is ultimately found not to be entitled to indemnification as authorized by these bylaws and (b) approval by the board of directors acting by a quorum consisting of directors who are not parties to such action or proceeding or, if such a quorum is not obtainable, then approval by stockholders. To the extent permitted by law, the board of directors or, if applicable, the stockholders, shall not be required to find that the institution-affiliated party has met the applicable standard of conduct provided by law for indemnification in connection with such action or proceeding.

In the event that a majority of the members of the board of directors are named as respondents in an administrative proceeding or civil action and request indemnification, the remaining members of the board may authorize independent legal counsel to review the indemnification request and provide the remaining members of the board with a written opinion of counsel as to whether the conditions delineated in the first four paragraphs of this Section 5 of Article VIII have been met. If independent legal counsel opines that said conditions have been met, the remaining members of the board of directors may rely on such opinion in authorizing the requested indemnification.

In the event that all of the members of the board of directors are named as respondents in an administrative proceeding or civil action and request indemnification, the board shall authorize independent legal counsel to review the indemnification request and provide the board with a written opinion of counsel as to whether the conditions delineated in the first four paragraphs of this Section 5 of Article VIII have been met. If legal counsel opines that said conditions have been met, the board of directors may rely on such opinion in authorizing the requested indemnification.

To the extent permitted under applicable law, the rights of indemnification and to the advancement of expenses provided in these articles of association (a) shall be available with respect to events occurring prior to the adoption of these bylaws, (b) shall continue to exist after any restrictive amendment of these bylaws with respect to events occurring prior to such amendment, (c) may be interpreted on the basis of applicable law in effect at the time of the occurrence of the event or events giving rise to the action or proceeding, or on the basis of applicable law in effect at the time such rights are claimed, and (d) are in the nature of contract rights which may be enforced in any court of competent jurisdiction as if the association and the institution-affiliated party (or his or her heirs, executors or administrators) for whom such rights are sought were parties to a separate written agreement.

The rights of indemnification and to the advancement of expenses provided in these bylaws shall not, to the extent permitted under applicable law, be deemed exclusive of any other rights to which any such institution-affiliated party (or his or her heirs, executors or administrators) may now or hereafter be otherwise entitled whether contained in the association's articles of association, these bylaws, a resolution of stockholders, a resolution of the board of directors, or an agreement providing such indemnification, the creation of such other rights being hereby expressly authorized. Without limiting the generality of the foregoing, the rights of indemnification and to the advancement of expenses provided in these bylaws shall not be deemed exclusive of any rights, pursuant to statute or otherwise, of any such institution-affiliated party (or of his or her heirs, executors or administrators) in any such action or proceeding to have assessed or allowed in his or her favor, against the association or otherwise, his or her costs and expenses incurred therein or in connection therewith or any part thereof.

If this Section 5 of Article VIII or any part hereof shall be held unenforceable in any respect by a court of competent jurisdiction, it shall be deemed modified to the minimum extent necessary to make it enforceable, and the remainder of this Section 5 of Article VIII shall remain fully enforceable.

The association may, upon affirmative vote of a majority of its board of directors, purchase insurance to indemnify its institution-affiliated parties to the extent that such indemnification is allowed in these bylaws; provided, however, that no such insurance shall include coverage for a final order assessing civil money penalties against such persons by a bank regulatory agency. Such insurance may, but need not, be for the benefit of all institution- affiliated parties.

ARTICLE IX

Inspection and Amendments

Section 1. Inspection. A copy of the bylaws of the association, with all amendments, shall at all times be kept in a convenient place at the main office of the association, and shall be open for inspection to all shareholders during banking hours.

Section 2. Amendments. The bylaws of the association may be amended, altered or repealed, at any regular meeting of the board of directors, by a vote of a majority of the total number of the directors except as provided below, and provided that the following language accompany any such change.

I, _____, certify that: (1) I am the duly constituted (secretary or treasurer) of _____ and secretary of its board of directors, and as such officer am the official custodian of its records; (2) the foregoing bylaws are the bylaws of the association, and all of them are now lawfully in force and effect.

I have hereunto affixed my official signature on this _____ day of _____.

(Secretary or Treasurer)

The association's shareholders may amend or repeal the bylaws even though the bylaws also may be amended or repealed by the board of directors.

EXHIBIT 6

Section 321(b) Consent

Pursuant to Section 321(b) of the Trust Indenture Act of 1939, as amended, Wilmington Trust, National Association hereby consents that reports of examinations by Federal, State, Territorial or District authorities may be furnished by such authorities to the Securities and Exchange Commission upon requests therefor.

WILMINGTON TRUST, NATIONAL ASSOCIATION

Dated: June 24, 2022

By: /s/ Christopher Spinelli

Name: Christopher Spinelli

Title: Vice President

EXHIBIT 7**REPORT OF CONDITION****WILMINGTON TRUST, NATIONAL ASSOCIATION**

As of the close of business on March 31, 2022

ASSETS	Thousands of Dollars
Cash and balances due from depository institutions:	705,614
Securities:	5,933
Federal funds sold and securities purchased under agreement to resell:	0
Loans and leases held for sale:	0
Loans and leases net of unearned income, allowance:	72,971
Premises and fixed asset	25,215
Other real estate owned:	348
Investments in unconsolidated subsidiaries and associated companies:	0
Direct and indirect investments in real estate ventures:	0
Intangible assets:	0
Other assets:	65,733
Total Assets:	875,814
LIABILITIES	Thousands of Dollars
Deposits	11,764
Federal funds purchased and securities sold under agreements to repurchase	0
Other borrowed money:	0
Other Liabilities:	75,637
Total Liabilities	87,401
EQUITY CAPITAL	Thousands of Dollars
Common Stock	1,000
Surplus	526,042
Retained Earnings	261,498
Accumulated other comprehensive income	(127)
Total Equity Capital	788,413
Total Liabilities and Equity Capital	875,814

Calculation of Filing Fee Tables

Form S-3
(Form Type)FTC SOLAR, 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												
Primary Offering of Securities												
Fees to be Paid	Equity	Common Stock, par value \$0.0001 per share	—	—	—	—	—	—				
	Equity	Preferred Stock, par value \$0.0001 per share	—	—	—	—	—	—				
	Debt	Debt Securities	—	—	—	—	—	—				
	Other	Warrants	—	—	—	—	—	—				
	Unallocated (Universal) Shelf	Unallocated (Universal) Shelf	457(o)	\$250,000,000 ⁽¹⁾	— ⁽²⁾	\$250,000,000	0.0000927	\$23,175				
Fees Previously Paid												
Carry Forward Securities												
Secondary Offering of Securities												
Carry Forward Securities	Equity	Common Stock, par value \$0.0001 per share	415(a)(6)	35,674,463 ⁽³⁾⁽⁴⁾	—	—	—	—	S-1	333-262538	March 25, 2022	\$11,756.47 ⁽⁴⁾
	Total Offering Amounts							\$376,822,715.97 ⁽⁵⁾	\$34,931.47			
	Total Fees Previously Paid								\$11,756.47			
	Total Fee Offsets											
	Net Fee Due								\$23,175			

(1) The amount to be registered consists of up to \$250,000,000 aggregate offering price of an indeterminate amount of common stock, preferred stock, debt securities and/or warrants of the registrant. There is also being registered hereunder such currently indeterminate number of (i) shares of common stock or other securities of the registrant as may be issued upon conversion of, or in exchange for, convertible or exchangeable debt securities and/or preferred stock registered hereby, or (ii) shares of common stock, preferred stock or debt securities as may be issued upon exercise of warrants registered hereby, as the case may be, including under any applicable antidilution provisions. Any securities registered hereunder may be sold separately or together with other securities registered hereunder. Pursuant to Rule 416 under the Securities Act of 1933, as amended (the "Securities Act"), this registration statement also covers any additional securities that may be offered or issued in connection with any stock split, stock dividend or pursuant to anti-dilution provisions of any of the securities. Separate consideration may or may not be received for securities that are issuable upon conversion, exercise or exchange of other securities.

(2) The proposed maximum offering price per security will be determined from time to time by the registrant in connection with the issuance by the registrant of the securities registered hereunder and is not specified as to each class of security pursuant to General Instruction II.D. of Form S-3 under the Securities Act.

(3) Shares of common stock registered for resale pursuant to this registration statement are shares which are to be offered by the selling stockholders named herein. In the event of a stock split, stock dividend or recapitalization involving the common stock, the number of shares registered shall automatically be adjusted to cover the additional shares of common stock issuable pursuant to Rule 416 under the Securities Act.

(4) The registrant previously paid a filing fee of \$12,284.91 in connection with the registration of 37,277,987 shares of common stock for resale by the selling stockholders named in the registration on Form S-1 (Registration No. 333-262538), which was declared effective by the Securities and Exchange Commission on March 25, 2022 (the "Prior Registration Statement"), of which 35,674,463 remain unsold (the "Unsold Securities"). The registrant expects to carry forward to this registration statement the Unsold Securities pursuant to Rule 415(a)(6) under the Securities Act. \$11,756.47 is the portion of the filing fee associated with the Unsold Securities. Pursuant to Rule

415(a)(6) under the Securities Act of 1933, the offering of Unsold Securities under the Prior Registration Statement will be deemed terminated as of the date of effectiveness of this registration statement.

- (5) Inclusive of \$250,000,000 aggregate offering price for primary offerings of securities by the registrant and \$126,822,715.97 maximum aggregate offering price for resales of the Unsold Securities by the selling stockholders named herein, originally calculated pursuant to Rule 457(c) under the Securities Act, based upon the average of the high and low prices per share of the registrant's common stock, as reported on The Nasdaq Global Market, on January 28, 2022, a date within five business days prior to the initial filing of the Prior Registration Statement.
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