

SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549

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

ALCOA INC.
(Exact Name of Registrant as Specified in Its Charter)

Pennsylvania
(State or other jurisdiction of
incorporation or organization)

25-0317820
(I.R.S. Employer
Identification Number)

ALCOA TRUST I
(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation or organization)

25-6581451
(I.R.S. Employer
Identification Number)

201 Isabella Street
Pittsburgh, Pennsylvania 15212-5858
(412) 553-4545
(Address, Including Zip Code, and Telephone Number, Including Area Code, of
Registrants' Principal Executive Offices)

Lawrence R. Purtell, Executive Vice President and General Counsel
390 Park Avenue
New York, New York 10022-4608
(212) 836-2650
(Name, Address, Including Zip Code, and Telephone Number, Including Area Code,
of Agent for Service)

With Copies to:

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Skadden, Arps, Slate, Meagher & Flom
LLP
Four Times Square
New York, New York 10036
(212) 735-3000

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825 Eighth Avenue
New York, New York 10019
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Approximate date of commencement of proposed sale to the public: From time
to time after the effective date of this registration statement, as determined
by market conditions and other factors.

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

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

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

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

If delivery of the prospectus is expected to be made pursuant to Rule 434,
please check the following box.

CALCULATION OF REGISTRATION FEE

Title of each Class of Securities to be Registered	Amount to be Registered(1)	Proposed Maximum Offering Price Per Unit(1)(2)	Proposed Maximum Aggregate Offering Price(1)(2)(3)	Amount of Registration Fee
Debt Securities of Alcoa Inc.(4).....				
Warrants to purchase Debt Securities of Alcoa Inc.(5).....				
Class B Serial Preferred Stock, \$1.00 par value, of Alcoa Inc.(6).....				
Common Stock, \$1.00 par value, of Alcoa Inc.(7).....				
Trust Preferred Securities of Alcoa Trust I(8).....				
Guarantee of Preferred Securities of Alcoa Trust I by Alcoa Inc.(9).....				
Total.....	\$3,000,000,000(10)	100%	\$3,000,000,000(10)	\$750,000

- (1) Not specified for each class pursuant to General Instruction II.D. of Form S-3.
- (2) The proposed maximum offering price per unit will be determined from time to time by the Registrants in connection with the issuance by the Registrants of the securities registered hereunder.
- (3) Estimated solely for the purpose of calculating the registration fee pursuant to Rule 457 under the Securities Act of 1933, as amended.
- (4) Subject to note (10) below, there is being registered hereunder an indeterminate principal amount of debt securities of Alcoa Inc. as may be sold from time to time. If any debt securities are issued at an original issue discount, then the offering price shall be in such greater principal amount as shall result in an aggregate initial offering price not to exceed \$3,000,000,000.
- (5) Subject to note (10) below, there is being registered hereunder an indeterminate number of warrants to be issued from time to time.
- (6) Subject to note (10) below, there is being registered hereunder an indeterminate number of shares of preferred stock of Alcoa Inc. as may be sold, from time to time.
- (7) Subject to note (10) below, there is being registered hereunder an indeterminate number of shares of common stock of Alcoa Inc. as shall be issuable upon conversion or exchange of debt securities or preferred stock of Alcoa Inc. or preferred securities of Alcoa Trust I being registered hereunder, to the extent any of such securities are by their terms convertible into or exchangeable for common stock, plus such additional shares as may be issued pursuant to anti-dilution adjustments.
- (8) Subject to note (10) below, there is being registered hereunder an indeterminate amount and number of preferred securities of Alcoa Trust I as may be sold from time to time.
- (9) No separate consideration will be received for the guarantee of the preferred securities of Alcoa Trust I. The guarantee includes the rights of holders of the preferred securities of Alcoa Trust I under the guarantee and certain back-up undertakings, as described in the Registration Statement.
- (10) In no event will the aggregate offering price of all securities issued from time to time pursuant to this Registration Statement exceed \$3,000,000,000 or the equivalent thereof in one or more foreign currencies, foreign currency units or composite currencies. The aggregate amount of common stock of Alcoa Inc. registered hereunder is further limited to that which is permissible under Rule 415(a)(4) under the Securities Act of 1933, as amended. The securities registered hereunder may be sold separately or as units with other securities registered hereunder.

The Registrants hereby amend this Registration Statement on such date or dates as may be necessary to delay its effective date until the Registrants shall file a further amendment which specifically states that this Registration Statement shall thereafter become effective in accordance with Section 8(a) of

the Securities Act of 1933, or until the Registration Statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

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

SUBJECT TO COMPLETION
DATED APRIL 16, 2001

PROSPECTUS

[LOGO OF ALCOA]

\$3,000,000,000

Alcoa Inc.

Debt Securities

Warrants to Purchase Debt Securities

Preferred Stock

Common Stock

Alcoa Trust I

Trust Preferred Securities Fully and Unconditionally Guaranteed by Alcoa Inc.

Alcoa Inc. may sell from time to time in one or more offerings, together or separately:

- . senior debt securities
- . subordinated debt securities
- . warrants to purchase debt securities
- . preferred stock
- . common stock issuable only upon conversion or exchange of securities convertible into or exchangeable for common stock.

Alcoa Inc.'s common stock is listed on the New York Stock Exchange under the symbol "AA."

Alcoa Trust I may sell trust preferred securities, fully and unconditionally guaranteed on a subordinated basis by Alcoa Inc.

The securities offered by Alcoa Inc. and Alcoa Trust I may be issued in one or more series or issuances and their total offering price, in the aggregate, will not exceed \$3,000,000,000. We will provide the specific terms of any securities we actually offer for sale in supplements to this prospectus. You should read this prospectus and the supplements carefully before you decide to invest in any of these securities.

The mailing address of the principal executive offices of Alcoa Inc. and Alcoa Trust I is 201 Isabella Street, Pittsburgh, Pennsylvania 15212-5858. The telephone number is (412) 553-4545.

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

This prospectus may not be used to sell securities unless accompanied by a prospectus supplement.

The date of this Prospectus is .

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ABOUT THIS PROSPECTUS

This prospectus is part of a "shelf" registration statement that Alcoa and the Alcoa Trust have filed with the SEC. By using a shelf registration statement, we may sell, from time to time, in one or more offerings, any combination of the securities described in this prospectus in a dollar amount that does not exceed \$3,000,000,000. For further information about Alcoa's business, the Alcoa Trust and the securities, you should refer to the registration statement and its exhibits. The exhibits to our registration statement contain the full text of certain contracts and other important documents we have summarized in this prospectus. Since these summaries may not contain all the information that you may find important in deciding whether to purchase the securities we may offer, you should review the full text of these documents. The registration statement can be obtained from the SEC as indicated under the heading "Where You Can Find More Information."

This prospectus only provides you with a general description of the securities we may offer. Each time we sell securities, we will provide a prospectus supplement that contains specific information about the terms of those securities. The prospectus supplement may also add, update or change information contained in this prospectus. You should read both this prospectus and any prospectus supplement together with the additional information described below under the heading "Where You Can Find More Information."

You should rely only on the information contained or incorporated by reference in this prospectus and the prospectus supplement. We have not authorized anyone to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. We will not make an offer to sell these securities in any jurisdiction where the offer or sale is not permitted. You should assume that the information appearing in this prospectus, as well as information we previously filed with the SEC and incorporated by reference in this prospectus, is accurate only as of the date on the front cover of this prospectus. Our business, financial condition, results of operations and prospects may have changed since that date.

WHERE YOU CAN FIND MORE INFORMATION

Alcoa Inc. ("Alcoa" or "the Company") files annual, quarterly and current reports, proxy statements and other information with the Securities and Exchange Commission (the "SEC"). Its SEC filings are available over the Internet at the SEC's web site at <http://www.sec.gov>. You also may read and copy any document it files with the SEC at the SEC's public reference rooms at 450 Fifth Street, N.W., Room 1024, Washington, D.C. 20549; 7 World Trade Center, Suite 1300, New York, New York 10048; and Citicorp Center, 500 West Madison Street, Suite 1400, Chicago, Illinois 60661-2511. Please call the SEC at 1-800-SEC-0330 for more information on the public reference rooms and their copy charges. Alcoa's common stock is listed and traded on the New York Stock Exchange (the "NYSE"). You may also inspect the information it files with the SEC at the NYSE's offices at 20 Broad Street, New York, New York 10005.

No separate financial statements of Alcoa Trust I (the "Alcoa Trust") have been included or incorporated by reference. Neither the Alcoa Trust nor Alcoa considers financial statements of the Alcoa Trust material to holders of the trust preferred securities because:

- . all of the voting securities of the Alcoa Trust will be owned, directly or indirectly, by Alcoa, a reporting company under the Securities Exchange Act of 1934, as amended (the "Exchange Act");
- . the Alcoa Trust has no independent operations and exists for the purpose of issuing securities representing undivided beneficial interests in the assets of the Alcoa Trust and investing the proceeds in the subordinated debt securities issued by Alcoa; and
- . the obligations of the Alcoa Trust under the trust preferred securities issued by it will be fully and unconditionally guaranteed on a subordinated basis by Alcoa to the extent described in this prospectus.

INCORPORATION BY REFERENCE

The SEC allows Alcoa to "incorporate by reference" the information in documents it files with the SEC. This means that Alcoa can disclose important information to you by referring you to those documents. Any information Alcoa incorporates in this manner is considered part of this prospectus. Any information Alcoa files with the SEC after the date of this prospectus will automatically update and supersede the information contained or incorporated by reference in this prospectus.

Alcoa incorporates by reference the following document that it has filed with the SEC:

- . Annual Report on Form 10-K for the fiscal year ended December 31, 2000, as amended by Amendment No. 1 on Form 10-K/A filed on March 6, 2001.

Alcoa also incorporates by reference any future filings it will make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act after the date of this prospectus, but before the end of the offering of the securities made by this prospectus.

You may request a copy of any filings referred to above (including any exhibits that are specifically incorporated by reference), at no cost, by contacting Alcoa at the following address or telephone number:

Alcoa Inc.
Attention: Treasurer
201 Isabella Street
Pittsburgh, Pennsylvania 15212-5858
Telephone: (412) 553-4545

ALCOA INC.

Alcoa is the world's leading producer of primary aluminum, fabricated aluminum and alumina, and is active in all major aspects of the industry: technology, mining, refining, smelting, fabricating and recycling. Alcoa serves customers worldwide in the packaging, consumer, automotive and transportation, aerospace, building and construction, industrial products and distribution markets. Related businesses include packaging machinery, precision castings, vinyl siding, plastic bottles and closures, fiber optic cables and electrical distribution systems for cars and trucks.

Alcoa's operations consist of five worldwide segments: Alumina and Chemicals, Primary Metals, Flat-Rolled Products, Engineered Products and Packaging and Consumer. Alcoa businesses that are not reported to management as part of one of these five segments are aggregated and reported as "Other."

Alumina and Chemicals--This segment's activities include the mining of bauxite, which is then refined into alumina. Alumina is sold to internal and external customers worldwide or processed into industrial chemical products.

Primary Metals--This segment consists of Alcoa's worldwide smelter system and includes the smelting operations of Reynolds Metals Company ("Reynolds") acquired in 2000. Primary Metals receives alumina from the Alumina and Chemicals segment and produces aluminum ingot to be used by Alcoa's fabricating businesses, as well as sold to outside customers. Also included in this segment are revenues from the sale of powder, scrap and excess power, results from internal hedging contracts and results from marking to market certain aluminum commodity contracts.

Flat-Rolled Products--This segment's principal business is the production and sale of aluminum plate, sheet and foil. This segment includes rigid container sheet, which is used to produce aluminum beverage cans, and sheet and plate used in the transportation and distributor markets.

Engineered Products--This segment consists of hard- and soft-alloy extrusions, including architectural extrusions, super-alloy castings, steel and aluminum fasteners, aluminum forgings and wheels. These products serve the transportation, construction and distributor markets.

Packaging and Consumer--This segment includes the packaging and consumer businesses of Reynolds acquired in 2000, as well as Alcoa's closures, packaging, PET bottles and packaging machinery businesses. Alcoa's closures, packaging, PET bottles and packaging machinery businesses were previously included in the Other group.

Other--This group includes Alcoa Fujikura Ltd., which produces fiber-optic cable, provides services for the telecommunications industry and produces electrical components for the automotive industry; Thiokol Propulsion, a producer of solid rocket propulsion systems; Reynolds' metal distribution business (known as RASCO); the residential building products operations, Alcoa Building Products; and aluminum automotive engineering and parts businesses.

Alcoa has operating locations in 37 countries. The principal executive offices of Alcoa are located at 201 Isabella Street, Pittsburgh, Pennsylvania 15212-5858 (telephone: (412) 553-4545).

ALCOA TRUST I

The Alcoa Trust is a statutory business trust formed under Delaware law pursuant to:

- . a Declaration of Trust (a "Declaration") executed by Alcoa, as sponsor for the Alcoa Trust, and the trustees of the Alcoa Trust; and
- . the filing of a certificate of trust with the Delaware Secretary of State.

Unless an accompanying prospectus supplement provides otherwise, the Alcoa Trust exists for the sole purposes of:

- . selling trust preferred securities and investing the proceeds in a specific series of subordinated debt securities issued by Alcoa;
- . issuing and selling common securities to Alcoa in exchange for cash and investing the proceeds in additional subordinated debt securities issued by Alcoa; and
- . engaging in other activities that are necessary, convenient or incidental to the sale of trust preferred and common securities or the purchase of Alcoa debt securities.

The Alcoa Trust will not borrow money, issue debt or reinvest proceeds derived from investments, pledge any of its assets, or otherwise undertake, or permit to be undertaken, any activity that would cause the Alcoa Trust not to be classified for United States Federal income tax purposes as a grantor trust. Alcoa will own all of the trust common securities issued by the Alcoa Trust. The trust common securities will rank *pari passu*, and payments will be made thereon *pro rata*, with the trust preferred securities, except that upon the occurrence and continuance of an event of default under the Declaration, the rights of the holders of the trust common securities to payment in respect of distributions and payments upon liquidation, redemption and otherwise will be subordinated to the rights of the holders of the trust preferred securities. In connection with the issuance of trust preferred securities by the Alcoa Trust, Alcoa will acquire trust common securities having an aggregate liquidation amount equal to a minimum of 3% of the total capital of the Alcoa Trust. The Alcoa Trust will have a term of 40 years, but may terminate earlier as provided in the Declaration.

The Alcoa Trust's business and affairs will be conducted by the trustees. The holder of the trust common securities will be entitled to appoint, remove or replace any of, or increase or reduce the number of, the trustees of the Alcoa Trust. The duties and obligations of the trustees will be governed by the Declaration of the Alcoa Trust. At least one of the trustees of the Alcoa Trust will be a person who is an employee or officer of or who is affiliated with Alcoa (a "Regular Trustee"). One trustee of the Alcoa Trust will be a financial institution that is not affiliated with Alcoa, which will act as property trustee and as indenture trustee for the purposes of the Trust Indenture Act of 1939, as amended (the "Trust Indenture Act"), pursuant to the terms set forth in the applicable prospectus supplement (the "Property Trustee"). In addition, unless the Property Trustee maintains a principal place of business in the State of Delaware and otherwise meets the requirements of applicable law, one trustee of the Alcoa Trust will be a legal entity having a principal place of business in, or an individual resident of, the State of Delaware (the "Delaware Trustee").

Alcoa will pay all fees and expenses related to the Alcoa Trust and the offering of the trust preferred securities. Unless otherwise set forth in the prospectus supplement, the Property Trustee will be The Chase Manhattan Bank, and the Delaware Trustee will be Chase Manhattan Bank Delaware. The office of the Delaware Trustee in the State of Delaware is 1201 Market Street, Wilmington, Delaware 19801. The principal place of business of the Alcoa Trust is c/o Alcoa Inc., 201 Isabella Street, Pittsburgh, Pennsylvania 15212-5858 (telephone: (412) 553-4545).

RATIOS OF EARNINGS TO FIXED CHARGES

The following table sets forth the ratio of Alcoa's earnings to fixed charges for the periods indicated:

Year Ended December 31,				
2000	1999	1998	1997	1996
6.5	8.1	7.0	9.2	7.1

The ratios include all earnings, before extraordinary items and the cumulative effects of accounting changes, and fixed charges of Alcoa and its majority owned subsidiaries. Earnings have been calculated by adding to net income the provision for taxes on income, amortization of capitalized interest, interest expense and an amount representative of the interest factor in rentals, the distributed income of less than 50% owned entities, and have been decreased by the undistributed earnings of entities less than 50% owned, preferred stock dividend requirements of majority owned subsidiaries and the minority interest share in the losses of majority owned subsidiaries without fixed charges of Alcoa. Fixed charges consist of total interest expense, amortization of debt expense, an amount representative of the interest factor in rentals, capitalized interest and preferred stock dividend requirements of majority owned subsidiaries.

USE OF PROCEEDS

Unless otherwise specified in a prospectus supplement, Alcoa will use the net proceeds from the sale of the securities offered by it for general corporate purposes, including repayment of borrowings (including borrowings under Alcoa's commercial paper program), working capital, capital expenditures, stock repurchase programs and acquisitions. Unless otherwise specified in a prospectus supplement, the Alcoa Trust will use the net proceeds from the sale of the trust preferred securities to purchase subordinated debt securities of Alcoa.

DESCRIPTION OF SENIOR DEBT SECURITIES

The following description sets forth certain general terms and provisions of the senior debt securities Alcoa may offer from time to time in the future. The particular terms of the senior debt securities and the extent, if any, to which the following general provisions may apply to any series of senior debt securities will be described in the related prospectus supplement.

Senior debt securities may be issued, from time to time, in one or more series under an indenture, dated as of September 30, 1993, between Alcoa and Chase Manhattan Trust Company, N.A., as successor trustee, or another trustee that is named in a prospectus supplement. The indenture is filed with the SEC and incorporated by reference as an exhibit to the registration statement of which this prospectus is a part. The following summary of certain provisions of the indenture and the senior debt securities is not meant to be complete. For more information, you should refer to the full text of the indenture and the senior debt securities, including the definitions of terms used and not defined in this prospectus or the prospectus supplement.

General

The indenture does not limit the aggregate principal amount of senior debt securities that Alcoa may issue. Unless otherwise specified in a prospectus supplement, the senior debt securities:

- . will be unsecured obligations of Alcoa;
- . may be issued under the indenture from time to time in separate series up to the aggregate amount from time to time authorized by Alcoa for each series; and
- . will rank on a parity with all other unsecured and unsubordinated indebtedness of Alcoa.

A prospectus supplement will describe the following terms of any series of senior debt securities Alcoa may offer:

- . the title;
- . any limit on the aggregate principal amount that Alcoa may issue;
- . whether the senior debt securities are to be issuable as registered securities or bearer securities or both, whether any of the senior debt securities are to be issuable initially in temporary global form and whether any of the senior debt securities are to be issuable in permanent global form;
- . the price(s), expressed as a percentage of aggregate principal amount, at which the senior debt securities will be issued;
- . the date(s) of maturity;
- . any rate(s) of interest or the formula pursuant to which interest rate(s) will be determined, and the date from which interest will accrue;
- . the interest payment dates on which any interest on the senior debt securities will be payable, the regular record date for any interest payable on any senior debt securities which are registered securities on any interest payment date and the extent to which, or the manner in which, any interest payable on a temporary global senior debt security on an interest payment date will be paid if other than in the manner described under "Temporary Global Securities" below;
- . the person to whom any interest on any registered security of the series will be payable if other than the person in whose name the registered security is registered at the close of business on the regular record date for the interest as described under "Payment and Paying Agents" below, and the manner in which any interest on any bearer security will be paid if other than in the manner described under "Payment and Paying Agents" below;
- . any mandatory or optional sinking fund or analogous provisions;

- . each office or agency where, subject to the terms of the indenture as described below under "Payment and Paying Agents," the principal of and any premium and interest on the senior debt securities will be payable and each office or agency where, subject to the terms of the indenture as described below under "Form, Exchange, Registration and Transfer," the senior debt securities may be presented for registration of transfer or exchange;
- . any date after which and the price(s) at which the senior debt securities may, pursuant to any optional or mandatory redemption provisions, be redeemed, in whole or in part, and the other detailed terms and provisions of any optional or mandatory redemption provisions;
- . the denominations in which any senior debt securities that are registered securities will be issuable, if other than denominations of \$1,000 and any integral multiple thereof, and the denomination or denominations in which any senior debt securities that are bearer securities will be issuable, if other than the denomination of \$5,000;
- . the currency, currencies or currency units of payment of principal of and any premium and interest on the senior debt securities and the manner of determining the U.S. dollar equivalent for purposes of determining outstanding senior debt securities of the series;
- . any index used to determine the amount of payments of principal of and any premium and interest on the senior debt securities;
- . the portion of the principal amount of the senior debt securities, if other than the principal amount, payable upon acceleration of maturity;
- . if other than the trustee, the person who will be the security registrar of senior debt securities;
- . whether the senior debt securities will be subject to defeasance or covenant defeasance as described under "Defeasance and Covenant Defeasance";
- . any terms and conditions under which the senior debt securities of the series are convertible into or exchangeable for other securities of Alcoa or another issuer;
- . whether the senior debt securities of the series will be issuable in whole or in part in the form of one or more book-entry securities and, in such case, the depository or depositories for such book-entry debt security or book-entry securities and any circumstances other than those set forth in the indenture in which any such book-entry security may be transferred to, and registered and exchanged for senior debt securities registered in the name of, a person other than the depository for such book-entry security or a nominee thereof and in which any such transfer may be registered;
- . any other terms of the senior debt securities not inconsistent with the provisions of the indenture (Section 301); and
- . any special provisions for the payment of additional amounts with respect to the senior debt securities.

Senior debt securities may be issued at a substantial discount below their stated principal amount. Certain United States Federal income tax considerations applicable to senior debt securities issued at a discount and to senior debt securities that are denominated in a currency other than United States dollars will be described in the applicable prospectus supplement.

Senior debt securities may also be issued under the indenture upon the exercise of warrants issued by Alcoa. See "Description of Warrants." United States Federal income tax consequences applicable to any warrants will be set forth in the applicable prospectus supplement.

Form, Exchange, Registration and Transfer

Senior debt securities may be issued in registered form or bearer form or both, as specified in the terms of the series. Unless otherwise indicated in an applicable prospectus supplement, definitive bearer securities will

have interest coupons attached. (Section 201) Senior debt securities of a series may also be issuable in temporary and permanent global form. (Section 201) See "Permanent Global Securities."

In connection with its sale during the restricted period (as defined in United States Treasury Regulations Section 1.163-5(c)(2)(i)(D)(7)), no bearer security, including a senior debt security in permanent global form, may be mailed or otherwise delivered to any location in the United States or its possessions. No bearer security other than a temporary global bearer security may be delivered, nor may interest be paid on any bearer security unless the person entitled to receive the bearer security or interest furnishes written certification, in the form required by the indenture, to the effect that such person:

- . is not a United States person;
- . is a foreign branch of a United States financial institution purchasing for its own account or for resale, or is a United States person who acquired the senior debt security through such a financial institution and who holds the senior debt security through such financial institution on the date of certification. In either of such cases, such financial institution must provide a certificate to Alcoa or the distributor selling the senior debt security to it stating that it agrees to comply with the requirements of Section 165(j)(3)(A), (B) or (C) of the Internal Revenue Code of 1986, as amended, and the United States Treasury Regulations thereunder; or
- . is a financial institution holding for purposes of resale during the restricted period (as defined in United States Treasury Regulations Section 1.163-5(c)(2)(i)(D)(7)).

A financial institution holding for purposes of resale during the restricted period, whether or not also satisfying the other two prongs of the above sentence, must certify that it has not acquired the senior debt security for purposes of resale directly or indirectly to a United States person or to a person within the United States or its possessions. In the case of a bearer security in permanent global form, such certification must be given in connection with notation of a beneficial owner's interest therein. (Section 303) See "Temporary Global Securities."

Senior debt securities may be presented for exchange as follows:

- . Registered securities will be exchangeable for other registered securities of the same series.
- . If senior debt securities have been issued as both registered securities and bearer securities, subject to certain conditions, holders may exchange bearer securities for registered securities of the same series of any authorized denominations and of a like aggregate principal amount and tenor.
- . Bearer securities surrendered in exchange for registered securities between a regular record date or a special record date and the relevant date for payment of interest must be surrendered without the coupon relating to such date for payment of interest and interest will not be payable in respect of the registered security issued in exchange for such bearer security, but will be payable only to the holder of such coupon when due in accordance with the terms of the indenture.
- . Bearer securities will not be issued in exchange for registered securities.
- . Each bearer security other than a temporary global bearer security will bear a legend substantially to the following effect: "Any United States Person who holds this obligation will be subject to limitations under the United States income tax laws, including the limitations provided in Sections 165(j) and 1287(a) of the Internal Revenue Code."

Registered securities may be presented for registration of transfer, with the form of transfer endorsed thereon duly executed, if so required by Alcoa or the trustee or any transfer agent, at the office of the security registrar or at the office of any transfer agent designated by Alcoa for that purpose with respect to any series of senior debt securities and referred to in the applicable prospectus supplement, without service charge and upon payment of any taxes and other governmental charges as described in the indenture. Any transfer or exchange

will be effected once the security registrar or transfer agent, as the case may be, is satisfied with the documents of title and identity of the person making the request. (Section 305)

If a prospectus supplement refers to any transfer agents, in addition to the security registrar, initially designated by Alcoa with respect to any series of senior debt securities, Alcoa may at any time rescind the designation of any additional transfer agent or approve a change in the location through which any transfer agent acts. If senior debt securities of a series are issuable solely as registered securities, Alcoa will be required to maintain a transfer agent in each place of payment for the series. If senior debt securities of a series are issuable as bearer securities, Alcoa will be required to maintain, in addition to the security registrar, a transfer agent in a place of payment for the series located outside the United States. Alcoa may at any time designate additional transfer agents with respect to any series of senior debt securities. (Section 1002)

If debt securities of a series are redeemed in part, Alcoa will not be required to:

- . issue, register the transfer of or exchange senior debt securities of the series during a period beginning at the opening of business 15 days before any selection of senior debt securities of that series to be redeemed and ending at the close of business on:
 - . if senior debt securities of the series are issuable only as registered securities, the day of mailing of the relevant notice of redemption, and
 - . if senior debt securities of the series are issuable as bearer securities, the day of the first publication of the relevant notice of redemption or, if senior debt securities of the series are also issuable as registered securities and there is no publication, the mailing of the relevant notice of redemption;
- . register the transfer of or exchange any registered security, or portion thereof, called for redemption, except the unredeemed portion of any registered security being redeemed in part; or
- . exchange any bearer security called for redemption, except to exchange such bearer security for a registered security of that series and like tenor which is immediately surrendered for redemption. (Section 305)

Payment and Paying Agents

Unless otherwise indicated in an applicable prospectus supplement, payment of principal of and any premium and interest on registered securities will be made at the office of the paying agent(s) designated by Alcoa from time to time. At the option of Alcoa, payment of any interest may instead be made by check mailed to the address of the person entitled thereto as such address appears in the security register. Unless otherwise indicated in an applicable prospectus supplement, payment of any installment of interest on registered securities will be made to the person in whose name the registered security is registered at the close of business on the regular record date for that interest. (Section 307)

Unless otherwise indicated in an applicable prospectus supplement, payment of principal of and any premium and interest on bearer securities will be payable, subject to any applicable laws and regulations, at the offices of paying agents outside the United States as Alcoa may designate from time to time by check or by transfer, at the option of the holder, to an account maintained by the payee with a bank located outside the United States. Unless otherwise indicated in an applicable prospectus supplement, payment of interest on bearer securities on any interest payment date will be made only against surrender outside the United States, to the paying agent, of the coupon relating to that interest payment date. (Section 1001) No payment with respect to any bearer security will be made at any office or agency of Alcoa in the United States or by check mailed to any address in the United States or by transfer to an account maintained with a bank located in the United States. Notwithstanding the foregoing, payments of principal of and any premium and interest on bearer securities denominated and payable in U.S. dollars will be made at the office of Alcoa's paying agent in the Borough of Manhattan, the City of New York, if, but only if, payment of the full amount thereof in U.S. dollars

at all offices or agencies outside the United States is illegal or effectively precluded by exchange controls or other similar restrictions. (Section 1002)

Unless otherwise indicated in an applicable prospectus supplement, the corporate trust office of the trustee in Pittsburgh, Pennsylvania will be designated as a paying agent for Alcoa for payments with respect to senior debt securities which are issuable solely as registered securities. Alcoa will maintain a paying agent outside of the United States for payments with respect to senior debt securities, subject to the limitations described above on bearer securities, which are issuable solely as bearer securities, or as both registered securities and bearer securities. Any paying agents outside the United States and any other paying agents in the United States initially designated by Alcoa for the senior debt securities will be named in an applicable prospectus supplement. Alcoa may at any time designate additional paying agents or rescind the designation of any paying agent or approve a change in the office through which any paying agent acts. If senior debt securities of a series are issuable solely as registered securities, Alcoa will be required to maintain a paying agent in each place of payment for the series. If senior debt securities of a series are issuable as bearer securities, Alcoa will be required to maintain:

- . a paying agent in the Borough of Manhattan, the City of New York, for payments with respect to any registered securities of the series and for payments with respect to bearer securities of the series in the circumstances described above, but not otherwise; and
- . a paying agent in a place of payment located outside the United States where senior debt securities of the series and any coupons appertaining thereto may be presented and surrendered for payment. If the senior debt securities of such series are listed on The Stock Exchange of the United Kingdom and the Republic of Ireland or the Luxembourg Stock Exchange or any other stock exchange located outside the United States and such stock exchange so requires, Alcoa will maintain a paying agent in London or Luxembourg or any other required city located outside the United States, as the case may be, for the senior debt securities of such series. (Section 1002)

All moneys paid by Alcoa to a paying agent for the payment of principal of and any premium or interest on any senior debt security which remain unclaimed at the end of two years after such principal, premium or interest becomes due and payable will be repaid to Alcoa. Thereafter, the holder of any such senior debt security or any coupon may look only to Alcoa for payment. (Section 1003)

Book-Entry Securities

The senior debt securities of a series may be issued in the form of one or more registered securities that will be registered in the name of a depository or its nominee and bear a legend as specified in the indenture. These senior debt securities will be known as book-entry securities. Unless otherwise indicated in the applicable prospectus supplement, a book-entry security may not be registered for transfer or exchange to any person other than the depository or its nominee unless:

- . the depository notifies Alcoa that it is unwilling to continue as depository or ceases to be a clearing agency registered under the Exchange Act;
- . Alcoa executes and delivers to the trustee a company order that the transfer or exchange of the book-entry security will be registrable; or
- . there has occurred and is continuing an event of default, or an event that after notice or lapse of time, or both, would be an event of default, with respect to the senior debt securities evidenced by the book-entry security.

Upon the occurrence of any of the conditions specified above or other conditions as may be specified as contemplated by the indenture, the book-entry security may be exchanged for senior debt securities of the series registered in the names of, and the transfer of the book-entry security may be registered to, such persons, including persons other than the depository with respect to such series and its nominees, as the depository may direct.

The specific terms of the depositary arrangement with respect to any portion of a series of registered book-entry securities to be represented by a book-entry security will be described in the applicable prospectus supplement. Alcoa expects that the following provisions will apply to depositary arrangements.

Unless otherwise specified in the applicable prospectus supplement, senior debt securities that are to be represented by a book-entry security to be deposited with or on behalf of a depository will be represented by a book-entry security registered in the name of the depository or its nominee. Upon the issuance of a book-entry security, and the deposit of the book-entry security with or on behalf of the depository, the depository will credit, on its book-entry registration and transfer system, the respective principal amounts of the senior debt securities represented by the book-entry security to the accounts of institutions that have accounts with the depository or its nominee. The accounts to be credited will be designated by the underwriters or agents of the senior debt securities or by Alcoa if the senior debt securities are offered and sold directly by Alcoa. Ownership of beneficial interests in a book-entry security will be limited to the institutions that have accounts with the depository or persons that may hold interests through the institutions. Ownership of beneficial interests by the institutions in the book-entry security will be shown on, and the transfer of that ownership interest will be effected only through, records maintained by the depository or its nominee for the book-entry security. Ownership of beneficial interests in the book-entry security by persons that hold through the institutions will be shown on, and the transfer of that ownership interest within the institution will be effected only through, records maintained by that institution. The laws of some jurisdictions require that certain purchasers of securities take physical delivery of securities in certificated form. The foregoing limitations and such laws may impair the ability to transfer beneficial interests in book-entry securities.

So long as the depository for a book-entry security, or its nominee, is the registered owner of that book-entry security, the depository or nominee, as the case may be, will be considered the sole owner or holder of the senior debt securities represented by the book-entry security for all purposes under the indenture. Unless otherwise specified in the applicable prospectus supplement, owners of beneficial interests in a book-entry security:

- . will not be entitled to have senior debt securities of the series registered in their names;
- . will not receive or be entitled to receive physical delivery of senior debt securities in certificated form; and
- . will not be considered the holders of debt securities for any purposes under the indenture. (Sections 204 and 305)

Accordingly, each person owning a beneficial interest in a book-entry security must rely on the procedures of the depository and, if such person does not have an account with the depository, on the procedures of the institution through which such person owns its interest, to exercise any rights of a holder under the indenture. The indenture provides that the depository may grant proxies and otherwise authorize participants to give or take any request, demand, authorization, direction, notice, consent, waiver or other action that a holder is entitled to give or take under the indenture. (Section 104) Alcoa understands that under existing industry practices, if Alcoa requests any action of holders, or if an owner of a beneficial interest in such book-entry security desires to give any notice or take any action a holder is entitled to give or take under the indenture, the depository would authorize the participants to give such notice or take such action, and participants would authorize beneficial owners owning through such participants to give such notice or take such action or would otherwise act upon the instructions of beneficial owners owning through them.

Temporary Global Securities

If so specified in an applicable prospectus supplement, all or any portion of the senior debt securities of a series that are issuable as bearer securities may initially be represented by one or more temporary global senior debt securities, without interest coupons, to be deposited with a common depository in London for the Euroclear System ("Euroclear") and Clearstream Luxembourg for credit to the designated accounts. On and

after the date determined as provided in any temporary global senior debt security and described in an applicable prospectus supplement, each temporary global senior debt security will be exchanged for an interest in a permanent global bearer security as specified in an applicable prospectus supplement, but, unless otherwise specified in an applicable prospectus supplement, only upon receipt of:

- . written certification from Euroclear or Clearstream Luxembourg, as the case may be, in the form and to the effect required by the indenture (a "Depository Tax Certification"); and
- . written certification by Euroclear or Clearstream Luxembourg from the person entitled to receive such senior debt securities in the form and to the effect described under "Form, Exchange, Registration and Transfer."

No definitive bearer security, including a senior debt security in permanent global form that is either a bearer security or exchangeable for bearer securities, delivered in exchange for a portion of a temporary or permanent global senior debt security may be mailed or otherwise delivered to any location in the United States in connection with such exchange. (Section 304)

Unless otherwise specified in an applicable prospectus supplement, interest in respect of any portion of a temporary global senior debt security payable in respect of an interest payment date occurring before the issuance of securities in permanent global form will be paid to each of Euroclear and Clearstream Luxembourg with respect to the portion of the temporary global senior debt security held for its account following the receipt by Alcoa or its agent of a Depository Tax Certification. Each of Euroclear and Clearstream Luxembourg will undertake in such circumstances to credit such interest received by it in respect of a temporary global senior debt security to the respective accounts for which it holds such temporary global senior debt security only upon receipt in each case of certification in the form and to the effect described under "Form, Exchange, Registration and Transfer" with respect to the portion of such temporary global senior debt security on which such interest is to be so credited. Receipt of the certification described in the preceding sentence by Euroclear or Clearstream Luxembourg, as the case may be, will constitute irrevocable instructions to Euroclear or Clearstream Luxembourg to exchange such portion of the temporary global senior debt security with respect to which such certification was received for an interest in a permanent global senior debt security.

Permanent Global Securities

If any senior debt securities of a series are issuable in permanent global form, the applicable prospectus supplement will describe any circumstances under which beneficial owners of interests in any such permanent global senior debt security may exchange their interests for senior debt securities of the series and of like tenor and principal amount in any authorized form and denomination. No bearer security delivered in exchange for a portion of a permanent global senior debt security may be mailed or otherwise delivered to any location in the United States in connection with the exchange. (Section 305)

A person having a beneficial interest in a permanent global senior debt security will, except with respect to payment of principal of and any premium and interest on the permanent global senior debt security, be treated as a holder of the principal amount of outstanding senior debt securities represented by the permanent global senior debt security as is specified in a written statement of:

- . the holder of the permanent global senior debt security, or
- . in the case of a permanent global senior debt security in bearer form, the operator of Euroclear or Clearstream Luxembourg,

which is produced to the trustee by such person. (Section 203) Principal of and any premium and interest on a permanent global senior debt security will be payable in the manner described in the applicable prospectus supplement.

Certain Limitations

The indenture contains the covenants and limitations summarized below. These covenants and limitations will be applicable, unless waived or amended, so long as any of the senior debt securities are outstanding, unless stated otherwise in the prospectus supplement.

Liens. Alcoa covenants that it will not create, incur, assume or guarantee, and will not permit any Restricted Subsidiary to create, incur, assume or guarantee, any indebtedness for borrowed money secured by a mortgage, security interest, pledge, charge or similar encumbrance ("mortgages") upon any Principal Property of Alcoa or any Restricted Subsidiary or upon any shares of stock or indebtedness of any Restricted Subsidiary without equally and ratably securing the senior debt securities. The foregoing restriction, however, will not apply to:

- . mortgages on property, shares of stock or indebtedness of any corporation existing at the time such corporation becomes a Restricted Subsidiary;
- . mortgages on property existing at the time of acquisition of such property by Alcoa or a Restricted Subsidiary or mortgages to secure the payment of all or any part of the purchase price of such property upon the acquisition or to secure any indebtedness incurred before, at the time of, or within 180 days after, the acquisition of such property for the purpose of financing all or any part of the purchase price thereof, or mortgages to secure the cost of improvements to such acquired property;
- . mortgages to secure indebtedness of a Restricted Subsidiary to Alcoa or another Restricted Subsidiary;
- . mortgages existing at the date of the indenture;
- . mortgages on property of a corporation existing at the time such corporation is merged into or consolidated with Alcoa or a Restricted Subsidiary or at the time of a sale, lease, or other disposition of the properties of a corporation as an entirety or substantially as an entirety to Alcoa or a Restricted Subsidiary;
- . certain mortgages in favor of governmental entities; or
- . extensions, renewals or replacements of any mortgage referred to in the above listed exceptions. (Section 1009)

Notwithstanding the restrictions outlined in the preceding paragraph, Alcoa or any Restricted Subsidiary will be permitted to create, incur, assume or guarantee any indebtedness secured by a mortgage without equally and ratably securing the senior debt securities, if after giving effect thereto, the aggregate amount of all indebtedness so secured by mortgages, not including mortgages permitted under the listed exceptions above, does not exceed 10% of Consolidated Net Tangible Assets. (Section 1009)

Sale and Leaseback Arrangements. Alcoa covenants that it will not, nor will it permit any Restricted Subsidiary to, enter into any arrangement with any person providing for the leasing to Alcoa or any Restricted Subsidiary of Principal Property, where such Principal Property has been or is to be sold or transferred by Alcoa or such Restricted Subsidiary to such person, unless either:

- . Alcoa or such Restricted Subsidiary would be entitled to create, incur, assume or guarantee indebtedness secured by a mortgage on such Principal Property at least equal in amount to the Attributable Debt with respect to such arrangement, without equally and ratably securing the senior debt securities pursuant to the limitation in the indenture on liens; or
- . Alcoa applies an amount equal to the greater of the net proceeds of such sale or the Attributable Debt with respect to such arrangement to the retirement of indebtedness that matures more than twelve months after the creation of such indebtedness.

This restriction on sale and leaseback transactions does not apply to any transaction:

- . involving a lease for a term of not more than three years; or
- . between Alcoa and a Restricted Subsidiary or between Restricted Subsidiaries. (Section 1010)

Highly leveraged transactions. The indenture does not contain provisions that would afford protection to the holders of the senior debt securities in the event of a highly leveraged transaction involving Alcoa.

Certain Definitions

The following are definitions of capitalized words used in this summary. These and other definitions are set forth in their entirety in the indenture.

"Attributable Debt" when used in connection with a sale and leaseback transaction referred to above means, at the time of determination, the lesser of:

- . the fair value of such property as determined by Alcoa's board of directors; or
- . the present value, discounted at the annual rate of 9%, compounded semi-annually, of the obligation of the lessee for net rental payments during the remaining term of the lease, including any period for which such lease has been extended.

"Bearer Security" means any senior debt security established under the indenture that is payable to bearer.

"Book-entry security" means a registered security bearing the legend specified in Section 204 of the indenture, evidencing all or part of a series of senior debt securities, issued to the depository for such series or its nominee, and registered in the name of such depository or nominee. Book-entry securities will not be deemed to be securities in global form for purposes of Sections 201 and 203 and Article Three of the indenture.

"Common Stock" includes any stock of any class of Alcoa that has no preference in respect of dividends or of amounts payable in the event of any voluntary or involuntary liquidation, dissolution or winding-up of Alcoa and which is not subject to redemption by Alcoa. However, subject to the provisions of Section 1511 of the indenture, shares issuable on conversion of senior debt securities will include only shares of the class designated as common stock of Alcoa at September 30, 1993 or shares of any class or classes resulting from any reclassification or reclassifications thereof and which have no preference in respect of dividends or of amounts payable in the event of any voluntary or involuntary liquidation, dissolution or winding-up of Alcoa and which are not subject to redemption by Alcoa. If at any time there is more than one such resulting class, the shares of each such class then so issuable will be substantially in the proportion that the total number of shares of each such class resulting from all such reclassifications bears to the total number of shares of all such classes resulting from all such reclassifications.

"Consolidated Net Tangible Assets" means, as of any particular time, the aggregate amount of assets, less applicable reserves and other properly deductible items, adjusted for inventories on the basis of cost, before application of the "last-in first-out" method of determining cost, or current market value, whichever is lower, and deducting therefrom:

- . all current liabilities except for:
 - . notes and loans payable,
 - . current maturities of long-term debt, and
 - . current maturities of obligations under capital leases; and
- . all goodwill, tradenames, patents, unamortized debt discount and expenses, to the extent included in such aggregate amount of assets, and other like intangibles, all as set forth on the most recent consolidated balance sheet of Alcoa and its consolidated Subsidiaries and computed in accordance with generally accepted accounting principles.

"Principal Property" means any manufacturing plant or manufacturing facility that is:

- . owned by Alcoa or any Restricted Subsidiary; and
- . located within the continental United States of America.

However, any plant that, in the opinion of Alcoa's board of directors, is not of material importance to the total business conducted by Alcoa and the Restricted Subsidiaries taken as a whole will not constitute a Principal Property.

"Restricted Subsidiary" means any Subsidiary substantially all the property of which is located within the continental United States, but excluding any Subsidiary that:

- . is principally engaged in leasing or in financing receivables, or
- . is principally engaged in financing Alcoa's operations outside the continental United States, or
- . principally serves as a partner in a partnership.

"Subsidiary" means any corporation of which at least a majority of the outstanding stock having the voting power to elect a majority of the board of directors of such corporation as at the time is owned, directly or indirectly, by Alcoa or by one or more Subsidiaries, or by Alcoa and one or more Subsidiaries.

Events of Default

Unless otherwise provided in the applicable prospectus supplement, the following are events of default under the indenture with respect to senior debt securities:

- (a) failure to pay any interest when due, and this failure continues for 30 days;
- (b) failure to pay any principal or premium when due;
- (c) failure to deposit any sinking fund payment when due and this failure continues for 30 days;
- (d) failure to perform any other covenant of Alcoa in the indenture (other than a covenant included in the indenture solely for the benefit of a series of senior debt securities other than that series), and this failure continues for 90 days after written notice as provided in the indenture;
- (e) default resulting in acceleration of any indebtedness for money borrowed by Alcoa under the terms of the instrument(s) under which such indebtedness is issued or secured if such acceleration is not rescinded or annulled within 10 days after written notice as provided in the indenture, provided that, the resulting event of default under the indenture will be cured or waived if such other default is cured or waived;
- (f) certain events in bankruptcy, insolvency or reorganization involving Alcoa; and
- (g) any other event of default provided with respect to senior debt securities of a series. (Section 501)

If an event of default with respect to senior debt securities occurs and is continuing, either the trustee or the holders of at least 25% in aggregate principal amount of the outstanding senior debt securities of that series by notice as provided in the indenture may declare the principal amount (or, if the senior debt 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 all the senior debt securities of that series to be due and payable immediately. At any time after a declaration of acceleration with respect to senior debt securities of any series has been made, but before a judgment or decree for payment of money has been obtained by the trustee, the holders of a majority in aggregate principal amount of the outstanding senior debt securities of that series may, under certain circumstances, rescind and annul such acceleration. (Section 502)

Subject to the duty of the trustee during default to act with the required standard of care, the trustee will be under no obligation to exercise any of its rights or powers under the indenture at the request or direction of

any of the holders, unless such holders have offered to the trustee reasonable indemnity. (Sections 601 and 603) The holders of a majority in aggregate principal amount of the outstanding senior debt securities of any series will have the right to direct the time, method and place of conducting any proceeding for any remedy available to the trustee, or exercising any trust or power conferred on the trustee, with respect to the senior debt securities of that series. (Section 512)

Conversion and Exchange Rights

The senior debt securities of any series may be convertible into or exchangeable for other securities of Alcoa or another issuer on the terms and subject to the conditions set forth in the applicable prospectus supplement.

Defeasance and Covenant Defeasance

Unless otherwise indicated in the applicable prospectus supplement with respect to the senior debt securities of a series, Alcoa, at its option:

(a) will be discharged from any and all obligations in respect of the senior debt securities of that series, except for certain obligations to:

- . issue temporary senior debt securities pending preparation of definitive senior debt securities,
- . register the transfer or exchange of senior debt securities of such series,
- . replace stolen, lost or mutilated senior debt securities of such series, and
- . maintain paying agents and hold moneys for payment in trust,

or

(b) need not comply with the covenants that are set forth under "Certain Limitations" and "Consolidation, Merger and Sale of Assets," and the occurrence of an event described under clause (d) of "Events of Default" with respect to any defeased covenant and clauses (e) and (g) of "Events of Default" will no longer be events of default,

if, in each case, Alcoa irrevocably deposits with the trustee, in trust, money and/or U.S. government obligations that through the scheduled payment of interest thereon and principal thereof in accordance with their terms will provide money in an amount sufficient to pay all the principal of and any premium and interest on the senior debt securities of such series on the dates such payments are due, which may include one or more redemption dates designated by Alcoa, in accordance with the terms of the indenture and the senior debt securities. (Sections 1301, 1302, 1303 and 1304) The trust may only be established if, among other things:

- . no event of default, or event that with the giving of notice or lapse of time, or both, would become an event of default, under the indenture has occurred and is continuing on the date of such deposit, and no event of default, or event that with the giving of notice or lapse of time, or both, would become an event of default, under clause (f) of "Events of Default" has occurred and is continuing at any time during the period ending on the 91st day following such date of deposit, and
- . Alcoa has delivered an opinion of counsel based, in the event of a defeasance of the type described in clause (a) above, upon a ruling from the Internal Revenue Service or a change in applicable Federal income tax law from the date of the indenture, to the effect that the holders of the senior debt securities will not recognize income, gain or loss for Federal income tax purposes as a result of such deposit or defeasance and will be subject to Federal income tax in the same manner as if such defeasance had not occurred. (Section 1304)

If Alcoa omits to comply with its remaining obligations under the indenture after a defeasance of the indenture with respect to the senior debt securities of any series as described under clause (b) above and the senior debt

securities of such series are declared due and payable because of the occurrence of any undefeased event of default, the amount of money and/or U.S. government obligations on deposit with the trustee may be insufficient to pay amounts due on the senior debt securities of such series at the time of the acceleration resulting from such event of default. However, Alcoa will remain liable in respect of such payments.

Meetings, Modification and Waiver

Alcoa and the trustee may make modifications and amendments of the indenture with the consent of the holders of not less than 66 2/3% in aggregate principal amount of the outstanding senior debt securities of each series affected by the modification or amendment. However, Alcoa and the trustee may not make any of the following modifications or amendments without the consent of the holder of each outstanding senior debt security affected:

- . change the Stated Maturity of the principal of, or any installment of principal of or interest on, any senior debt security;
- . reduce the principal amount of, or premium or interest on, any senior debt security;
- . change any obligation of Alcoa to pay additional amounts;
- . reduce the amount of principal of an original issue discount security payable upon acceleration of the maturity thereof;
- . change the coin or currency in which any senior debt security or any premium or interest thereon is payable;
- . impair the right to institute suit for the enforcement of any payment on or with respect to any senior debt security;
- . reduce the percentage in principal amount of outstanding senior debt securities of any series, the consent of whose holders is required for modification or amendment of the indenture or for waiver of compliance with certain provisions of such indenture or for waiver of certain defaults;
- . reduce the requirements contained in the indenture for quorum or voting;
- . change any obligation of Alcoa to maintain an office or agency in the places and for the purposes required by the indenture; or
- . modify any of the above provisions. (Section 902)

The holders of at least 66 2/3% of the outstanding senior debt securities of a series may waive compliance by Alcoa with certain restrictive provisions of the indenture. (Section 1012) The holders of not less than a majority in aggregate principal amount of the outstanding senior debt securities of each series may, on behalf of all holders of senior debt securities of that series and any coupons appertaining thereto, waive any past default under the indenture with respect to senior debt securities of that series, except a default:

- . in the payment of principal of, or any premium or interest on, any senior debt security of the series; and
- . in respect of a covenant or provision of the indenture that cannot be modified or amended without the consent of the holder of each outstanding senior debt security of the series affected. (Section 513)

In determining whether the holders of the requisite principal amount of the outstanding senior debt securities have given any request, demand, authorization, direction, notice, consent or waiver thereunder or are present at a meeting of holders of senior debt securities for quorum purposes:

- . the principal amount of an original issue discount security that will be deemed to be outstanding will be the amount of its principal that would be due and payable as of the date of such determination upon acceleration of its maturity;

- . the principal amount of a senior debt security denominated in a foreign currency or currencies will be the U.S. dollar equivalent, determined on the date of original issuance of that security, of the principal amount of the senior debt security (or, in the case of an original issue discount security, the U.S. dollar equivalent, determined on the date of original issuance of the senior debt security, of the amount determined as provided above); and
- . senior debt securities owned by Alcoa or an affiliate of Alcoa will not be deemed outstanding. (Section 101)

The indenture contains provisions for convening meetings of the holders of senior debt securities of a series if senior debt securities of that series are issuable as bearer securities. (Section 1401) A meeting may be called at any time by the trustee, and also, upon request, by Alcoa or the holders of at least 10% in principal amount of the outstanding senior debt securities of a series, in any case upon notice given in accordance with "Notices" below. (Section 1402) To be entitled to vote at any meeting of holders of senior debt securities of any series, a person must be:

- . a holder of one or more outstanding senior debt securities of the series; or
- . a person appointed by an instrument in writing as proxy of a holder, including proxies given to beneficial owners of book-entry securities by the depository or its nominee. (Section 1403)

Except for any consent that must be given by the holder of each outstanding senior debt security affected thereby, as described above,

- . any resolution presented at a meeting or adjourned meeting at which a quorum is present may be adopted by the affirmative vote of the holders of a majority in principal amount of the outstanding senior debt securities of that series;
- . any resolution with respect to any consent or waiver that may be given by the holders of not less than 66 2/3% in principal amount of the outstanding senior debt securities of a series may be adopted at a meeting or an adjourned meeting at which a quorum is present only by the affirmative vote of 66 2/3% in principal amount of the outstanding senior debt securities of that series; and
- . any resolution with respect to any request, demand, authorization, direction, notice, consent, waiver or other action that may be made, given or taken by the holders of a specified percentage, which is less than a majority, in principal amount of outstanding senior debt securities of a series may be adopted at a meeting or adjourned meeting duly reconvened at which a quorum is present by the affirmative vote of the holders of such specified percentage in principal amount of the outstanding senior debt securities of that series.

Any resolution passed or decision taken at any meeting of holders of senior debt securities of any series duly held in accordance with the indenture will be binding on all holders of senior debt securities of that series and the related coupons.

The quorum at any meeting called to adopt a resolution, and at any reconvened meeting, will be persons holding or representing a majority in principal amount of the outstanding senior debt securities of a series; provided, however, that if any action is to be taken at such meeting with respect to a consent or waiver that may be given by the holders of not less than 66 2/3% in principal amount of the outstanding senior debt securities of a series, the persons holding or representing 66 2/3% in principal amount of the outstanding senior debt securities of such series will constitute a quorum. (Section 1404)

Consolidation, Merger and Sale of Assets

Alcoa may, without the consent of the holders of any of the outstanding senior debt securities under the indenture, consolidate or merge with or into, or transfer or lease its assets substantially as an entirety to, any person that is a corporation, partnership or trust organized and validly existing under the laws of any domestic

jurisdiction, or may permit any such person to consolidate with or merge into Alcoa or convey, transfer or lease its properties and assets substantially as an entirety to Alcoa, provided that:

- . any successor person assumes Alcoa's obligations on the senior debt securities and under the indenture;
- . after giving effect to the transaction, no event of default, and no event that, after notice or lapse of time, would become an event of default, has occurred and is continuing; and
- . certain other conditions are met. (Section 801)

Notices

Except as otherwise provided in the indenture, notices to holders of bearer securities will be given by publication at least twice in a daily newspaper in the City of New York and in such other city or cities as may be specified in such senior debt securities and described in the applicable prospectus supplement. Notices to holders of registered securities will be given by mail to the addresses of such holders as they appear in the security register. (Sections 101 and 106)

Title

Title to any bearer securities and any coupons will pass by delivery. Alcoa, the trustee and any agent of Alcoa or the trustee may treat the bearer of any bearer security and the bearer of any coupon and the registered owner of any registered security as the absolute owner thereof, whether or not the senior debt security or coupon is overdue and notwithstanding any notice to the contrary, for the purpose of making payment and for all other purposes. (Section 308)

Replacement of Securities and Coupons

Alcoa will replace any mutilated senior debt security or a senior debt security with a mutilated coupon at the expense of the holder upon surrender of the senior debt security to the security registrar.

Alcoa will replace senior debt securities or coupons that become destroyed, stolen or lost at the expense of the holder upon delivery to the trustee of the senior debt security and coupons or evidence of the destruction, loss or theft thereof satisfactory to Alcoa and the trustee. If any coupon becomes destroyed, stolen or lost, that coupon will be replaced by issuance of a new senior debt security in exchange for the senior debt security to which that coupon is attached. In the case of a destroyed, lost or stolen senior debt security or coupon, an indemnity satisfactory to the trustee and Alcoa may be required at the expense of the holder of such senior debt security or coupon before a replacement senior debt security will be issued. (Section 306)

Governing Law

The indenture, the senior debt securities and the coupons will be governed by, and construed in accordance with, the laws of the Commonwealth of Pennsylvania, except to the extent that the Trust Indenture Act applies. (Section 113)

Regarding the Trustee

Chase Manhattan Trust Company, N.A. is the trustee under the indenture. Alcoa and certain of its subsidiaries maintain deposit accounts and conduct other banking transactions, including borrowings in the ordinary course of business, with Chase Manhattan Trust Company, N.A. or its affiliates.

DESCRIPTION OF SUBORDINATED DEBT SECURITIES

The following description sets forth certain general terms and provisions of the subordinated debt securities that Alcoa may offer. The particular terms of the subordinated debt securities and the extent, if any, to which the general provisions may apply to the subordinated debt securities will be described in the related prospectus supplement.

The subordinated debt securities may be issued under an indenture between Alcoa and Chase Manhattan Trust Company, N.A., as trustee, or such other trustee that is named in a prospectus supplement. The form of the indenture has been filed with the SEC as an exhibit to the registration statement of which this prospectus is a part. The following summary of certain provisions of the indenture and the subordinated debt securities is not meant to be complete. For more information, you should refer to the full text of the indenture and the subordinated debt securities, including the definitions of terms used and not defined in this prospectus or the related prospectus supplement.

General

The subordinated debt securities will be unsecured and will rank junior and be subordinate in right of payment to all Senior Debt (as defined below) of Alcoa. The indenture does not limit the incurrence or issuance of other secured or unsecured debt of Alcoa, whether under the indenture or any existing or other indenture that Alcoa may enter into in the future or otherwise. See "Subordination."

The subordinated debt securities will not be subject to any sinking fund provision.

A prospectus supplement will describe the following terms of the subordinated debt securities Alcoa may offer:

- . the specific designation, aggregate principal amount and purchase price;
- . any limit on the aggregate principal amount;
- . the date(s) on which the principal is payable and any right to extend such date(s);
- . any rate(s) at which the subordinated debt securities will bear interest or the method of calculating any interest rate(s);
- . the date(s) from which interest will accrue, the interest payment dates on which interest will be payable or the manner of determination of interest payment dates and the record dates for the determination of holders to whom interest is payable on any interest payment dates;
- . any right to defer payments of interest by extending the interest payment periods and the duration of such extensions;
- . the period(s) within which, the price(s) at which, and the terms and conditions upon which, the subordinated debt securities may be redeemed, in whole or in part, at the option of Alcoa;
- . any obligation of Alcoa to redeem or purchase the subordinated debt securities at the option of the holder thereof and the period(s) within which, the price(s) at which, and the terms and conditions upon which, the subordinated debt securities will be redeemed or purchased, in whole or part, under such obligation;

- . any applicable United States Federal income tax consequences, including whether and under what circumstances Alcoa will pay additional amounts on the subordinated debt securities held by a person who is not a U.S. person in respect of any tax, assessment or governmental charge withheld or deducted and, if so, whether Alcoa will have the option to redeem the subordinated debt securities rather than pay such additional amounts;
- . the form of the subordinated debt securities;
- . if other than denominations of \$1,000 or any integral multiple thereof, the denominations in which the subordinated debt securities will be issuable;
- . any and all other terms, including any modifications of or additions to the events of default or covenants, and any terms that may be required by or advisable under applicable laws or regulations not inconsistent with the indenture;
- . the terms and conditions upon which the subordinated debt securities may be convertible into or exchanged for other securities of Alcoa or another issuer; and
- . whether the subordinated debt securities are issuable as a global security, and in such case, the identity of the depository.

Unless otherwise indicated in the applicable prospectus supplement, the subordinated debt securities will be issued in United States dollars in fully registered form without coupons. No service charge will be made for any transfer or exchange of any subordinated debt securities, but Alcoa may require payment of a sum sufficient to cover any tax or other governmental charge payable in connection with a transfer or exchange.

Global Securities

If any subordinated debt securities are represented by one or more global securities, the applicable prospectus supplement will describe any circumstances under which beneficial owners of interests in any global security may exchange those interests for subordinated debt securities of like tenor and principal amount in any authorized form and denomination. Principal of, and any premium and interest on, a global security will be payable in the manner described in the applicable prospectus supplement.

The specific terms of the depository arrangement regarding any portion of subordinated debt securities to be represented by a global security will be described in the applicable prospectus supplement.

Payment and Paying Agents

Payments on subordinated debt securities represented by a global security will be made to the depository for the subordinated debt securities. If subordinated debt securities are issued in definitive form, then the following will take place at the corporate office of the trustee in Pittsburgh, Pennsylvania or at the office of such paying agent(s) as Alcoa may designate:

- . payment of principal of and any premium and interest on the subordinated debt securities;
- . registration of the transfer of the subordinated debt securities; and
- . the exchange of the subordinated debt securities into subordinated debt securities of other denominations of a like aggregate principal amount.

However, at the option of Alcoa, payment of any interest may be made:

- . by check mailed to the address of the person entitled thereto as such address appears in the securities register; or
- . by wire transfer to an account maintained by the person entitled thereto as specified in the securities register, provided that proper transfer instructions have been received by the regular record date.

Payment of any interest on subordinated debt securities will be made to the person in whose name the subordinated debt securities are registered at the close of business on the regular record date for the interest, except in the case of defaulted interest. Unless otherwise set forth in the applicable prospectus supplement, the regular record date for the interest payable on any interest payment date will be the 15th day, whether or not a business day, next preceding such interest payment date. Alcoa may at any time designate additional paying agents or rescind the designation of any paying agent. (Section 2.3)

Any monies deposited with the trustee or any paying agent or then held by Alcoa in trust for the payment of the principal of and any premium or interest on any subordinated debt securities and remaining unclaimed for two years after such principal and premium, if any, or interest has become due and payable will, at the request of Alcoa, be repaid to Alcoa. Thereafter, the holder of such subordinated debt securities may look, as a general unsecured creditor, only to Alcoa for payment. (Section 10.3)

Modification of Indenture

Alcoa and the trustee may, without the consent of the holders of subordinated debt securities, amend, waive or supplement the indenture for specified purposes, including, among other things:

- . curing ambiguities, defects or inconsistencies, provided that any such action does not materially adversely affect the interest of the holders of the subordinated debt securities; and
- . qualifying, or maintaining the qualification of, the indenture under the Trust Indenture Act. (Section 9.1)

Alcoa and the trustee may, with the consent of the holders of not less than a majority in principal amount of the outstanding subordinated debt securities, modify the indenture in a manner affecting the rights of the holders of the subordinated debt securities. However, no such modification may, without the consent of the holder of each outstanding subordinated debt security so affected:

- . change the stated maturity of the subordinated debt securities;
- . reduce the principal amount thereof;
- . reduce the rate or extend the time of payment of interest thereon, other than deferrals of the payments of interest during any extension period as described in any applicable prospectus supplement;
- . reduce the premium payable upon redemption;
- . impair any right to institute suit for the enforcement of any such payment;
- . adversely affect the subordination provisions of the indenture or any right to convert or exchange any subordinated debt securities; or
- . reduce the percentage of principal amount of subordinated debt securities, the holders of which are required to consent to any such modification of the indenture. (Section 9.2)

Events of Default

Any one or more of the following described events that has occurred and is continuing constitutes an event of default with respect to the subordinated debt securities:

- (a) failure for 30 days to pay any interest when due (subject to the deferral of any due date in the case of an extension period);

- (b) failure to pay any principal or premium when due whether at maturity, upon redemption, by declaration or otherwise;
- (c) failure by Alcoa to deliver securities upon an appropriate election by holders of subordinated debt securities to convert their subordinated debt securities into those securities;
- (d) failure to observe or perform certain other covenants contained in the indenture for 90 days after written notice to Alcoa from the trustee or to the trustee and Alcoa from the holders of at least 25% in aggregate outstanding principal amount of the subordinated debt securities; or
- (e) certain events in bankruptcy, insolvency or reorganization of Alcoa. (Section 5.1)

The holders of a majority in aggregate outstanding principal amount of the subordinated debt securities of any series will have the right to direct the time, method and place of conducting any proceeding for any remedy available to the trustee or exercising any trust or power conferred on the trustee consistent with the indenture with respect to the subordinated debt securities of that series. (Section 5.12) If an event of default with respect to subordinated debt securities occurs and is continuing, either the trustee or the holders of not less than 25% in aggregate principal amount of the outstanding subordinated debt securities of that series may declare the principal of all of the subordinated debt securities of that series due and payable immediately. At any time after a declaration of acceleration with respect to subordinated debt securities of any series has been made, but before a judgment or decree for payment of money has been obtained by the trustee, the holders of a majority in aggregate outstanding principal amount of the subordinated debt securities of that series may annul and rescind such declaration if the default, other than the non-payment of the principal of the subordinated debt securities which has become due solely by such acceleration, has been cured or waived, and a sum sufficient to pay all matured installments of interest and principal due, otherwise than by acceleration, has been deposited with the trustee. (Section 5.2)

The holders of a majority in aggregate outstanding principal amount of the subordinated debt securities of any series may, on behalf of the holders of all the subordinated debt securities of that series, waive any past default under the indenture with respect to that series. However, they may not waive:

- . a default in the payment of principal or interest, unless such default has been cured and a sum sufficient to pay all matured installments of interest and principal due otherwise than by acceleration has been deposited with the trustee; or
- . a default in respect of a covenant or provision that under the indenture cannot be modified or amended without the consent of the holder of each outstanding subordinated debt security. (Section 5.13)

Alcoa is required to file annually with the trustee a certificate as to whether or not Alcoa is in compliance with all the conditions and covenants applicable to it under the indenture. (Section 10.5)

Consolidation, Merger, Sale of Assets and Other Transactions

Alcoa may not consolidate with or merge into any other person or convey, transfer or lease its properties and assets substantially as an entirety to any person, and no person may consolidate with or merge into Alcoa or convey, transfer or lease its properties and assets substantially as an entirety to Alcoa, unless:

- . if Alcoa consolidates with or merges into another person or conveys, transfers or leases its properties and assets substantially as an entirety to any person, the successor person is organized under the laws of the United States or any state or the District of Columbia, and such successor person expressly assumes Alcoa's obligations on the subordinated debt securities and under the indenture;
- . immediately after giving effect thereto, no event of default, and no event that, after notice or lapse of time or both, would become an event of default, has happened and is continuing; and
- . certain other conditions as prescribed in the indenture are met. (Section 8.1)

Highly Leveraged Transactions

The general provisions of the indenture do not afford holders of the subordinated debt securities protection in the event of a highly leveraged or other transaction involving Alcoa that may adversely affect holders of the subordinated debt securities.

Satisfaction and Discharge

The indenture will cease to be of further effect, and Alcoa will be deemed to have satisfied and discharged the indenture, when, among other things:

- . all subordinated debt securities not previously delivered to the trustee for cancellation have become due and payable or will become due and payable at their stated maturity within one year or are to be properly called for redemption within one year; and
- . Alcoa irrevocably deposits or causes to be deposited with the trustee as trust funds money and/or U.S. government obligations sufficient to pay and discharge the entire indebtedness on the subordinated debt securities for the principal and any premium, interest and other sums payable under the indenture on the dates such payments are due. (Section 4.1)

Subordination

Any subordinated debt securities issued under the indenture will be subordinate and junior in right of payment to all Senior Debt (as defined below) of Alcoa whether existing at the date of the indenture or subsequently incurred. Upon any payment or distribution of assets of Alcoa to creditors upon any:

- . liquidation;
- . dissolution;
- . winding-up;
- . reorganization;
- . assignment for the benefit of creditors;
- . marshaling of assets or any bankruptcy;
- . insolvency; or
- . debt restructuring or similar proceedings in connection with any insolvency or bankruptcy proceeding of Alcoa,

the holders of Senior Debt will first be entitled to receive payment in full of principal of and any premium and interest on such Senior Debt before the holders of the subordinated debt securities will be entitled to receive or retain any payment in respect of the principal of and any premium or interest on the subordinated debt securities. (Sections 12.1 and 12.2)

Upon the acceleration of the maturity of any subordinated debt securities, the holders of all Senior Debt outstanding at the time of such acceleration will first be entitled to receive payment in full of all amounts due thereon, including any amounts due upon acceleration, before the holders of subordinated debt securities will be entitled to receive or retain any payment in respect of the principal of or any premium or interest on the subordinated debt securities. (Section 12.1)

No payments on account of principal, or any premium or interest, in respect of the subordinated debt securities may be made if:

- . there has occurred and is continuing a default in any payment with respect to Senior Debt;

- . there has occurred and is continuing an event of default with respect to any Senior Debt resulting in the acceleration of the maturity thereof; or
- . any judicial proceeding is pending with respect to any such default or event of default with respect to any Senior Debt. (Section 12.3)

"Debt" means, with respect to any person, whether recourse is to all or a portion of the assets of such person and whether or not contingent:

- . every obligation of such person for money borrowed;
- . every obligation of such person evidenced by bonds, debentures, notes or other similar instruments, including obligations incurred in connection with the acquisition of property, assets or businesses;
- . every reimbursement obligation of such person with respect to letters of credit, bankers' acceptances or similar facilities issued for the account of such person;
- . every obligation of such person issued or assumed as the deferred purchase price of property or services, but excluding trade accounts payable or accrued liabilities arising in the ordinary course of business;
- . every capital lease obligation of such person; and
- . every obligation of the type referred to above of another person and all dividends of another person the payment of which, in either case, such person has guaranteed or for which such person is responsible or liable, directly or indirectly, as obligor or otherwise.

"Senior Debt" means the principal of, and any premium and interest, including interest accruing on or after the filing of any petition in bankruptcy or for reorganization relating to Alcoa, whether or not such claim for post-petition interest is allowed in such proceeding, on Debt of Alcoa, whether incurred on, before or after the date of the indenture, unless the instrument creating or evidencing the Debt or under which the Debt is outstanding provides that obligations created by it are not superior in right of payment to the subordinated debt securities.

The indenture will place no limitation on the amount of additional Senior Debt that may be incurred by Alcoa.

Governing Law

The indenture and the subordinated debt securities will be governed by and construed in accordance with the laws of the State of New York, except to the extent that the Trust Indenture Act applies. (Section 1.12)

Information Concerning the Trustee

Chase Manhattan Trust Company, N.A. will be the trustee under the indenture. The trustee is not obligated to exercise any of its powers under the indenture at the request of any holder of subordinated debt securities, unless the holder offers to indemnify the trustee against any loss, liability or expense, and then only to the extent required by the terms of the indenture. The trustee is not required to expend or risk its own funds or otherwise incur personal financial liability in the performance of its duties if the trustee reasonably believes that repayment or adequate indemnity is not reasonably assured to it. (Section 6.3) Alcoa and certain of its subsidiaries maintain deposit accounts and conduct other banking transactions, including borrowings in the ordinary course of business, with Chase Manhattan Trust Company, N.A. or its affiliates.

Additional Provisions that may be Applicable to Subordinated Debt Securities

Alcoa may issue a specific series of subordinated debt securities in connection with the issuance by the Alcoa Trust of trust preferred securities. See "Description of Trust Preferred Securities and Trust Guarantee" below. At the time the Alcoa Trust issues trust preferred securities, it will invest the proceeds from the issuance of such securities, together with the consideration paid by Alcoa for the related trust common securities, in subordinated debt securities. The subordinated debt securities held by the Alcoa Trust will be in the principal amount equal to the aggregate stated liquidation amount of the trust preferred securities plus Alcoa's concurrent investment in the related trust common securities.

So long as any of the trust preferred securities remain outstanding:

- . no modification may be made to the indenture relating to the subordinated debt securities that adversely affects the holders of the trust preferred securities in any material respect;
- . no termination of the indenture may occur, and no waiver of any event of default with respect to the subordinated debt securities or compliance with any covenant under the indenture may be effective, without the prior consent of the holders of at least a majority in aggregate liquidation amount of the trust preferred securities then outstanding unless and until the principal of and any premium on the subordinated debt securities and all accrued and unpaid interest thereon has been paid in full; and
- . where a consent under the indenture would require the consent of each holder of subordinated debt securities, no such consent will be given by the Property Trustee without the prior consent of each holder of the trust preferred securities. (Sections 9.1 and 9.2)

If an event of default occurs and is continuing, the Property Trustee will have the right to declare the principal of and the interest on the subordinated debt securities and any other amounts payable under the indenture to be due and payable and to enforce its other rights as a creditor with respect to the subordinated debt securities. (Section 5.2)

Upon the occurrence and continuance of an event of default under the indenture:

- . the holders of at least 25% in aggregate liquidation amount of the trust preferred securities then outstanding will have the right to declare the principal of all the subordinated debt securities to be immediately due and payable if the trustee or the holders of not less than 25% in principal amount of the outstanding subordinated debt securities fail to make such declaration; and
- . the holders of a majority in aggregate liquidation amount of the trust preferred securities then outstanding will have the right to annul and rescind such declaration if the holders of a majority in principal amount of the outstanding subordinated debt securities fail to annul and rescind such declaration as provided in the indenture. (Section 5.2)

The holders of a majority in aggregate liquidation amount of the trust preferred securities then outstanding will have the right to waive any past default under the indenture if the holders of a majority in principal amount of the outstanding subordinated debt securities fail to waive such past default as provided in the indenture. (Section 5.13)

Any consolidation, merger, conveyance, transfer or lease of Alcoa's properties and assets substantially as an entirety permitted under the indenture must also be permitted under the trust agreement and the trust guarantee relating to the trust preferred securities. (Section 8.1)

Under the indenture, Alcoa will pay all of the costs, expenses or liabilities of the Alcoa Trust, other than obligations of the Alcoa Trust to pay to the holders of any trust preferred securities or trust common securities the amounts due under the terms of those securities. (Section 10.9)

DESCRIPTION OF WARRANTS

Alcoa may issue warrants for the purchase of debt securities. Alcoa may issue such warrants independently or together with any debt securities offered by any prospectus supplement. Alcoa will issue warrants under one or more warrant agreements between itself and a warrant agent that it will name in the prospectus supplement. The form of proposed warrant agreement, including the form of warrant certificates representing the warrants, is filed with the SEC and incorporated by reference as an exhibit to the registration statement of which this prospectus is a part. The following summary of the material provisions of the warrants and the warrant agreement is not complete. You should read the warrant agreement for provisions that may be important to you.

The prospectus supplement will describe the terms of the warrants, the warrant agreement and the warrant certificates, including the following:

- . the designation, aggregate principal amount and terms of the debt securities purchasable upon exercise of the warrants;
- . the designation and terms of any related debt securities with which the warrants are issued, and the number of warrants issued with each such debt security;
- . the date, if any, on and after which the warrants and the related debt securities will be separately transferable;
- . the principal amount of debt securities purchasable upon exercise of one warrant and the price at which such principal amount may be purchased upon such exercise;
- . the date on which the right to exercise the warrants will commence and the date on which such right will expire; and
- . whether the warrants represented by the warrant certificates will be issued in registered or bearer form, and if registered, where they may be transferred and registered.

If the debt securities purchasable upon exercise of the warrants are issuable in bearer form, the warrants may not be offered nor constitute an offer to United States persons other than to offices outside the United States of certain United States financial institutions. Moreover, bearer debt securities issuable upon exercise of the warrants may not be issued to United States persons other than to offices outside the United States of certain United States financial institutions.

The corporate trust office of the warrant agent or any other office indicated in the prospectus supplement will be the place where warrant certificates will be exchangeable for new warrant certificates of different denominations and warrants may be exercised. Before the exercise of their warrants, holders of warrants will not have any of the rights of holders of the debt securities purchasable upon such exercise and will not be entitled to payments of principal of, and any premium or interest on, the debt securities purchasable upon exercise.

DESCRIPTION OF PREFERRED STOCK

Alcoa's Articles of Incorporation, as amended, authorize Alcoa to issue two classes of preferred stock:

- . 660,000 shares of \$3.75 Cumulative Preferred Stock, par value \$100.00 per share ("Class A Stock"); and
- . 10,000,000 shares of Class B Serial Preferred Stock, par value \$1.00 per share ("Class B Stock").

As of March 31, 2001, Alcoa had 557,649 shares of Class A Stock outstanding and no shares of Class B Stock outstanding. No additional shares of Class A Stock may be issued. Alcoa initiated an ongoing program to purchase and retire shares of Class A Stock in 1989.

The following is a description of certain general terms and provisions of the series of Class B Stock. The specific terms of a particular series of Class B Stock will be described in the related prospectus supplement. The terms of any series of Class B Stock as set forth in a prospectus supplement may differ from the terms set forth below. The following description of Class B Stock and the description of the terms of a particular series of Class B Stock set forth in the applicable prospectus supplement are not meant to be complete. For more information, you should refer to Alcoa's Articles of Incorporation and Statement with Respect to Shares relating to such series of Class B Stock, which will be filed or incorporated by reference as an exhibit to the registration statement of which this prospectus is a part.

General

The board of directors of Alcoa may issue shares of Class B Stock in one or more series and may fix the specific number of shares and, subject to Alcoa's Articles of Incorporation, the relative rights and preferences of any such series so established. All shares of preferred stock must be identical, except with respect to the following relative rights and preferences, any of which may vary between different series:

- . the rate of dividend, including the date from which dividends will be cumulative, whether such dividend rate will be fixed or variable and the methods, procedures and formulas for the recalculation or periodic resetting of any variable dividend rate;
- . the price at, and the terms and conditions on, which shares may be redeemed;
- . the amounts payable on shares in the event of voluntary or involuntary liquidation;
- . sinking fund provisions for the redemption or purchase of shares in the event shares of any series of preferred stock are issued with sinking fund provisions; and
- . the terms and conditions on which the shares of any series may be converted in the event the shares of any series are convertible.

Each share of any series of Class B Stock will be identical with all other shares of the same series, except as to the date from which dividends will be cumulative.

The prospectus supplement will set forth the following specific terms regarding the series of Class B Stock it offers:

- . the designation, number of shares and liquidation preference per share;
- . the initial public offering price;
- . the dividend rate(s), or the method of determining the dividend rate(s);
- . any index upon which the amount of any dividends is determined;
- . the dates on which any dividends will accrue and be payable, whether dividends will be cumulative, and the designated record dates for determining the holders entitled to dividends;

- . any redemption or sinking fund provisions;
- . any conversion or exchange provisions;
- . provisions for issuance of global securities;
- . the currency, which may be a composite currency, in which payment of any dividends will be payable if other than United States dollars;
- . any voting rights, except as otherwise required by law; and
- . any additional terms, preferences or rights and qualifications, limitations or restrictions.

The shares of Class B Stock will, when issued, be fully paid and nonassessable and will have no preemptive rights.

The transfer agent, registrar, dividend disbursing agent and redemption agent for the Class B Stock will be specified in the related prospectus supplement.

Dividends

The holders of Class A Stock are entitled to receive, when and as declared by Alcoa's board of directors, out of legally available funds, cumulative cash dividends at the annual rate of \$3.75 per share, payable quarterly on the first day of January, April, July and October in each year.

The holders of the Class B Stock of each series will be entitled to receive, when, as and if declared by Alcoa's board of directors, out of legally available funds, cumulative cash or other dividends at such rate(s) and on such dates as the board of directors determines. The applicable prospectus supplement will set forth this dividend right. Rates may be fixed or variable or both. The board may not declare dividends in respect of any dividend period on any series of Class B Stock unless all accrued dividends and the current quarter yearly dividend on the Class A Stock are paid in full or the board contemporaneously declares and sets apart such Class A Stock dividends. If Alcoa has not declared and paid or set apart the full cumulative dividends on shares of a series of Class B Stock, dividends thereon will be declared and paid pro rata to the holders of the series. Alcoa will not pay interest on any dividend payment on the Class A Stock or the Class B Stock which is in arrears.

If Alcoa has not declared and paid or set apart when due full cumulative dividends on any class or series of Class A Stock or Class B Stock, including the current quarter yearly dividend for shares of Class A Stock, Alcoa may not declare or pay any dividends on, or make other distributions on or make payment on account of the purchase, redemption, or other retirement, of Alcoa common stock. No restriction applies to Alcoa's repurchase or redemption of Class A Stock or Class B Stock while there is any arrearage in the payment of dividends or any applicable sinking fund installments on Class A Stock or Class B Stock.

Redemption

Alcoa may redeem all or any part of the Class A Stock at any time at the option of its board of directors. Such redemption will be at par, plus accrued dividends. Alcoa must publish notice of such redemption in daily newspapers of general circulation in New York City and in Pittsburgh, Pennsylvania, as well as by mail to each record holder. Alcoa must give such notice not less than 30 days nor more than 60 days before the date fixed for redemption. If Alcoa redeems only part of the Class A Stock, Alcoa will select the shares to be redeemed pro rata or by lot, as Alcoa's board of directors determines.

If notice of redemption has been given, from and after the redemption date for the shares of Class A Stock called for redemption, the following will occur, unless Alcoa fails to provide funds for payment of the redemption price:

- . dividends on the shares of Class A Stock called for redemption will cease to accrue;
- . such shares will no longer be deemed to be outstanding; and
- . holders will have no further rights as shareholders of Alcoa, except the right to receive the redemption price.

Holders will receive the redemption price for the Class A Stock when they surrender the certificates representing such shares in accordance with the redemption notice (including being properly endorsed or assigned for transfer, if Alcoa's board of directors so requires and the notice so states). If Alcoa redeems fewer than all of the shares represented by any certificate, Alcoa will issue a new certificate representing the unredeemed shares, at no cost to the certificate holder. All shares of Class A Stock which Alcoa redeems will be cancelled and not reissued.

The terms and conditions under which all or any part of any series of the Class B Stock may be redeemed will be established by Alcoa's board of directors before Alcoa issues such series of Class B Stock. Unless Alcoa's board of directors determines otherwise, all shares of Class B Stock which Alcoa redeems or otherwise acquires will return to the status of authorized but unissued shares.

Liquidation Preference

Upon any liquidation, dissolution or winding up of Alcoa, each holder of Class A Stock will be entitled to receive, out of the assets of Alcoa available for distribution to shareholders, \$100 per share plus accrued and unpaid dividends, before any distribution of assets is made to or set apart for the holders of Class B Stock or common stock.

Upon any liquidation, dissolution or winding up of Alcoa, the holders of shares of each series of Class B Stock will be entitled to receive, out of the assets of Alcoa available for distribution to shareholders, an amount fixed by the board of directors plus any accrued and unpaid dividends, before any distribution is made or set apart for holders of common stock, as described in the prospectus supplement relating to the series of Class B Stock. If Alcoa's assets are insufficient to pay the full amount payable on shares of each series of Class B Stock in any case of liquidation, dissolution or winding up of Alcoa, the holders of shares of the series of Class B Stock will share ratably in any such distribution of assets of Alcoa in proportion to the full respective preferential amounts to which they are entitled. Once holders of shares of the series of Class B Stock are paid the full preferential amounts to which they are entitled, they will not be entitled to participate any further in any distribution of assets by Alcoa, unless indicated otherwise in the applicable prospectus supplement. A consolidation or merger of Alcoa with one or more corporations will not be deemed to be a liquidation, dissolution or winding up of Alcoa.

Conversion and Exchange Rights

Class A Stock is not convertible or exchangeable for common stock. Any terms on which shares of any series of Class B Stock are convertible into or exchangeable for common stock will be set forth in the related prospectus supplement. These terms may include provisions for conversion or exchange, either mandatory, at the option of the holder, or at the option of Alcoa.

Voting Rights

Except as indicated below or in the related prospectus supplement for a particular series of the Class B Stock, or except as expressly required by applicable law, the holders of Class A Stock and Class B Stock will not be entitled to vote.

Pennsylvania law requires that holders of outstanding shares of a particular class or series of stock be entitled to vote as a class on an amendment to the Articles of Incorporation that would do any of the following:

- . authorize Alcoa's board of directors to fix and determine the relative rights and preferences as between any series of any preferred stock or special class of stock;
- . change the preferences, limitations or other special rights of the shares of a class or series in a manner which is adverse to that class or series;

- . authorize a new class or series of shares which has a preference as to dividends or assets which is senior to that of shares of a particular class or series; or
- . increase the number of authorized shares of any particular class or series which has a preference as to dividends or assets which is senior in any respect to the shares of such class or series.

The board of directors, under Alcoa's Articles of Incorporation, may limit or eliminate the voting rights applicable to any series of Class B Stock before the issuance of such series, except as otherwise required by law. Any one or more series of the Class B Stock may be issued with such additional voting rights, which will be exercisable only during extended periods of dividend arrearages, as the board of directors may determine in order to qualify such series for listing on a recognized stock exchange. Such rights may only be granted if there are no shares of Class A Stock outstanding.

Each full share of any series of the Class B Stock will be entitled to one vote on matters on which holders of such series, together with holders of any other series of Class B Stock, are entitled to vote as a single class. Therefore, the voting power of each series will depend on the number of shares in that series, and not on the liquidation preference or initial offering price of such shares.

Alcoa must obtain the consent of the holders of at least a majority of the outstanding Class A Stock and Class B Stock, voting as a class, to do the following:

- . authorize any additional class of stock or increase the authorized number of shares of preferred stock or any class of stock which ranks on a parity with the Class A Stock or Class B Stock as to dividends or assets; or
- . merge or consolidate with or into any other corporation if the corporation surviving or resulting from such merger or consolidation would have any authorized class of stock ranking senior to or on a parity with the Class A Stock or Class B Stock, except the same number of shares of stock with the same rights and preferences as the authorized stock of the corporation immediately before such merger or consolidation.

So long as any shares of Class A Stock or Class B Stock remain outstanding, Alcoa may not, without the consent of the holders of at least two-thirds of the outstanding Class A Stock and Class B Stock, voting as a class:

- . make any adverse change in the rights and preferences of the Class A Stock or Class B Stock. If such a change would affect any series of Class A Stock or Class B Stock adversely as compared to the effect on any other series of Class A Stock or Class B Stock, no such change may be made without the additional consent of the holders of at least two-thirds of the outstanding shares of such series of Class A Stock or Class B Stock;
- . authorize any additional class of stock or increase the authorized number of shares of any class of stock which ranks senior to the Class A Stock or Class B Stock as to dividends or assets; or
- . sell or otherwise part with control of all or substantially all of its property or business or voluntarily liquidate, dissolve or wind up its affairs.

DESCRIPTION OF COMMON STOCK

Alcoa is authorized to issue 1,800,000,000 shares of common stock, par value \$1.00 per share. As of March 31, 2001, there were 864,060,712 shares of Alcoa common stock outstanding. In addition, as of the same date, there were 60,513,826 shares of Alcoa common stock issued and held in Alcoa's treasury, and 87,818,659 shares of Alcoa common stock reserved for issuance under various incentive plans.

Dividend Rights

Holders of Alcoa common stock are entitled to receive dividends as declared by the Alcoa board of directors. However, no dividend will be declared or paid on Alcoa's common stock until Alcoa has paid (or declared and set aside funds for payment of) all dividends which have accrued on all classes of Alcoa's preferred stock, including the current quarter yearly dividend on the Class A Stock.

Voting Rights

Holders of Alcoa common stock are entitled to one vote per share.

Liquidation Rights

Upon any liquidation, dissolution or winding up of Alcoa, whether voluntary or involuntary, after payments to holders of preferred stock of amounts determined by the board of directors, plus any accrued dividends, Alcoa's remaining assets will be divided among holders of Alcoa common stock. Under Alcoa's Articles of Incorporation, neither the consolidation or merger of Alcoa with or into one or more corporations or any share exchange or division involving Alcoa will be deemed a liquidation, dissolution or winding up of Alcoa.

Preemptive or Other Subscription Rights

Holders of Alcoa common stock will not have any preemptive right to subscribe for any securities of Alcoa.

Conversion and Other Rights

No conversion, redemption or sinking fund provisions apply to Alcoa common stock, and Alcoa common stock is not liable to further call or assessment by Alcoa. All issued and outstanding shares of Alcoa common stock are fully paid and non-assessable.

Other Matters

Alcoa's Articles of Incorporation provide for the following:

- . a classified board of directors with staggered three-year terms;
- . special shareholder voting requirements to remove directors; and
- . certain procedures relating to the nomination of directors, filling of vacancies and the vote required to amend or repeal any of these provisions.

Alcoa's Articles of Incorporation also prohibit Alcoa's payment of "green-mail," that is, payment of a premium in purchasing shares of its common stock from a present or recent holder of 5% or more of the common stock, except with the approval of a majority of the disinterested shareholders. This provision and the classified board provision may be amended or repealed only with the affirmative vote of at least 80% of the common stock. In addition, the Articles of Incorporation limit or eliminate to the fullest extent permitted by

Pennsylvania law, as from time to time in effect, the personal liability of Alcoa's directors for monetary damages, and authorize Alcoa, except as prohibited by law, to indemnify directors, officers, employees and others against liabilities and expenses incurred by them in connection with the performance of their duties to Alcoa. The classified board article provision and the anti-"greenmail" provision may have certain anti-takeover effects.

Alcoa is governed by certain "anti-takeover" provisions in the Pennsylvania Business Corporation Law (the "PCBL"). Chapter 25 of the PBCL contains several anti-takeover provisions that apply to registered corporations such as Alcoa. Section 2538 of the PBCL requires shareholder approval for certain transactions between a registered corporation and an interested shareholder (generally, a shareholder who owns 20% of the stock entitled to vote in an election of directors). Section 2538 applies if an interested shareholder (together with anyone acting jointly with such shareholder and any affiliates of such shareholder):

- . is to be a party to a merger or consolidation, a share exchange or certain sales of assets involving such corporation or one of its subsidiaries;
- . is to receive a disproportionate amount of any of the securities of any corporation which survives or results from a division of the corporation;
- . is to be treated differently from others holding shares of the same class in a voluntary dissolution of such corporation; or
- . is to have his or her percentage of voting or economic share interest in such corporation materially increased relative to substantially all other shareholders in a reclassification.

In such a case, the proposed transaction must be approved by the affirmative vote of the holders of shares representing at least a majority of the votes that all shareholders are entitled to cast with respect to such transaction. Shares held by the interested shareholder are not included in calculating the number of shares entitled to be cast, and the interested shareholder is not entitled to vote on the transaction. This special voting requirement does not apply if the proposed transaction has been approved in a prescribed manner by the corporation's board of directors or if certain other conditions, including the amount of consideration to be paid to certain shareholders, are satisfied or the transaction involves certain subsidiaries.

Section 2555 of the PBCL may also apply to a transaction between a registered corporation and an interested shareholder, even if Section 2538 also applies. Section 2555 prohibits a corporation from engaging in a business combination with an interested shareholder unless one of the following conditions is met:

- . the board of directors has previously approved either the proposed transaction or the interested shareholder's acquisition of shares;
- . the interested shareholder owns at least 80% of the stock entitled to vote in an election of directors and, no earlier than three months after the interested shareholder reaches the 80% level,
- . the majority of the remaining shareholders approve the proposed transaction;
- . shareholders receive a minimum "fair price" for their shares in the transaction; and
- . the other conditions of Section 2556 of the PBCL are met;
- . holders of all outstanding common stock approve the transaction;
- . no earlier than 5 years after the interested shareholder acquired the 20%, a majority of the remaining shares entitled to vote in an election of directors approve the transaction; or
- . no earlier than 5 years after the interested shareholder acquired the 20%, a majority of all the shares approve the transaction, all shareholders receive a minimum fair price for their shares, and certain other conditions are met.

Alcoa's Articles of Incorporation also provide that Alcoa may not repurchase any stock from an interested shareholder at prices greater than the current fair market value. Under the PBCL, a person or group of persons acting in concert who hold 20% of the shares of a registered corporation entitled to vote in the election of directors constitutes a control group. On the occurrence of the transaction that makes the group a control group, any other shareholder of the registered corporation who objects can, under procedures set forth under the PBCL, require the control group to purchase his or her shares at "fair value," as defined in the PBCL.

The PBCL also contains certain provisions applicable to a registered corporation such as Alcoa which, under certain circumstances, permit a corporation to:

- . redeem "control shares," as defined in the PBCL;
- . remove the voting rights of control shares; and
- . require the disgorgement of profits by a "controlling person," as defined in the PBCL.

The transfer agent and registrar for Alcoa common stock is First Chicago Trust Company, a Division of EquiServe.

DESCRIPTION OF TRUST PREFERRED SECURITIES AND TRUST GUARANTEE

Trust Preferred Securities

The Declaration under which the Alcoa Trust is organized will be replaced by an amended and restated trust agreement which will authorize the trustees of the Alcoa Trust to issue on behalf of the Alcoa Trust one series of trust preferred securities and one series of trust common securities. The form of trust agreement is filed with the SEC and incorporated by reference as an exhibit to the registration statement of which this prospectus is a part. The trust agreement will be subject to, and governed by, the Trust Indenture Act. The trust preferred securities will be issued to the public under the registration statement of which this prospectus is a part. The trust common securities will be issued directly or indirectly to Alcoa. This summary of certain terms of the trust preferred securities and the trust agreement is not complete. For more information, you should refer to the full text of the trust preferred securities and the trust agreement, including the definitions of terms used and not defined in this prospectus or the related prospectus supplement, and those made part of the trust agreement by the Trust Indenture Act.

The trust preferred securities will have the terms, including dividends, redemption, voting, conversion, liquidation rights and such other preferred, deferred or other special rights or such restrictions as set forth in the trust agreement or made part of the trust agreement by the Trust Indenture Act. A prospectus supplement will describe the specific terms of the trust preferred securities the Alcoa Trust is offering, including:

- . the distinctive designation of trust preferred securities;
- . the number of trust preferred securities issued by the Alcoa Trust;
- . the annual dividend rate, or method of determining the rate, for trust preferred securities and the date(s) upon which dividends will be payable;
- . whether dividends on trust preferred securities will be cumulative, and, in the case of trust preferred securities having cumulative dividend rights, the date or dates or method of determining the date(s) from which dividends on trust preferred securities will be cumulative;
- . the amount or amounts that will be paid out of the assets of the Alcoa Trust to the holders of trust preferred securities upon voluntary or involuntary dissolution, winding up or termination of the Alcoa Trust;
- . any terms and conditions under which trust preferred securities may be converted into shares of capital stock of Alcoa, including the conversion price per share and any circumstances under which the conversion right will expire;
- . any terms and conditions upon which the related series of the subordinated debt securities of Alcoa may be distributed to holders of trust preferred securities;
- . any obligation of the Alcoa Trust to purchase or redeem trust preferred securities and the price(s) at which, the period(s) within which and the terms and conditions upon which trust preferred securities will be purchased or redeemed, in whole or in part, under that obligation;
- . any voting rights of trust preferred securities in addition to those required by law, including the number of votes per trust preferred security and any requirement for the approval by the holders of trust preferred securities, as a condition to specified action or amendments to the trust agreement; and
- . any other relevant rights, preferences, privileges, limitations or restrictions of trust preferred securities consistent with the trust agreement or with applicable law.

Under the trust agreement, the Property Trustee will own a series of subordinated debt securities of Alcoa purchased by the Alcoa Trust for the benefit of the holders of the trust preferred securities and the trust common securities. The payment of dividends out of money held by the Alcoa Trust, and payments upon redemption of trust preferred securities or liquidation of the Alcoa Trust, will be guaranteed by Alcoa to the extent described under "Trust Guarantee."

Certain United States Federal income tax considerations applicable to an investment in trust preferred securities will be described in the applicable prospectus supplement.

In connection with the issuance of trust preferred securities, the Alcoa Trust will also issue one series of trust common securities. The trust agreement will authorize the regular trustees of the Alcoa Trust to issue on behalf of the Alcoa Trust one series of trust common securities having such terms as will be set forth in the trust agreement, including:

- . dividends;
- . conversion;
- . redemption;
- . voting;
- . liquidation rights; or
- . such restrictions as may be set forth in the trust agreement.

Except as otherwise provided in the prospectus supplement, the terms of the trust common securities will be substantially identical to the terms of the trust preferred securities. The trust common securities will rank *pari passu*, and payments will be made on the trust common securities pro rata with the trust preferred securities, except that, upon an event of default under the trust agreement, the rights of the holders of the trust common securities to payment in respect of dividends and payments upon liquidation, redemption and otherwise will be subordinated to the rights of the holders of the trust preferred securities. Except in certain limited circumstances, the trust common securities will also carry the right to vote and appoint, remove or replace any of the trustees of the Alcoa Trust. All of the trust common securities will be directly or indirectly owned by Alcoa.

Alcoa and certain of its subsidiaries maintain deposit accounts and conduct other banking transactions, including borrowings in the ordinary course of business, with the Property Trustee.

Trust Guarantee

Alcoa will execute and deliver a guarantee, concurrently with the issuance by the Alcoa Trust of its trust preferred securities, for the benefit of the holders from time to time of the trust preferred securities. The accompanying prospectus supplement will describe any significant differences between the actual terms of the trust guarantee and the summary below. The following summary of the trust guarantee is not complete. For more information, you should refer to the full text of the trust guarantee, including the definitions of terms used and not defined in this prospectus or the related prospectus supplement and those terms made a part of the trust guarantee by the Trust Indenture Act. The form of trust guarantee is filed with the SEC and incorporated by reference as an exhibit to the registration statement of which this prospectus is a part.

General

Alcoa will irrevocably and unconditionally agree, to the extent set forth in the trust guarantee, to pay in full to the holders of trust preferred securities the trust guarantee payments, except to the extent paid by the Alcoa Trust, as and when due, regardless of any defense, right of set-off or counterclaim that the Alcoa Trust may have or assert. The following payments with respect to the trust preferred securities, to the extent not paid by the Alcoa Trust, will be subject to the trust guarantee, without duplication:

- . any accrued and unpaid dividends that are required to be paid on the trust preferred securities, to the extent the Alcoa Trust has funds legally available therefor;
- . the redemption price, including all accrued and unpaid dividends, payable out of funds legally available therefor, with respect to any trust preferred securities called for redemption by the Alcoa Trust; and

- . upon a liquidation of the Alcoa Trust, other than in connection with the distribution of subordinated debt securities of Alcoa to the holders of the trust preferred securities or the redemption of all of the trust preferred securities issued by the Alcoa Trust, the lesser of:
 - . the aggregate of the liquidation amount and all accrued and unpaid dividends on the trust preferred securities to the date of payment; and
 - . the amount of assets of the Alcoa Trust remaining available for distribution to holders of trust preferred securities in liquidation of the Alcoa Trust.

Alcoa's obligation to make a trust guarantee payment may be satisfied by Alcoa's direct payment of the required amounts to the holders of trust preferred securities or by causing the Alcoa Trust to pay the amounts to the holders.

Covenants of Alcoa

In the trust guarantee, Alcoa will covenant that, so long as any trust preferred securities issued by the Alcoa Trust remain outstanding, if there has occurred any event that would constitute an event of default under the trust guarantee or the trust agreement, then:

- . Alcoa will not declare or pay any dividend on, make any distributions with respect to, or redeem, purchase or make a liquidation payment with respect to, any of its common stock, other than:
 - . purchases or acquisitions of shares of common stock in connection with the satisfaction by Alcoa of its obligations under any employee benefit plan;
 - . as a result of a reclassification of Alcoa's common stock or the exchange or conversion of one class or series of Alcoa's common stock for another class or series of Alcoa's common stock;
 - . the purchase of fractional interests in shares of Alcoa's common stock under the conversion or exchange provisions of such common stock or the security being converted or exchanged; or
 - . purchases or acquisitions of shares of common stock to be used in connection with acquisitions of common stock by shareholders under Alcoa's dividend reinvestment plan;

or make any guarantee payments with respect to the foregoing; and

- . Alcoa will not make any payment of principal of, or premium, if any, on or repurchase any debt securities issued by Alcoa (including guarantees) which rank pari passu with or junior to the subordinated debt securities, other than at stated maturity.

Amendment and Assignment

Except with respect to any changes that do not adversely affect the rights of holders of trust preferred securities, in which case no vote will be required, the trust guarantee may be amended only with the prior approval of the holders of not less than a majority in liquidation amount of the outstanding trust preferred securities. The manner of obtaining any approval of the holders will be as set forth in an accompanying prospectus supplement. All guarantees and agreements contained in the trust guarantee will bind the successors, assigns, receivers, trustees and representatives of Alcoa and will inure to the benefit of the holders of the trust preferred securities then outstanding.

Termination

The trust guarantee will terminate:

- . upon full payment of the redemption price of all trust preferred securities;

- . upon distribution of the subordinated debt securities of Alcoa held by the Alcoa Trust to the holders of the trust preferred securities; or
- . upon full payment of the amounts payable in accordance with the trust agreement upon liquidation of the Alcoa Trust.

The trust guarantee will continue to be effective or will be reinstated, as the case may be, if at any time any holder of trust preferred securities must restore payment of any sums paid under those trust preferred securities or the trust guarantee. The subordination provisions of the subordinated debt securities and the trust guarantee, respectively, will provide that in the event payment is made on the subordinated debt securities or the trust guarantee in contravention of the subordination provisions, such payments will be paid over to the holders of Senior Debt.

Ranking of the Trust Guarantee

The trust guarantee will constitute an unsecured obligation of Alcoa and will rank:

- . subordinate and junior in right of payment to all other liabilities of Alcoa;
- . pari passu with the most senior preferred or preference stock, if any, thereafter issued by Alcoa and with any guarantee thereafter entered into by Alcoa in respect of any preferred or preference stock or interests of any affiliate of Alcoa; and
- . senior to Alcoa's common stock.

The trust agreement will provide that each holder of trust preferred securities by acceptance of those securities agrees to the subordination provisions and other terms of the trust guarantee.

The trust guarantee will constitute a guarantee of payment and not of collection. The trust guarantee will be deposited with the Property Trustee to be held for the benefit of the trust preferred securities. The Property Trustee will have the right to enforce the trust guarantee on behalf of the holders of the trust preferred securities. The holders of not less than a majority in aggregate liquidation amount of the trust preferred securities will have the right to direct the time, method and place of conducting any proceeding for any remedy available in respect of the trust guarantee, including the giving of directions to the Property Trustee. Any holder of trust preferred securities may institute a legal proceeding directly against Alcoa to enforce its rights under the trust guarantee, without first instituting a legal proceeding against the Alcoa Trust, or any other person or entity. The trust guarantee will not be discharged except by payment of the trust guarantee payments in full to the extent not paid by the Alcoa Trust, and by complete performance of all obligations under the trust guarantee.

Governing Law

The trust guarantee will be governed by and construed in accordance with the laws of the State of New York.

PLAN OF DISTRIBUTION

Alcoa and/or the Alcoa Trust may sell the securities in one or more of the following ways:

- . to underwriters for public offering and sale by them;
- . directly to purchasers;
- . through agents;
- . through dealers; or
- . through a combination of any of these methods of sale.

Offers to purchase securities may be solicited directly by Alcoa and/or the Alcoa Trust or by agents designated by Alcoa and/or the Alcoa Trust from time to time. Any agent, who may be deemed to be an underwriter, as that term is defined in the Securities Act, involved in the offer and sale of the securities will be named, and any commissions payable by Alcoa and/or the Alcoa Trust to that agent will be provided, in an applicable prospectus supplement. Alcoa and/or the Alcoa Trust and its agents may sell the securities at:

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

Underwriters, dealers and agents participating in the distribution of the securities may be deemed to be underwriters, and any discounts and commissions received by them and any profit realized by them on resale of the securities may be deemed to be underwriting discounts and commissions under the Securities Act. Underwriters, dealers and agents may be entitled, under agreements with Alcoa and/or the Alcoa Trust, to indemnification against and contribution toward certain civil liabilities, including liabilities under the Securities Act, and to reimbursement by Alcoa and/or the Alcoa Trust for certain expenses.

If an underwriter or underwriters are used in the offer or sale of securities, Alcoa and/or the Alcoa Trust will execute an underwriting agreement with the underwriters at the time of sale of the securities to the underwriters, and the names of the underwriters and the principal terms of Alcoa's and/or the Alcoa Trust's agreements with the underwriters will be provided in the applicable prospectus supplement.

If indicated in an applicable prospectus supplement, Alcoa and/or the Alcoa Trust will authorize dealers acting as agents for Alcoa and/or the Alcoa Trust to solicit offers by certain institutions to purchase securities from Alcoa and/or the Alcoa Trust at the public offering price set forth in the prospectus supplement under delayed delivery contracts providing for payment and delivery on the date or dates stated in the prospectus supplement. The terms of such delayed delivery contracts will be set forth in the applicable prospectus supplement.

Each underwriter, dealer and agent participating in the distribution of any of the securities that are issuable in bearer form will agree that it will not offer, sell or deliver, directly or indirectly, securities in bearer form in the United States or to United States persons, other than qualifying financial institutions, during the restricted period, as defined in United States Treasury Regulations Section 1.163-5(c)(2)(i)(D)(7).

All of the securities will be a new issue of securities with no established trading market. Any underwriters to whom the securities are sold by Alcoa and/or the Alcoa Trust for public offering and sale may make a market in the securities, but such underwriters will not be obligated to do so and may discontinue any market making at any time without notice. No assurance can be given as to the liquidity of the secondary market for any of the securities.

Certain of the underwriters or agents and their associates may be customers of, engage in transactions with and perform services for Alcoa and its subsidiaries in the ordinary course of business.

LEGAL MATTERS

Unless otherwise indicated in the applicable prospectus supplement, the validity of the securities offered by Alcoa will be passed upon for Alcoa by Thomas F. Seligson, Esq., Counsel of Alcoa. The validity of the trust preferred securities will be passed upon for the Alcoa Trust by Skadden, Arps, Slate, Meagher & Flom LLP, New York, New York, special counsel to Alcoa and the Alcoa Trust. The validity of all of the securities offered by this prospectus will be passed upon for any underwriters or agents by Cravath, Swaine & Moore, New York, New York. Mr. Seligson is paid a salary by Alcoa, is a participant in various employee benefit plans offered by Alcoa to employees of Alcoa generally and has options to purchase shares of Alcoa common stock. Cravath, Swaine & Moore currently represents Alcoa on various matters and may continue to do so in the future.

EXPERTS

The consolidated financial statements and related schedule of Alcoa and its subsidiaries incorporated in this prospectus by reference to Alcoa's Annual Report on Form 10-K, as amended, for the fiscal year ended December 31, 2000, have been so incorporated in reliance on the reports of PricewaterhouseCoopers LLP, independent accountants, given on the authority of said firm as experts in auditing and accounting.

PART II

INFORMATION NOT REQUIRED IN PROSPECTUS

Item 14. Other Expenses of Issuance and Distribution.

The following table sets forth the expenses to be borne by Alcoa in connection with the offerings described in this registration statement, other than underwriting compensation. All such expenses, other than the SEC registration fee, are estimates.

Registration Fee.....	\$ 750,000
Rating Agency Fees.....	500,000
Printing and Engraving.....	60,000
Trustees' Fees and Expenses.....	15,000
Accountants' Fees and Expenses.....	25,000
Legal Fees and Expenses.....	25,000
Miscellaneous.....	10,000

Total.....	\$1,385,000
	=====

Item 15. Indemnification of Directors and Officers.

Alcoa

Article V of the By-Laws of Alcoa provides that Alcoa shall indemnify, under specified circumstances, persons who were or are directors, officers or employees of Alcoa or who served or serve other business entities at the request of Alcoa. Under these By-Law provisions, a person who is wholly successful in defending a claim will be indemnified for any reasonable expenses. To the extent a person is not successful in defending a claim, reasonable expenses of the defense and any liability incurred are to be indemnified under these provisions only where independent legal counsel or another disinterested person selected by the board of directors determines that such person acted in good faith and in a manner such person reasonably believed to be in, or not opposed to, the best interests of Alcoa, and in addition with respect to any criminal action or proceeding, had no reasonable cause to believe the conduct of such person was unlawful. Any expense incurred with respect to any claim may be advanced by Alcoa if the recipient agrees to repay such amount if it is ultimately determined that such recipient is not to be indemnified pursuant to Article V.

The foregoing By-Law provisions generally parallel Sections 1741 and 1745 of the Pennsylvania Business Corporation Law ("PBCL"). Section 1746 and the By-Laws both also provide that the indemnification provided for therein shall not be deemed exclusive of any other rights to which those seeking indemnification may otherwise be entitled.

Section 1746 of the PBCL and the By-Laws provide for increased indemnification protections for directors, officers and others. Indemnification may be provided by Pennsylvania corporations in any case except where the act or failure to act giving rise to the claim for indemnification is determined by a court to have constituted willful misconduct or recklessness.

Section 1713 of the PBCL also sets forth a framework whereby Pennsylvania corporations, with the approval of the shareholders, may limit the personal liability of directors for monetary damages except where the act or omission giving rise to a claim constitutes self-dealing, willful misconduct or recklessness. The section does not apply to a director's responsibility or liability under a criminal or tax statute and may not apply to liability under Federal statutes, such as the Federal securities laws.

Alcoa's Articles of Incorporation and By-Laws were amended by the shareholders to implement the increased protections made available to directors under the PBCL as described in the preceding paragraph.

Article VIII of the By-Laws provides that, except as prohibited by law, every director of Alcoa shall be entitled as of right to be indemnified by Alcoa for expenses and any and all liability paid or incurred by such person by reason of such person being or having been a director of Alcoa. Expenses incurred with respect to any claim may be advanced by Alcoa, subject to certain exceptions. The shareholders have also approved a form of indemnity agreement. Alcoa has entered into such an indemnity agreement with each of its current directors.

Alcoa has purchased a three-year liability insurance policy with an aggregate limit of \$150 million, with certain specified deductible amounts for liability of directors and officers and reimbursement to Alcoa for indemnification provided to directors and officers. The policy has an expiration date of October 1, 2003 and provides liability insurance and reimbursement coverage for Alcoa, and its directors and officers, which is permitted by the laws of Pennsylvania referred to above.

The Articles of Incorporation provide that except as prohibited by law, Alcoa may indemnify any person who is or was a director, officer, employee or agent of Alcoa or is or was serving at the request of Alcoa as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, including, without limitation, any employee benefit plan, and may take such steps as may be deemed appropriate by the board of directors, including purchasing and maintaining insurance, entering into contracts, including, without limitation, contracts of indemnification between Alcoa and its directors and officers, creating a trust fund, granting security interests or using other means, including, without limitation, a letter of credit to ensure the payment of such amounts as may be necessary to effect such indemnification. The By-Laws provide for indemnification of such persons to the fullest extent permitted by law.

The Articles of Incorporation also provide that to the fullest extent that the laws of the Commonwealth of Pennsylvania permit elimination or limitation of the liability of directors, no director of Alcoa shall be personally liable for monetary damages for any action taken, or any failure to take any action.

Section (6)(b) of the form of underwriting agreement relating to each of the senior debt securities and the Class B Stock (Exhibit (1)(a) and (1)(b), respectively, hereto) and Section 7(b) of the form of agency agreement (Exhibit 1(c) hereto) contain provisions relating to the indemnification by each underwriter and agent, respectively, of Alcoa, officers and directors of Alcoa and each person, if any, who controls Alcoa, and Section 6(a) of the form of underwriting agreement relating to each of the senior debt securities and the Class B Stock and Section 7(a) of such agency agreement contain provisions relating to the indemnification by Alcoa of each underwriter and agent, respectively, and each person controlling the same, against liabilities arising out of any untrue statement of any material fact contained in this registration statement, or omission therefrom of any material fact. In addition, Section 8(a) of the form of underwriting agreement relating to the trust preferred securities (Exhibit (1)(d) hereto) contains provisions relating to the indemnification by each underwriter of Alcoa and the Alcoa Trust, and Section 8(b) of the form of underwriting agreement relating to the trust preferred securities contains provisions relating to the indemnification by Alcoa and the Alcoa Trust of each underwriter, against liabilities arising out of any untrue statement of any material fact contained in this registration statement, or omission therefrom of any material fact.

The Alcoa Trust

The trust agreement pursuant to which the Alcoa Trust is organized will provide that no regular trustee, or affiliate of any regular trustee, or officer, director, shareholder, member, partner, employee, representative or agent of any trustee or of any such affiliate, or employee or agent of the Alcoa Trust or its affiliates (each an "Indemnified Person") shall be liable, responsible or accountable in damages or otherwise to the Alcoa Trust or any employee or agent of the Alcoa Trust or its affiliates for any loss, damage or claim incurred by reason of any act or omission performed or omitted by such Indemnified Person in good faith on behalf of the Alcoa Trust and in a manner such Indemnified Person reasonably believed to be within the scope of the authority conferred on such Indemnified Person by such trust agreement or by law, except that an Indemnified Person shall be liable for such loss, damage or claim incurred by reason of such Indemnified Person's gross negligence

or willful misconduct with respect to such act or omission. The trust agreement also provides that to the fullest extent permitted by applicable law, Alcoa shall indemnify and hold harmless each Indemnified Person from and against any loss, damage or claim incurred by such Indemnified Person by reason of any act or omission performed or omitted by such Indemnified Person in good faith on behalf of the Alcoa Trust and in a manner such Indemnified Person reasonably believed to be within the scope of authority conferred on such Indemnified Person by such trust agreement, except that no Indemnified Person shall be entitled to be indemnified in respect of any loss, damage or claim incurred by such Indemnified Person by reason of gross negligence or willful misconduct with respect to such act or omission. The trust agreement further provides that, to the fullest extent permitted by applicable law, expenses, including legal fees, incurred by an Indemnified Person in defending any claim, demand, action, suit or proceeding shall, from time to time, be advanced by Alcoa prior to the final disposition of such claim, demand, action, suit or proceeding upon receipt of an undertaking by or on behalf of the Indemnified Person to repay such amount if it shall be determined that the Indemnified Person is not entitled to be indemnified for the underlying cause of action as authorized by such trust agreement.

Item 16. Exhibits.

A list of Exhibits filed with this registration statement is contained on the Exhibit Index and is incorporated herein by reference.

Item 17. Undertakings.

The undersigned Registrants hereby undertake:

(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, unless the information required to be included in such post-effective amendment is contained in a periodic report filed by Alcoa pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 and incorporated herein by reference;

(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, unless such information required to be included in such post-effective amendment is contained in a periodic report filed by Alcoa pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 and incorporated herein by reference; 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; and

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

(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 purposes of determining any liability under the Securities Act of 1933, each filing of Alcoa'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.

(5) That, for purposes of determining any liability under the Securities Act of 1933, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the Registrants pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.

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

Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Registrants pursuant to the foregoing provisions described in Item 15 above, the Registrants have been informed that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrants of expenses incurred or paid by a director, officer or controlling person of the Registrants 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, each 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 Act and will be governed by the final adjudication of such issue.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, Alcoa 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 and State of New York on the 16th day of April, 2001.

Alcoa Inc.

/s/ Alain J. P. Belda

By: _____
 Name: Alain J. P. Belda
 Title: Chairman of the Board and
 Chief Executive Officer

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

Signature -----	Title -----	Date -----
/s/ Alain J. P. Belda _____ Alain J. P. Belda	Chairman of the Board and Chief Executive Officer and Director (Principal Executive Officer)	April 16, 2001
/s/ Richard B. Kelson _____ Richard B. Kelson	Executive Vice President and Chief Financial Officer (Principal Financial Officer)	April 16, 2001
/s/ Timothy S. Mock _____ Timothy S. Mock	Vice President and Controller (Principal Accounting Officer)	April 16, 2001

Joseph T. Gorman, Judith M. Gueron, Sir Ronald Hampel, Hugh M. Morgan, John P. Mulroney, Henry B. Schacht, Franklin A. Thomas and Marina v.N. Whitman, each as a Director, on April 16, 2001, by William B. Plummer, their attorney-in-fact.

/s/ William B. Plummer
 By: _____
 William B. Plummer
 Attorney-in-Fact

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, Alcoa Trust I 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 Pittsburgh and the Commonwealth of Pennsylvania, on the 16 day of April, 2001.

Alcoa Trust I,
a Delaware business trust

By: Alcoa Inc.,
as Depositor

/s/ Richard B. Kelson
By: _____
Name: Richard B. Kelson
Title: Executive Vice President
and
Chief Financial Officer

INDEX TO EXHIBITS

Exhibit Number -----	Exhibit -----
(1)(a)	Form of Underwriting Agreement relating to the Debt Securities and Warrants to Purchase Debt Securities (incorporated by reference to Exhibit 1(a) to Registration Statement No. 33-49997 on Form S-3).
(1)(b)	Form of Underwriting Agreement relating to the Class B Stock (incorporated by reference to Exhibit 1(b) to Registration Statement No. 33-49997 on Form S-3).
(1)(c)	Form of proposed Agency Agreement relating to the Distribution of Medium-Term Notes (incorporated by reference to Exhibit 1(b) to Post-Effective Amendment No. 1 to Registration Statement No. 33-00877 on Form S-3).
(1)(d)	Form of Underwriting Agreement for Trust Preferred Securities (incorporated by reference to Exhibit 1(d) to Registration Statement No. 333-59381 on Form S-3).
(2)(a)	Agreement and Plan of Merger among Alcoa, RLM Acquisition Corp. and Reynolds Metals Company dated as of August 18, 1999 (incorporated by reference to Exhibit 99.1 to Alcoa's Current Report on Form 8-K filed August 27, 1999).
(2)(b)	Agreement and Plan of Merger among Alcoa, Omega Acquisition Corp. and Cordant Technologies Inc. dated as of March 14, 2000 (incorporated by reference to Exhibit 12(d)(1) to the Tender Offer Statement on Schedule TO filed by Alcoa and Omega Acquisition Corp. on March 20, 2000).
(2)(c)	Agreement and Plan of Merger among Alcoa, HMI Acquisition Corp. and Howmet International Inc. dated as of June 2, 2000 (incorporated by reference to Exhibit 12(d)(5) to Amendment No. 5 to the Tender Offer Statement on Schedule TO filed by Alcoa and HMI Acquisition Corp. on June 5, 2000).
(3)(a)	Articles of Incorporation of Alcoa, as amended (incorporated by reference to Exhibit 3(a) to Alcoa's Quarterly Report on Form 10-Q for the quarter ended June 30, 2000).
(3)(b)	By-Laws of Alcoa, as amended (incorporated by reference to Exhibit 3(b) to Alcoa's Annual Report on Form 10-K for the year ended December 31, 1998).
(4)(a)	Form of Indenture, dated as of September 30, 1993, between Alcoa and Chase Manhattan Trust Company, N.A., as successor Trustee (undated form of Indenture incorporated by reference to Exhibit 4(a) to Registration Statement No. 33-49997 on Form S-3).
(4)(b)	Form of proposed Warrants to Purchase Senior Debt Securities (included in Exhibit 4(c) as Exhibit A).
(4)(c)	Form of proposed Warrant Agreement relating to the Warrants to Purchase Senior Debt Securities (incorporated by reference to Exhibit 4(d) to Amendment No. 1 to Registration Statement No. 2-78009 on Form S-3).
(4)(d)	Form of Registered Security which is not an Original Issue Discount Security (included in Exhibit 4(a) as Exhibit A).
(4)(e)	Form of Registered Security which is an Original Issue Discount Security (included in Exhibit 4(a) as Exhibit B).
(4)(f)	Form of Bearer Security which is not an Original Issue Discount Security and form of Related Coupon (included in Exhibit 4(a) as Exhibit C).
(4)(g)	Form of Bearer Security which is an Original Issue Discount Security and form of Related Coupon (included in Exhibit 4(a) as Exhibit D).

Exhibit
Number

Exhibit

- (4)(h) Form of Certificate for Shares of Class B Stock (incorporated by reference to Exhibit 4(h) to Registration Statement No. 33-49997 on Form S-3).
- (4)(i) Form of Certificate for Shares of Common Stock (incorporated by reference to Exhibit 4(i) to Registration Statement No. 33-49997 on Form S-3).
- (4)(j) Form of Subordinated Indenture (including form of Subordinated Debt Security).*
- (4)(k) Certificate of Trust of Alcoa Trust I (incorporated by reference to Exhibit 4(k) to Registration Statement No. 333-59381 on Form S-3).
- (4)(l) Declaration of Trust of Alcoa Trust I (incorporated by reference to Exhibit 4(l) to Registration Statement No. 333-59381 on Form S-3).
- (4)(m) Form of Amended and Restated Trust Agreement of Alcoa Trust I (incorporated by reference to Exhibit 4(m) to Registration Statement No. 333-59381 on Form S-3).
- (4)(n) Form of Guarantee Agreement (incorporated by reference to Exhibit 4(n) to Registration Statement No. 333-59381 on Form S-3).
- (5)(a) Opinion of Thomas F. Seligson, Esq., Counsel of Alcoa.**
- (5)(b) Opinion of Skadden, Arps, Slate, Meagher & Flom LLP, special counsel to Alcoa and the Alcoa Trust.**
- (12) Computation of Ratio of Earnings to Fixed Charges.*
- (23)(a) Consent of PricewaterhouseCoopers LLP.*
- (23)(b) Consent of Thomas F. Seligson, Esq., counsel to Alcoa.**
- (23)(c) Consent of Skadden, Arps, Slate, Meagher & Flom LLP, special counsel to Alcoa.**
- (24) Powers of Attorney of certain officers and directors.*
- (25)(a) Form T-1 Statement of Eligibility under the Trust Indenture Act of 1939 of Chase Manhattan Trust Company, N.A., as successor trustee under the Senior Indenture.*
- (25)(b) Form T-1 Statement of Eligibility under the Trust Indenture Act of 1939 of Chase Manhattan Trust Company, N.A., as trustee under the Form of Subordinated Indenture.*
- (25)(c) Form T-1 Statement of Eligibility under the Trust Indenture Act of 1939 of Chase Manhattan Trust Company, N.A., as trustee under the Form of Amended and Restated Trust Agreement of Alcoa Trust I.*
- (25)(d) Form T-1 Statement of Eligibility under the Trust Indenture Act of 1939 of Chase Manhattan Trust Company, N.A., as trustee under the Form of Guarantee of Alcoa for the benefit of the holders of Trust Preferred Securities of the Alcoa Trust I.*

* Filed herewith.

** To be filed by amendment or as an exhibit to a document to be incorporated by reference herein.

ALCOA INC.

TO

CHASE MANHATTAN TRUST COMPANY, National Association

AS TRUSTEE

INDENTURE

DATED AS OF _____, 20__

\$ _____

[(SUBJECT TO AN INCREASE OF UP TO \$ _____ IF
AN OVER-ALLOTMENT OPTION IS EXERCISED)]

___% [CONVERTIBLE] SUBORDINATED DEBENTURES
DUE _____, 20__

Reconciliation and tie between the Trust Indenture Act of 1939 (including cross-references to provisions of Sections 310 to and including 317 which, pursuant to Section 318(c) of the Trust Indenture Act of 1939, as amended by the Trust Reform Act of 1990, are a part of and govern the Indenture whether or not physically contained therein) and the Indenture, dated as of _____, 20__.

Trust Indenture Act Section	Indenture Section
(S) 310 (a)(1), (2) and (5).....	6.9
(a)(3).....	Not Applicable
(a)(4).....	Not Applicable
(b).....	6.8
.....	6.10
(c).....	Not Applicable
(S) 311 (a).....	6.13
(b).....	6.13
(b)(2).....	7.3(a)
.....	7.3(a)
(S) 312 (a).....	7.1
.....	7.2(a)
(b).....	7.2(b)
(c).....	7.2(c)
(S) 313 (a).....	7.3(a), 7.3(b)
(b).....	7.3(a)
(c).....	7.3(a)
(d).....	7.3(c)
(S) 314 (a)(1), (2), (3) and (4).....	7.4
(b).....	Not Applicable
(c)(1).....	1.2
(c)(2).....	1.2
(c)(3).....	Not Applicable
(d).....	Not Applicable
(e).....	1.2
(f).....	Not Applicable
(S) 315 (a).....	6.1(a)
(b).....	6.2
(c).....	6.1(b)
(d).....	6.1(c)

	(d)(1)	6.1(a)(1)
	(d)(2)	6.1(c)(2)
	(d)(3)	6.1(c)(3)
	(e)	5.14
(S) 316	(a)	5.12
	(a)(1)(B)	5.13
	(a)(2)	Not Applicable
	(b)	5.8
	(c)	1.4(f)
(S) 317	(a)(1)	5.3
	(a)(2)	5.4
	(b)	10.3
(S) 318	(a)	1.7

Note: This reconciliation and tie shall not, for any purpose, be deemed to be a part of the [Convertible] Subordinated Indenture.

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[Annex A	Declaration of Trust
Annex B	Amended and Restated Trust Agreement
Annex C	Guarantee Agreement]

[CONVERTIBLE] SUBORDINATED INDENTURE (the "Indenture"), dated as of _____, 20__ between Alcoa Inc., A Pennsylvania corporation (hereinafter called the "Company") having its principal office at 201 Isabella Street, Pittsburgh, Pennsylvania, 15212-5858, and Chase Manhattan Trust Company, National Association, a national banking association existing under the laws of the United States of America, as Trustee (hereinafter called the "Trustee").

RECITALS OF THE COMPANY

WHEREAS, for its lawful corporate purposes, the Company has duly authorized the execution and delivery of this Indenture to provide for the issuance of its ___% [Convertible] Debentures Due _____, 20__(the "Debentures"), of substantially the tenor and amount hereinafter set forth;

WHEREAS, to provide the terms and conditions upon which the Debentures are to be authenticated, issued and delivered, the Company has duly authorized the execution of this Indenture; and,

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

NOW, THEREFORE, in consideration of the premises and the purchase of the Debentures by the holders thereof, it is mutually covenanted and agreed as follows for the equal and ratable benefit of the holders of Debentures:

ARTICLE I

DEFINITIONS AND OTHER PROVISIONS OF GENERAL APPLICATION

Section 1.1 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) all other terms used herein which are defined in the Trust Indenture Act, either directly or by reference therein, have the meanings assigned to them therein;

(c) all accounting terms not otherwise defined herein have the meanings assigned to them in accordance with generally accepted accounting principles, and the term "generally accepted accounting principles" with respect to any computation required or permitted hereunder shall mean such accounting principles which are generally accepted at the date or time of such computation; and

(d) the words "herein" 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.

"Act", when used with respect to any Holder, has the meaning specified in Section 1.4.

["Additional Amount" means, [with respect to the Trust Securities], the amount of Additional Interest paid by the Company on the Debentures.]

"Additional Interest" means the interest, if any, that shall accrue on any interest on the Debentures that is in arrears for more than one interest payment period or not paid during any Extension Period, which in either case shall accrue at the stated rate per annum specified or determined as specified in such Debenture and compounded quarterly.

["Additional Sums" has the meaning specified in Section 10.5.

["Additional Taxes" means the sum of any additional taxes, duties and other governmental charges to which the Trust has become subject from time to time as a result of a Tax Event.]

"Affiliate" of any specified Person means any other Person directly or indirectly controlling or controlled by or under direct or indirect common control with such specified Person; provided, however, that an Affiliate of the Company shall not be deemed to include the Trust. 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.

["Applicable Price" means (i) in the case of a Non-Stock Fundamental Change in which the holders of the Common Stock receive only cash, the amount of cash received by the holder of one share of Common Stock and (ii) in the event of any other Non-Stock Fundamental Change or any Common Stock Fundamental Change, the average of the Closing Prices for the Common Stock during the ten trading days prior to and including the record date for the determination of the

holders of Common Stock entitled to receive such securities, cash, or other property in connection with such Non-Stock Fundamental Change or Common Stock Fundamental Change or, if there is no such record date, the date upon which the holders of the Common Stock shall have the right to receive such securities, cash, or other property, in each case as adjusted in good faith by the Company to appropriately reflect any of the events referred to in Section 13.4.]

"Authenticating Agent" means any Person authorized by the Trustee pursuant to Section 6.14 to act on behalf of the Trustee to authenticate Debentures .

"Board of Directors" means either the board of directors of the Company or any committee of that board duly authorized to act hereunder.

"Board Resolution" means a copy of the resolution certified by the Secretary or an Assistant Secretary of the Company to have been duly adopted by the Board of Directors, or such committee of the Board of Directors or officers of the Company to which authority to act on behalf of the Board of Directors has been delegated, and to be in full force and effect on the date of such certification, and delivered to the Trustee.

"Business Day" means any day other than a Saturday or Sunday or a day on which banking institutions in the City of New York are authorized or required by law or executive order to remain closed or a day on which the corporate trust office of the Property Trustee, or the Corporate Trust Office of the Trustee, is closed for business.

["Closing Price" means on any day the reported last sale price on such day or, in case no sale takes place on such day, the average of the reported closing bid and asked prices in each case on the NYSE Consolidated Transactions Tape or, if the stock is not listed or admitted to trading on the NYSE, on the principal national securities exchange on which such stock is listed or admitted to trading or, if not listed or admitted to trading on any national securities exchange, or the Nasdaq National Market, or, if the stock is not quoted or admitted to trading on such quotation system, on the principal quotation system on which the stock may be listed or admitted to trading or quoted, or, if not listed or admitted to trading or quoted on any national securities exchange or quotation system, the average of the closing bid and asked prices as furnished by any NYSE member firm, selected by the Trustee in good faith for that purpose.]

"Commission" means the Securities and Exchange Commission, as from time to time constituted, created under the Securities Exchange Act of 1934, or if at any time after the execution of this instrument such Commission is not existing and performing the duties now assigned to it under the Trust Indenture Act, then the body performing such duties on such date.

"Common Securities" has the meaning specified in the first recital of this Indenture.

["Common Stock" means common stock, par value \$1.00, of the Company.]

["Common Stock Fundamental Change" means any Fundamental Change in which more than 50% of the value (as determined in good faith by the Board of Directors) of the consideration received by holders of Common Stock consists of common stock that for each of the ten consecutive trading days prior to the record date for the determination of the holders of Common Stock entitled to receive such common stock or, if there is no such record date, the date on which the holders of the Common Stock shall have the right to receive such Common Stock, has been admitted for listing or admitted for listing subject to notice of issuance on a national securities exchange or quoted on the Nasdaq National Market; provided, however, that a Fundamental Change shall not be a Common Stock Fundamental Change unless either (i) the Company continues to exist after the occurrence of such Fundamental Change and the outstanding Preferred Securities continue to exist as outstanding Preferred Securities or (ii) not later than the occurrence of such Fundamental Change, the outstanding Preferred Securities are converted into or exchanged for shares of convertible preferred stock of an entity succeeding to the business of the Company or a Subsidiary thereof, which convertible preferred stock has powers, preferences, and relative, participating, optional, or other rights, and qualifications, limitations, and restrictions, substantially similar to those of the Preferred Securities.]

"Company" means the Person named as the "Company" in the first paragraph of this instrument 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 Office" means the office or agency to be maintained by the Company pursuant to Section 10.2.

"Company Request" and "Company Order" mean, respectively, the written request or order signed in the name of the Company by its Chairman of the Board, its Vice Chairman, its President or a Vice President, and by its Treasurer, an Assistant Treasurer, its Controller, its Secretary or an Assistant Secretary, and delivered to the Trustee.

["Conversion Agent" has the meaning specified in Section 13.2.

"Conversion Date" has the meaning specified in Section 13.2.

"Conversion Price" has the meaning specified in Section 13.1.]

"Corporate Trust Office" means the principal office of Chase Manhattan Trust Company, National Association located at One Oxford Centre, Suite 1100, 301 Grant Street, Pittsburgh, Pennsylvania, or such other location at which at any particular time corporate trust business of the Trustee shall be administered.

["Current Market Price," with respect to Common Stock, means for any day the last reported sale price, regular way, on such day, or, if no sale takes place on such day, the average of the reported closing bid and asked prices on such day, regular way, in either case as reported on the NYSE Composite Transactions Tape, or, if Common Stock is not listed or admitted to trading on the NYSE on such day, on the principal national securities exchange on which Common Stock is listed or admitted to trading, if Common Stock is listed on a national securities exchange, or the Nasdaq National Market, or, if Common Stock is not quoted or admitted to trading on such quotation system, on the principal quotation system on which the Common Stock may be listed or admitted to trading or quoted, or, if not listed or admitted to trading or quoted on any national securities exchange or quotation system, the average of the closing bid and asked prices of Common Stock in the over-the-counter market on the day in question as reported by the National Quotation Bureau Incorporated, or a similar generally accepted reporting service, or, if not so

available in such manner, as furnished by any NYSE member firm selected from time to time by the Board of Directors for that purpose or, if not so available in such manner, as otherwise determined in good faith by the Board of Directors.]

"Debentures" or "Debenture" means any debt securities or debt security, as the case may be, authenticated and delivered under this Indenture.

"Debt" means, with respect to any Person, whether recourse is to all or a portion of the assets of such Person and whether or not contingent, (i) every obligation of such Person for money borrowed; (ii) every obligation of such Person evidenced by bonds, debentures, notes or other similar instruments, including obligations incurred in connection with the acquisition of property, assets or businesses; (iii) every reimbursement obligation of such Person with respect to letters of credit, bankers' acceptances or similar facilities issued for the account of such Person; (iv) every obligation of such Person issued or assumed as the deferred purchase price of property or services (but excluding trade accounts payable or accrued liabilities arising in the ordinary course of business); (v) every capital lease obligation of such Person; and (vi) every obligation of the type referred to in clauses (i) through (v) of another Person and all dividends of another Person the payment of which, in either case, such Person has guaranteed or for which such Person is responsible or liable, directly or indirectly, as obligor or otherwise.

"Defaulted Interest" has the meaning specified in Section 3.7.

["Delaware Trustee" means Chase Manhattan Bank Delaware.]

"Depositary" means, with respect to the Debentures issuable or issued in whole or in part in the form of one or more Global Securities, the Person designated as Depositary by the Company (or any successor thereto).

"Dollar" means the currency of the United States of America as at the time of payment is legal tender for the payment of public and private debts.

"Events of Default" has the meaning specified in Article 5.

["Expiration Time" has the meaning specified in Section 13.3(e).]

"Extension Period" has the meaning specified in Section 3.11.

["Fundamental Change" means the occurrence of any Transaction or event in connection with a plan pursuant to which all or substantially all of the Common Stock shall be exchanged for, converted into, acquired for, or constitute solely the right to receive securities, cash, or other property (whether by means of an exchange offer, liquidation, tender offer, consolidation, merger, combination, reclassification, recapitalization, or otherwise), provided, that, in the case of a plan involving more than one such Transaction or event, for purposes of adjustment of the conversion price, such Fundamental Change shall be deemed to have occurred when substantially all of the Common Stock shall be exchanged for, converted into, or acquired for or constitute solely the right to receive securities, cash, or other property, but the adjustment shall be based upon consideration that a holder of Common Stock received in such Transaction or event as a result of which more than 50% of the Common Stock shall have been exchanged for, converted into, or acquired for or constitute solely the right to receive securities, cash, or other property.]

"Global Security" means a Debenture in the form prescribed in Section 2.4 evidencing all or part of the Debentures, issued to the Depositary or its nominee, and registered in the name of such Depositary or its nominee.

"Government Obligations" means securities which are (i) direct obligations of the United States of America for the payment of which its full faith and credit is pledged or (ii) obligations of any Person controlled or supervised by and acting as an agency or instrumentality of the United States of America the payment of which is unconditionally guaranteed as a full faith and credit obligation by the United States of America, which, in either case are not callable or redeemable at the option of the issuer thereof. Government Obligations shall include a depositary receipt issued by a bank or trust company as custodian with respect to any such Government Obligation or a specific payment of interest on or principal of any such Government Obligation held by such custodian for the account of the holder of a depositary receipt; provided, however, 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 Government Obligation or the specific payment of interest on or principal of the Government Obligation evidenced by such depositary receipt.

["Guarantee" means the guarantee by the Company of distributions on the Preferred Securities of the Trust to the extent provided in the Guarantee Agreement, substantially in the form attached hereto as Annex C, as amended from time to time.]

"Holder" means a Person in whose name a Debenture is registered in the Securities Register.

"Indenture" means 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.

"Interest Payment Date" means as to the Debentures the Stated Maturity of an installment of interest on such Debentures.

"Interest Rate" means the rate of interest specified or determined as specified in each Debenture as being the rate of interest payable on such Debenture.

["Investment Company Event" means, the receipt by the Property Trustee, on behalf of the Trust, of an Opinion of Counsel, rendered by a law firm having a recognized national tax and securities practice (which opinion shall not have been rescinded by such law firm), to the effect that, as a result of the occurrence of a change in law or regulation or a change in interpretation or application of law or regulation by any legislative body, court, governmental agency or regulatory authority (a "Change in 1940 Act Law"), there is more than an insubstantial risk that the Trust is or will be considered an "investment company" that is required to be registered under the 1940 Act, which Change in 1940 Act Law becomes effective on or after the date of original issuance of the Preferred Securities of the Trust.]

"Maturity" when used with respect to the Debentures, means the date on which the principal of the Debentures become due and payable as herein provided, whether at the Stated Maturity or by declaration of acceleration, call or redemption or otherwise.

"1940 Act" means the Investment Company Act of 1940, as amended.

["Non Book-Entry Preferred Securities" has the meaning specified in Section 3.1 5.]

["Non-Stock Fundamental Change" means any Fundamental Change other than a Common Stock Fundamental Change.

"Notice of Conversion" means the notice given by a holder of Preferred Securities to the Conversion Agent directing the Conversion Agent to exchange such Preferred Securities for Debentures and to convert such Debentures into Common Stock on behalf of such holder. Such notice is substantially in the form set forth in Exhibit E to the Trust Agreement.]

"Notice of Default" has the meaning specified in Section 5.1(c).

[NYSE" means The New York Stock Exchange Inc..]

"Officers' Certificate" means a certificate signed by (i) the Chairman of the Board, a Vice Chairman, the President or a Vice President, and by (ii) the Treasurer, an Assistant Treasurer, the Controller, the Secretary or an Assistant Secretary, of the Company, and delivered to the Trustee.

"Opinion of Counsel" means a written opinion of counsel, who may be counsel for the Company, [the Trust,] or the Trustee, but who may be an employee thereof, and who shall be reasonably acceptable to the Trustee.

"Outstanding" means, as of the date of determination, all Debentures theretofore authenticated and delivered under this Indenture, except:

(i) Debentures theretofore canceled by the Trustee or delivered to the Trustee for cancellation;

(ii) Debentures for the payment of which money in the necessary amount has been theretofore irrevocably deposited with the Trustee or any Paying Agent in trust for the Holders of such Debentures; and

(iii) Debentures in substitution for or in lieu of which other Debentures have been authenticated and delivered or which have been

paid pursuant to Section 3.6, or which have been converted into Common Stock pursuant to Section 13.1, unless proof satisfactory to the Trustee is presented that any Debentures are held by Holders in whose hands such Debentures are valid, binding and legal obligations of the Company;

provided, however, that in determining whether the Holders of the requisite principal amount of Outstanding Debentures have given any request, demand, authorization, direction, notice, consent or waiver hereunder, Debentures owned by the Company or any other obligor upon the Debentures or any Affiliate of the Company or 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 request, demand, authorization, direction, notice, consent or waiver, only Debentures which the Trustee actually knows to be so owned shall be so disregarded. Debentures so owned which have been pledged in good faith may be regarded as Outstanding if the pledgee establishes to the satisfaction of the Trustee the pledgee's right so to act with respect to such Debentures and that the pledgee is not the Company or any other obligor upon the Debentures or any Affiliate of the Company or such other obligor. Upon request of the Trustee, the Company shall furnish to the Trustee promptly an Officers' Certificate listing and identifying all Debentures, if any, known by the Company to be owned or held by or for the account of the Company, or any other obligor on the Debentures or any Affiliate of the Company or such obligor, and, subject to the provisions of Section 6.1, the Trustee shall be entitled to accept such Officers' Certificate as conclusive evidence of the facts therein set forth and of the fact that all Debentures not listed therein are Outstanding for the purpose of any such determination.

"Paying Agent" means the Trustee or any Person or Persons designated by the Company at any time to pay the principal of or interest on any Debentures on behalf of the Company. The Company may, at any time, rescind the designation of any Paying Agent.

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

"Predecessor Debenture" of any particular Debenture means every previous Debenture evidencing all or a portion of the same debt as that evidenced by such particular Debenture, and, for the purposes of this definition, any Debenture authenticated and delivered under Section 3.6 in lieu of a lost, destroyed or stolen

Debenture shall be deemed to evidence the same debt as the lost, destroyed or stolen Debenture.

["Preferred Securities" means ___ % [Convertible] Preferred Securities with a liquidation amount of \$50 per Preferred Security having an aggregate liquidation amount with respect to the assets of the Trust of \$ _____ [or \$ _____ if the over-allotment option is exercised).]

"Proceeding" has the meaning specified in Section 12.2.

["Property Trustee" means, in respect of the Trust, the commercial bank or trust company identified as the "Property Trustee" in the Trust Agreement, solely in its capacity as Property Trustee of the Trust under the Trust Agreement and not in its individual capacity, or its successor in interest in such capacity, or any successor property trustee appointed as therein provided.]

["Purchased Shares" has the meaning specified in Section 13.4(e).]

["Purchaser Stock Price" means, with respect to any Common Stock Fundamental Change, the average of the Closing Prices for the common stock received in such Common Stock Fundamental Change for the ten consecutive trading days prior to and including the record date for the determination of the holders of Common Stock entitled to receive such common stock or if there is no such record date, the date on which the holders of Common Stock shall have the right to receive such common stock, as adjusted in good faith by the Company to appropriately reflect any of the events referred to in Section 13.4.]

"Redemption Date," when used with respect to any Debenture to be redeemed, means the date fixed for such redemption by or pursuant to this Indenture.

"Redemption Price" has the meaning specified in Section 11.3.

["Reference Date" has the meaning specified in Section 13.4(c).]

["Reference Market Price" initially means \$_____ (which is an amount equal to 66 2/3% of the reported last sale price for the Common Stock on the NYSE Consolidated Transactions Tape on _____, 20__), and in the event of any adjustment of the Conversion Price other than as a result of a Non-Stock Fundamental Change, the Reference Market Price shall also be adjusted by the Company so that the ratio of the Reference Market Price to the Conversion Price

after giving effect to any such adjustment shall always be the same as the ratio of the initial Reference Market Price to the initial Conversion Price of the Debentures.]

"Regular Record Date" means for the interest payable on any Interest Payment Date the fifteenth day (whether or not a Business Day) next preceding such Interest Payment Date.

"Responsible Officer" when used with respect to the Trustee means any officer of the Trustee assigned by the Trustee from time to time to administer this Indenture, or any other officer to whom such matters may be referred.

["Rights" has the meaning specified in Section 13.2(f).]

"Securities Register" and "Securities Registrar" have the respective meanings specified in Section 3.5.

"Senior Debt" means the principal of (and premium, if any) and interest, if any (including interest accruing on or after the filing of any petition in bankruptcy or for reorganization relating to the Company whether or not such claim for post-petition interest is allowed in such proceeding), on Debt of the Company, whether incurred on or prior to the date of the Indenture or thereafter incurred, unless, in the instrument creating or evidencing the same or pursuant to which the same is outstanding, it is provided that such obligations are not superior in right of payment to the Debentures.

["Special Event" means a Tax Event or an Investment Company Event.]

"Special Record Date" for the payment of any Defaulted Interest means a date fixed by the Trustee pursuant to Section 3.7.

"Stated Maturity" when used with respect to the Debentures or any installment of principal thereof or interest thereon means the date specified in the

Debentures as the fixed date on which the principal of the Debentures or such installment of interest is due and payable.

"Subsidiary" means any corporation of which at the time of determination the Company and/or one or more Subsidiaries owns or controls directly or indirectly more than 50% of the outstanding shares of voting stock. For purposes of this definition, "voting stock" means stock which has voting power for the election of directors, whether at all times or only so long as no senior class of stock has such voting power by reason of any contingency.

["Tax Event" means the receipt by the Property Trustee, on behalf of the Trust, of an Opinion of Counsel, rendered by a law firm having a national tax and securities practice (which opinion shall not have been rescinded by such law firm), to the effect that, as a result of any amendment to, or change (including any announced prospective change) in, the laws (or any regulations thereunder) of the United States or any political subdivision or taxing authority thereof or therein affecting taxation, or as a result of any official administrative pronouncement or judicial decision interpreting or applying such laws or regulations, which amendment or change is effective or such pronouncement or decision is announced on or after the date of issuance of the Preferred Securities under the Trust Agreement, there is more than an insubstantial risk in each case after the date hereof that (i) the Trust is, or will be within 90 days of the date thereof, subject to United States Federal income tax with respect to income received or accrued on the Debentures, (ii) interest payable by the Company on the Debentures is not, or will not be, within 90 days after the date thereof, deductible, in whole or in part, for United States Federal income tax purposes or (iii) the Trust is, or will be within 90 days after the date thereof, subject to more than a de minimis amount of other taxes, duties, assessments or other governmental charges.]

["Transaction" has the meaning specified in Section 13.4(a).]

["Trust" means Alcoa Trust I, a Delaware business trust formed under the Trust Agreement.]

["Trust Agreement" means the Declaration of Trust substantially in the form attached hereto as Annex A, as amended by the Amended and Restated Trust Agreement substantially in the form attached hereto as Annex B, as amended from time to time.]

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

"Trust Indenture Act" means the Trust Indenture Act of 1939 (15 U.S.C. (S)(S) 77aaa-77bbb), as amended and as in effect on the date as of this Indenture.

["Trust Securities" means the Common Securities and Preferred Securities.]

"Vice President" when used with respect to the Company, means any vice president, whether or not designated by a number or a word or words added before or after the title "vice president."

Section 1.2 Compliance Certificate and Opinions. Upon any

application or request by the Company to the Trustee to take any action under any provision of this Indenture, the Company shall furnish to the Trustee an Officers' Certificate stating that all conditions precedent (including covenants, compliance with which constitutes a condition 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 (including covenants compliance with which constitutes a condition precedent), if any, have been complied with, except that in the case of any such application or request as to which the furnishing of such documents is specifically required by any provision of this Indenture relating to such particular application or request, no additional certificate or opinion need be furnished.

Every certificate or opinion with respect to compliance with a condition or covenant provided for in this Indenture (other than certificates provided pursuant to Section 10.5) shall include:

(a) a statement that each individual signing such certificate or opinion has read such covenant or condition and the definitions herein relating thereto;

(b) a brief statement as to the nature and scope of the examination or investigation upon which the statements or opinions contained in such certificate or opinion are based;

(c) a statement that, in the opinion of each such individual, he has made such examination or investigation as is necessary to enable him to express an informed opinion as to whether or not such covenant or condition has been complied with; and

(d) a statement as to whether, in the opinion of each such individual, such condition or covenant has been complied with.

Section 1.3 Forms of Documents Delivered to Trustee. 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.

Any certificate 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 matters upon which his certificate or opinion is based are erroneous. Any such certificate or Opinion of Counsel may be based, insofar as it relates to factual matters, upon a certificate 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 or opinion or representations with respect to such matters are erroneous.

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 1.4 Acts of Holders. (a) Any request, demand, authorization,

direction, notice, consent, waiver or other action provided by this Indenture to be given to or taken by Holders may be embodied in and evidenced by one or more instruments of substantially similar tenor signed by such Holders in person or by an

agent duly appointed in writing; and, except as herein otherwise expressly provided, such action shall become effective when such instrument or instruments is or are delivered to the Trustee, and, where it is hereby expressly required, to the Company. Such instrument or instruments (and the action embodied therein and evidenced thereby) are herein sometimes referred to as the "Act" of the Holders signing such instrument or instruments. Proof of execution of any such instrument or of a writing appointing any such agent shall be sufficient for any purpose of this Indenture and (subject to Section 6.1) conclusive in favor of the Trustee and the Company and any agent of the Trustee or the Company, if made in the manner provided in this Section.

(b) The fact and date of the execution by any Person of any such instrument or writing may be proved by the affidavit of a witness of such execution or by the certificate of any notary public or other officer authorized by law to take acknowledgments of deeds, certifying that the individual signing such instrument or writing acknowledged to him the execution thereof. Where such execution is by a Person acting in other than his individual capacity, such certificate or affidavit shall also constitute sufficient proof of his authority.

(c) The fact and date of the execution by any Person of any such instrument or writing, or the authority of the Person executing the same, may also be proved in any other manner which the Trustee deems sufficient and in accordance with such reasonable rules as the Trustee may determine.

(d) The ownership of Debentures shall be proved by the Securities Register.

(e) Any request, demand, authorization, direction, notice, consent, waiver or other action by the Holder of any Debenture shall bind every future Holder of the same Debenture and the Holder of every Debenture issued upon the transfer thereof or in exchange therefor or in lieu thereof in respect of anything done or suffered to be done by the Trustee or the Company in reliance thereon, whether or not notation of such action is made upon such Debenture.

(f) The Company may, but shall not be obligated to, fix a record date for the purpose of determining the Holders entitled to take any action under this Indenture by vote or consent. If a record date is fixed, those Persons who

were Holders at such record date (or their duly designated proxies), and only those Persons, shall be entitled to take such action by vote or consent or to revoke any vote or consent previously given, whether or not such Persons continue to be Holders after such record date.

(g) Without limiting the foregoing, a Holder entitled hereunder to give or take any such action with regard to any particular Debenture may do so with regard to all or any part of the principal amount of such Debenture or by one or more duly appointed agents each of which may do so pursuant to such appointment with regard to all or any different part of such principal amount.

Section 1.5 Notices, Etc. to Trustee and Company. Any request,

demand, authorization, direction, notice, consent, waiver or Act of Holders or other document provided or permitted by this Indenture to be made upon, given or furnished to, or filed with

(a) the Trustee by any Holder or by the Company shall be sufficient for every purpose hereunder if made, given, furnished or filed in writing to or with the Trustee at its Corporate Trust Office, or

(b) the Company by the Trustee or by any Holder shall be sufficient for every purpose (except as otherwise provided in Section 5.1 hereof) hereunder if in writing and mailed, first class, postage prepaid, to the Company addressed to it at the address of its principal office specified in the first paragraph of this instrument or at any other address previously furnished in writing to the Trustee by the Company.

Section 1.6 Notice to Holders; Waiver. Where this Indenture

provides for notice to Holders of any event, such notice shall be sufficiently given (unless otherwise herein expressly provided) if in writing and mailed, first class postage prepaid, to each Holder affected by such event, at the address of such Holder as it appears in the Securities Register on the date such notice is mailed, which shall be not later than the latest date, and not earlier than the earliest date, prescribed for the giving of such notice. 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. 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 filed with the Trustee, but such filing shall not be a condition precedent to the validity of any action taken in reliance upon such waiver.

In case by reason of the suspension of regular mail service or by reason of any other cause it shall be impracticable to give such notice by mail, then such notification as shall be made with the approval of the Trustee shall constitute a sufficient notification for every purpose hereunder.

Section 1.7 Conflict with Trust Indenture Act. If any provision of

this Indenture limits, qualifies or conflicts with a provision of the Trust Indenture Act that is required under such act to be a part of and govern this Indenture, the latter provision shall control. If any provision of this Indenture modifies or excludes any provision of the Trust Indenture Act that may be so modified or excluded, the former provision shall be deemed to apply.

Section 1.8 Effect 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 1.9 Successors and Assigns. All covenants and agreements

in this Indenture by the Company shall bind its successors and assigns, whether so expressed or not.

Section 1.10 Separability Clause. In case any provision in this

Indenture or in the Debentures 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 1.11 Benefits of Indenture. [The Company's obligations under

this Indenture and the Debentures will also be for the benefit of the holders from time to time of the Preferred Securities.] Nothing in this Indenture or in the Debentures, express or implied, shall give to any Person, other than the parties thereto, any Paying Agent and their successors and assigns, [the holders of the Preferred Securities] and the Holders of the Debentures, any benefit or any legal or equitable right, remedy or claim under this Indenture.

Section 1.12 Governing Law. This Indenture and the Debentures shall

be governed by and construed in accordance with the laws of the State of New York without regard to its principles of conflicts of laws.

Section 1.13 Non-Business Days. In any case where any Interest

Payment Date, Redemption Date, or Stated Maturity of any Debenture shall not be a Business Day, then (notwithstanding any other provision of this Indenture or the Debentures) payment of interest or principal payable on such date will be made on the next succeeding day that is a Business Day (and without any interest or other payment in respect of any such delay) with the same force and effect as if made on the Interest Payment Date or Redemption Date or at the Stated Maturity.

ARTICLE II

DEBENTURE FORM

Section 2.1 Forms Generally. The Debentures and the Trustee's

certificate of authentication shall be in substantially the forms set forth in this Article and may have such letters, numbers or other marks of identification and such legends or endorsements placed thereon as may be required to comply with applicable tax laws or the rules of any securities exchange or as may, consistently herewith, be determined by the officers executing such Debentures, as evidenced by their execution of the Debentures.

The definitive Debentures shall be typewritten, printed, lithographed or engraved or produced by any combination of these methods, if required by any securities exchange on which the Debentures may be listed, on a steel engraved border or steel engraved borders or may be produced in any other manner permitted by the rules of any securities exchange on which the Debentures may be listed, all as determined by the officers executing such Debentures, as evidenced by their execution of such Debentures.

Section 2.2 Form of Face of Debenture.

___% [Convertible] Subordinated Debenture due _____, 20__.

No. \$

Alcoa Inc., a corporation organized and existing under the laws of Pennsylvania (hereinafter called the "Company", which term includes any successor corporation under the Indenture hereinafter referred to), for value received, hereby promises to pay to _____, or registered assigns, the principal sum of _____ on _____, 20__ and to pay interest on said principal sum from _____, 20__ or from the most recent interest payment date (each such date, an "Interest Payment Date") to which interest has been paid or duly provided for, at the rate of ___% per annum, subject to deferral as set forth herein, on _____, _____, _____ and _____ of each year, commencing _____, 20__ until the principal hereof is paid or duly provided for or made available for payment.

Reference is hereby made to the further provisions of this Debenture set forth on the reverse hereof, which further provisions shall for all purposes have the same effect as if set forth at this place.

Unless the certificate of authentication hereon has been executed by the Trustee referred to on the reverse hereof by manual signature, this Debenture shall not be entitled to any benefit under the Indenture or be valid or obligatory for any purpose.

IN WITNESS WHEREOF, the Company has caused this instrument to be duly executed.

Dated:

ALCOA INC.

BY: _____

ATTEST

Name:
Title:

Section 2.3 Form of Reverse of Debenture. This Debenture is one of

a duly authorized issue of Debentures of the Company (herein called the "Debentures") limited to the aggregate principal amount of \$ _____, issued under an Indenture, dated as of _____, 20__ (herein called the "Indenture"), between the Company and Chase Manhattan Trust Company, National Association, as Trustee (herein called the "Trustee", which term includes any successor trustee under the Indenture), to which Indenture and all indentures supplemental thereto reference is hereby made for a statement of the respective rights, limitations of rights, duties and immunities thereunder of the Trustee, the Company and the Holders of the Debentures, and of the terms upon which the Debentures are, and are to be, authenticated and delivered. All terms used in this Debenture that are defined in the Indenture shall have the meanings assigned to them in the Indenture.

The amount of interest payable for any period will be computed on the basis of a 360-day year of twelve 30-day months. For periods less than a full month, interest shall be computed on the actual number of elapsed days based on a 360-day year. In the event that any date on which interest is payable on this Debenture is not a Business Day, then a payment of the interest on such date will be made on the next succeeding day which is a Business Day (and without any interest or other payment in respect of any such delay) with the same force and effect as if made on the date the payment was originally payable. A "Business Day" shall mean any day other than a Saturday or a Sunday or a day on which banking institutions in the

City of New York are authorized or required by law or executive order to remain closed or a day on which the Corporate Trust Office of the Trustee[, or the principal office of the Property Trustee under the Trust Agreement] is closed for business. The interest installment so payable, and punctually paid or duly provided for, on any Interest Payment Date will, as provided in the Indenture, be paid to the Person in whose name this Debenture (or one or more Predecessor Debentures, as defined in the Indenture) is registered at the close of business on the Regular Record Date, for such interest installment which shall be the date which is the fifteenth day (whether or not a Business Day) next preceding such Interest Payment Date. Any such interest installment not so punctually paid or duly provided for shall forthwith cease to be payable to the Holder on such Regular Record Date and may either be paid to the Person in whose name this Debenture (or one or more Predecessor Debentures) is registered at the close of business on a Special Record Date for the payment of such Defaulted Interest to be fixed by the Trustee, notice whereof shall be given to Holders of Debentures not less than 10 days prior to such Special Record Date, or be paid at any time in any other lawful manner not inconsistent with the requirements of any securities exchange on which the Debentures may be listed, and upon such notice as may be required by such exchange, all as more fully provided in the Indenture.

The Company shall have the right at any time during the term of this Debenture, from time to time, to extend the interest payment period of such Debenture for up to [20 consecutive quarters] with respect to each deferral period (each such deferral period an "Extension Period"), during which periods the Company shall have the right not to make payments of interest on any Interest Payment Date, and at the end of which the Company shall pay all interest then accrued and unpaid (together with Additional Interest, if any, thereon to the extent permitted by applicable law); provided that during any such Extension Period, the Company shall not (a) declare or pay any dividend on, make distributions with respect to, or redeem, purchase or make a liquidation payment with respect to, any of its Common Stock (other than (i) purchases or acquisitions of shares of Common Stock in connection with the satisfaction by the Company of its obligations under any employee benefit plan, (ii) as a result of a reclassification of the Company's Common Stock or the exchange or conversion of one class or series of the Company's Common Stock for another class or series of the Company's Common Stock, (iii) the purchase of fractional interests in shares of the Company's Common Stock pursuant to the conversion or exchange provisions of such Common Stock of the Company or the security being converted or exchanged or (iv) purchases or acquisitions of shares of Common Stock to be used in connection with acquisitions of Common Stock by

shareholders pursuant to the Company's dividend reinvestment plan) or make any guarantee payments with respect to the foregoing and (b) the Company shall not make any payment of principal or premium, if any, on or repurchase any debt securities (including guarantees) other than at stated maturity issued by the Company which rank pari passu with or junior to the Debentures. Prior to the termination of any such Extension Period, the Company may further extend the interest payment period, provided that no Extension Period shall exceed [20 consecutive quarters] or extend beyond the Stated Maturity of the Debenture. Upon the termination of any such Extension Period and upon the payment of all accrued and unpaid interest and any Additional Interest then due, the Company may elect to begin a new Extension Period, subject to the above requirements. No interest shall be due and payable during an Extension Period except at the end thereof. The Company shall give the Trustee, [the Property Trustee and the Administrative Trustees (as defined in the Trust Agreement)] notice of its selection of an Extension Period at least one Business Day prior to [the earlier of (i) the record date for the date the distributions on the Preferred Securities (or if no Preferred Securities are outstanding, for] the date interest on the Debentures) would have been payable except for the election to begin such Extension Period and (ii) the date [the Property Trustee (or if no Preferred Securities are outstanding,) the Debenture Trustee) is required to give notice to the NYSE or other applicable self-regulatory organizations [or to holders of [such Preferred Securities (or, if no Preferred Securities are outstanding, to the holders of] such Debentures) of the record date.

Payment of the principal of (and premium, if any) and interest on this Debenture will be made [if a Global Security is issued - to The Depository Trust Company or its nominee] [if securities in definitive form are issued - at the office or agency of the Paying Agent maintained for that purpose in the United States], in such coin or currency of the United States of America as at the time of payment is legal tender for payment of public and private debts provided, however, that at the option of the Company payment of interest may be made (i) by check mailed to the address of the Person entitled thereto as such address shall appear in the Securities Register or (ii) by wire transfer in immediately available funds at such place and to such account as may be designated by the Person entitled thereto as specified in the Securities Register.

The indebtedness evidenced by this Debenture is, to the extent provided in the Indenture, subordinate and subject in right of payments to the prior payment in full of all Senior Debt (as defined in the Indenture), and this Debenture is issued subject to the provisions of the Indenture with respect thereto. Each Holder of this Debenture, by accepting the same, (a) agrees to and shall be bound by such provisions, (b) authorizes and directs the Trustee on his behalf to take such actions as

may be necessary or appropriate to effectuate the subordination so provided and (c) appoints the Trustee his attorney-in-fact for any and all such purposes. Each Holder hereof, by his acceptance hereof, waives all notice of the acceptance of the subordination provisions contained herein and in the Indenture by each holder of Senior Debt, whether now outstanding or hereafter incurred, and waives reliance by each such holder upon said provisions.

At any time on or after _____, 20__, the Company may, at its option, subject to the terms and conditions of Article 11 of the Indenture, redeem this Debenture in whole at any time or in part from time to time, at the Redemption Prices set forth in Section 11.8 of the Indenture.

In the event of redemption of this Debenture in part only, a new Debenture or Debentures for the unredeemed portion hereof will be issued in the name of the Holder hereof upon the cancellation hereof.

[If a Special Event shall occur and be continuing, this Debenture shall be exchangeable for Preferred Securities in accordance with Section 11.9 of the Indenture or, in certain circumstances, redeemable by the Company in accordance with Section 11.8 of the Indenture.]

[Subject to the terms and conditions set forth in Article 13 of the Indenture, this Debenture is convertible, at the option of the Holder hereof, into shares of Common Stock.]

If an Event of Default shall occur and be continuing, the principal of the Debentures may be declared due and payable in the manner, with the effect and subject to the conditions provided in the Indenture.

The Indenture contains provisions for satisfaction, discharge and defeasance of the entire indebtedness of this Debenture upon compliance by the Company with certain conditions set forth in the Indenture.

The Indenture permits, with certain exceptions as therein provided, the amendment thereof and the modification of the rights and obligations of the Company and the rights of the Holders of the Debentures to be affected under the Indenture at any time by the Company and the Trustee with the consent of the Holders of a majority in principal amount of the Debentures. The Indenture also contains provisions permitting Holders of specified percentages in principal amount

of the Debentures at the time Outstanding, on behalf of the Holders of all Debentures, to waive compliance by the Company with certain provisions of the Indenture and certain past defaults under the Indenture and their consequences. Any such consent or waiver shall be conclusive and binding upon the Holder of this Debenture and upon all future Holders of this Debenture and of any Debenture issued upon the registration of transfer hereof or in exchange therefor or in lieu hereof, whether or not notation of such consent or waiver is made upon this Debenture.

As provided in and subject to the provisions of the Indenture, if an Event of Default occurs and is continuing, then and in every such case the Trustee or the Holders of not less than 25% in principal amount of the Outstanding Debentures may declare the principal amount of all the Debentures to be due and payable immediately, by a notice in writing to the Company (and to the Trustee if given by Holders); [provided that, if upon an Event of Default, the Trustee or the Holders of not less than 25% in principal amount of the Outstanding Debentures fail to declare the principal of all the Debentures to be immediately due and payable, the holders of at least 25% in aggregate liquidation amount of the Preferred Securities then outstanding shall have such right by a notice in writing to the Company and the Trustee,] and upon any such declaration such principal amount (or specified amount) of and the accrued interest (including any Additional Interest) on all the Debentures shall become immediately due and payable, provided that the payment of principal and interest (including any Additional Interest) on such Debentures shall remain subordinated to the extent provided in Article 12 of the Indenture.

No reference herein to the Indenture and no provision of this Debenture or of the Indenture shall alter or impair the obligation of the Company, which is absolute and unconditional, to pay the principal of (and premium, if any) and interest on this Debenture at the times, place and rate, and in the coin or currency, herein prescribed.

As provided in the Indenture and subject to certain limitations therein set forth, the transfer of this Debenture is registrable in the Securities Register, upon surrender of this Debenture for registration of transfer at the Company Office duly endorsed by, or accompanied by a written instrument of transfer in form satisfactory to the Company and the Securities Registrar duly executed by, the Holder hereof or his attorney duly authorized in writing, and thereupon one or more new Debentures, of authorized denominations and for the same aggregate principal amount, will be issued to the designated transferee or transferees. No service charge shall be made for any such registration of transfer or exchange, but the Company may require

payment of a sum sufficient to cover any tax or other governmental charge payable in connection therewith.

Prior to due presentment of this Debenture for registration of transfer, the Company, the Trustee and any agent of the Company or the Trustee may treat the Person in whose name this Debenture is registered as the owner hereof for all purposes, whether or not this Debenture be overdue, and neither the Company, the Trustee nor any such agent shall be affected by notice to the contrary.

The Debentures are issuable only in registered form without coupons in denominations of \$[1,000] and any integral multiple thereof. As provided in the Indenture and subject to certain limitations therein set forth, Debentures are exchangeable for a like aggregate principal amount of Debentures of a different authorized denomination, as requested by the Holder surrendering the same.

The Company and, by its acceptance of this Debenture or a beneficial interest therein, the Holder of, and any Person that acquires a beneficial interest in, this Debenture agree that for United States Federal, state and local tax purposes it is intended that this Debenture constitute indebtedness.

THE INDENTURE AND THIS DEBENTURE SHALL BE GOVERNED BY AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF NEW YORK WITHOUT REGARD TO CONFLICTS OF LAW PRINCIPLES THEREOF.

ASSIGNMENT FORM

To assign this Debenture, fill in the form below:

(I) or (we) assign and transfer this Security to _____

(Insert assignee's social security or tax I.D. no.)

(Print or type assignee's name, address and zip code)

and irrevocably appoint _____
agent to transfer this Debenture on the books of the Company. The agent may
substitute another to act for him.

Your Signature: _____
(Sign exactly as your name appears on
the other side of this Security)

Date: _____

Signature Guarantee: /1/ _____

/1/ Signature must be guaranteed by an institution which is a member of one of
the following recognized Signature Guaranty Programs: (i) The Securities
Transfer Agent Medallion Program (STAMP); (ii) The New York Stock Exchange
Medallion Program (MSP); (iii) The Stock Exchange Medallion Program (SEMP);
or (iv) in such other guarantee programs acceptable to the Trustee.

[NOTICE OF CONVERSION

To: Alcoa Inc.
201 Isabella Street
Pittsburgh, Pennsylvania 15212-5858

The undersigned owner of this Debenture hereby irrevocably exercises the option to convert this Debenture, or the portion below designated, into Common Stock of Alcoa Inc. in accordance with the terms of the Indenture referred to in this Debenture, and directs that the shares issuable and deliverable upon conversion, together with any check in payment for fractional shares, be issued in the name of and delivered to the undersigned, unless a different name has been indicated in the assignment below. If shares are to be issued in the name of a person other than the undersigned, the undersigned will pay all transfer taxes payable with respect thereto.

Date: _____, ____

in whole ___

in part ___

Portions of Debenture to be converted
(\$50 or integral multiples thereof):
\$_____

Signature (for conversion only)

Please Print or Typewrite Name and Address,
Including Zip Code, and Social Security or
Other Identifying Number

Signature Guarantee:/1/_____]

/1/ Signature must be guaranteed by an institution which is a member of one of the following recognized Signature Guaranty Programs: (i) The Securities
(continued...)

Section 2.4 Additional Provisions Required in Global Security. Any

Global Security issued hereunder shall, in addition to the provisions contained in Sections 2.2 and 2.3 bear a legend in substantially the following form:

"This Debenture is a Global Security within the meaning of the Indenture hereinafter referred to and is registered in the name of a Depositary or a nominee of a Depositary. This Debenture is exchangeable for Debentures registered in the name of a person other than the Depositary or its nominee only in the limited circumstances described in the Indenture and may not be transferred except as a whole 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."

Section 2.5 Form of Trustee's Certificate of Authentication. The

form of Trustee's Certificate of Authentication shall be as follows:/1/

"This is one of the Debentures designated therein referred to in the within mentioned Indenture.

Chase Manhattan Trust Company, National Association
as Trustee

By: _____
Authorized Officer

(...continued)

Transfer Agent Medallion Program (STAMP); (ii) The New York Stock Exchange Medallion Program (MSP); (iii) The Stock Exchange Medallion Program (SEMP); or (iv) in such other guarantee programs acceptable to the Trustee.

/1/ Or in the form provided in Section 6.14 in the event that a separate Authenticating Agent is appointed pursuant thereto.

[Section 2.6 Initial Issuance to Property Trustee. The Debentures

initially issued to the Property Trustee of the Trust shall be in the form of one or more individual certificates in definitive, fully registered form without coupons.]

ARTICLE III

THE DEBENTURES

Section 3.1 Amount of Debentures. The aggregate principal amount of

Debentures which may be authenticated and delivered under this Indenture is limited to the sum of (a) \$_____ [and (b) such aggregate principal amount (which may not exceed \$_____ aggregate principal amount) of Debentures, if any, issued as a result of the exercise of the over-allotment option] described in the Underwriting Agreement, dated _____, 20__, among the Company[, the Trust] and the underwriters named therein, and the Related Pricing Agreement, except for Debentures authenticated and delivered upon registration of, transfer of, or in exchange for, or in lieu of other Debentures pursuant to Sections 3.4, 3.5 or 3.6.

Section 3.2 Denominations. The Debentures shall be in registered

form without coupons and shall be issuable in denominations of [\$1,000] and any integral multiple thereof.

Section 3.3 Execution, Authentication, Delivery and Dating. The

Debentures shall be executed on behalf of the Company by a duly authorized officer on behalf of the Company, whose signature shall be certified by the Company's Secretary or one of its Assistant Secretaries. The signature of any of these officers on the Debentures may be manual or facsimile.

Debentures bearing the manual or facsimile signatures of individuals who were at any time the proper officers of the Company shall bind the Company, notwithstanding that such individuals or any of them have ceased to hold such offices prior to the authentication and delivery of such Debentures or did not hold such offices at the date of such Debentures. Upon the execution and delivery of this Indenture, or from time to time thereafter, Debentures may be executed by the Company and delivered to the Trustee for authentication, and the Trustee shall thereupon authenticate and make available for delivery said Debentures upon Company Order without any further action by the Company. Debentures may be

authenticated on original issuance from time to time and delivered pursuant to such procedures acceptable to the Trustee ("Procedures") as may be specified from time to time by Company Order. Procedures may authorize authentication and delivery pursuant to oral instructions of the Company or a duly authorized agent, which instructions shall be promptly confirmed in writing.

Each Debenture shall be dated the date of its authentication.

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

Section 3.4 Temporary Debentures. Pending the preparation of

definitive Debentures, the Company may execute, and upon Company Order the Trustee shall authenticate and deliver, temporary Debentures which are printed, lithographed, typewritten, mimeographed or otherwise produced, in any authorized denomination, substantially of the tenor of the definitive Debentures in lieu of which they are issued and with such appropriate insertions, omissions, substitutions and other variations as the officers executing such Debentures may determine, as evidenced by their execution of such Debentures.

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

Section 3.5 Registration, Transfer and Exchange. The Company shall

cause to be kept at the Corporate Trust Office of the Trustee a register in which, subject to such reasonable regulations as it may prescribe, the Company shall provide for the registration of Debentures and of transfers of Debentures. Such register is

herein sometimes referred to as the "Securities Register." The Trustee is hereby appointed "Securities Registrar" for the purpose of registering Debentures and transfers of Debentures as herein provided.

Upon surrender for registration of transfer of any Debenture at the office or agency of the Company designated for that purpose the Company shall execute, and the Trustee shall authenticate and deliver, in the name of the designated transferee or transferees, one or more new Debentures of any authorized denominations, of a like aggregate principal amount.

At the option of the Holder, Debentures may be exchanged for other Debentures of any authorized denominations, of a like aggregate principal amount, upon surrender of the Debentures to be exchanged at such office or agency. Whenever any Debentures are so surrendered for exchange, the Company shall execute, and the Trustee shall authenticate and deliver, the Debentures which the Holder making the exchange is entitled to receive.

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

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

No service charge shall be made to a Holder for any transfer or exchange of Debentures, but the Company may require payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in connection with any transfer or exchange of Debentures.

Notwithstanding any of the foregoing, any Global Security shall be exchangeable pursuant to this Section 3.5 for Debentures registered in the names of Persons other than the Depositary for such Debenture or its nominee only if (a) such Depositary notifies the Company that it is unwilling or unable to continue as Depositary for any Global Security and the Company shall not have appointed a successor depositary within 90 days after such notice, or if at any time such Depositary ceases

to be a clearing agency registered under the Securities Exchange Act of 1934, as amended, (b) the Company executes and delivers to the Trustee a Company Order that any Global Security shall be so exchangeable or (c) there shall have occurred and be continuing an Event of Default. Any Global Security shall be exchangeable for Debentures registered in such names as such Depositary shall direct.

Notwithstanding any other provisions in this Indenture, a Global Security may not be transferred except as a whole by the Depositary with respect to a Global Security to a nominee of such Depositary or by a nominee of such Depositary to such Depositary or another nominee of such Depositary.

Neither the Company nor the Trustee shall be required, pursuant to the provisions of this Section, (a) to issue, register the transfer of or exchange any Debenture during a period beginning at the opening of business 15 days before the day of selection for redemption of Debentures pursuant to Article 11 and ending at the close of business on the day of mailing of notice of redemption or (b) to register the transfer of or exchange any Debenture so selected for redemption in whole or in part, except, in the case of any Debenture to be redeemed in part, any portion thereof not to be redeemed.

Section 3.6 Mutilated, Destroyed, Lost and Stolen Debentures. If any

mutilated Debenture is surrendered to the Trustee together with such security or indemnity as may be required by the Company or the Trustee to save each of them harmless, the Company shall execute and the Trustee shall authenticate and deliver in exchange therefor a new Debenture and bearing a number not contemporaneously outstanding.

If there shall be delivered to the Company and to the Trustee (a) evidence to their satisfaction of the destruction, loss or theft of any Debenture, and (b) such security or indemnity as may be required by them to save each of them harmless, then, in the absence of actual notice to the Company or the Trustee that such Debenture has been acquired by a bona fide purchaser, the Company shall execute and upon a Company Order the Trustee shall authenticate and deliver, in lieu of any such destroyed, lost or stolen Debenture, a new Debenture bearing a number not contemporaneously outstanding.

In case any such mutilated, destroyed, lost or stolen Debenture has become or is about to become due and payable, the Company in its discretion may, instead of issuing a new Debenture, pay such Debenture.

Upon the issuance of any new Debenture 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 relation thereto and any other expenses (including the fees and expenses of the Trustee) connected therewith.

Every new Debenture issued pursuant to this Section in lieu of any destroyed, lost or stolen Debenture shall constitute an original additional contractual obligation of the Company, whether or not the destroyed, lost or stolen Debenture 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 Debentures duly issued hereunder.

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 Debentures.

Section 3.7 Payment of Interest; Interest Rights Preserved. Interest

on any Debenture which is payable, and is punctually paid or duly provided for, on any Interest Payment Date, shall be paid to the Person in whose name that Debenture (or one or more Predecessor Debentures) is registered at the close of business on the Regular Record Date, except that interest payable on the Stated Maturity of the Debentures shall be paid to the Person to whom principal is paid.

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

(a) The Company may elect to make payment of any Defaulted Interest to the Persons in whose names the Debentures (or their respective Predecessor Debentures) are registered at the close of business on a Special Record Date for the payment of such Defaulted Interest, which shall be fixed in the following manner. The Company shall notify the Trustee in writing of the amount of Defaulted Interest proposed to be paid on the Debentures and the date of the proposed payment, and at the same time the Company shall deposit with the Trustee an amount of money equal to the aggregate amount proposed to be paid in respect of such Defaulted Interest or shall make arrangements satisfactory to the Trustee for

such deposit prior to the date of the proposed payment, such money when deposited to be held in trust for the benefit of the Persons entitled to such Defaulted Interest as in this Clause provided. Thereupon the Trustee shall fix a Special Record Date for the payment of such Defaulted Interest which shall be not more than 15 days and not less than 10 days prior to the date of the proposed payment and not less than 10 days after the receipt by the Trustee of the notice of the proposed payment. The Trustee shall promptly notify the Company of such Special Record Date and, in the name and at the expense of the Company, shall cause notice of the proposed payment of such Defaulted Interest and the Special Record Date therefor to be mailed, first class, postage prepaid, to each Holder of the Debentures at the address of such Holder as it appears in the Securities Register not less than 10 days prior to such Special Record Date. Notice of the proposed payment of such Defaulted Interest and the Special Record Date therefor having been mailed as aforesaid, such Defaulted Interest shall be paid to the Persons in whose names the Debentures (or their respective Predecessor Debentures) are registered on such Special Record Date and shall no longer be payable pursuant to the following clause (b).

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

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

Section 3.8 Persons Deemed Owners. The Company, the Trustee, the

Paying Agent and any agent of the Company or the Trustee or the Paying Agent may treat the Person in whose name any Debenture is registered as the owner of such Debenture for the purpose of receiving payment of principal of and (subject to Section 3.7) interest on such Debenture and for all other purposes whatsoever, whether or not such Debenture be overdue, and neither the Company, the Trustee nor any agent of the Company or the Trustee shall be affected by notice to the contrary.

Section 3.9 Cancellation. All Debentures surrendered for payment,

redemption, conversion, registration of transfer or exchange shall, if surrendered to any Person other

than the Trustee, be delivered to the Trustee, and any such Debentures and Debentures surrendered directly to the Trustee for any such purpose shall be promptly canceled by it. The Company may at any time deliver or cause to be delivered to the Trustee for cancellation any Debentures previously authenticated and delivered hereunder which the Company may have acquired in any manner whatsoever, and all Debentures so delivered shall be promptly canceled by the Trustee. No Debentures shall be authenticated in lieu of or in exchange for any Debentures canceled as provided in this Section, except as expressly permitted by this Indenture. All canceled Debentures shall be destroyed by the Trustee and upon request, the Trustee shall deliver to the Company a certificate of such destruction.

Section 3.10 Computation of Interest. Interest on the Debentures

shall be computed on the basis of a 360-day year of twelve 30-day months.

Section 3.11 Deferrals of Interest Payment Dates. The Company shall

have the right, at any time during the term of the Debentures, from time to time to extend the interest payment period for the Debentures for up to [20 consecutive quarters] with respect to each deferral period (each, an "Extension Period") during which periods the Company shall have the right to not make payments of interest on any Interest Payment Date, and at the end of such Extension Period the Company shall pay all interest then accrued and unpaid thereon (together with Additional Interest thereon, if any, at the rate specified for the Debentures to the extent permitted by applicable law), provided, however, that during any such Extension Period, the Company shall not (a) declare or pay any dividend on, make distributions with respect to, or redeem, purchase or make a liquidation payment with respect to, any of its Common Stock (other than (i) purchases or acquisitions of shares of Common Stock in connection with the satisfaction by the Company of its obligations under any employee benefit plan, (ii) as a result of a reclassification of the Company's Common Stock or the exchange or conversion of one class or series of the Company's Common Stock for another class or series of the Company's Common Stock, (iii) the purchase of fractional interests in shares of the Company's Common Stock pursuant to the conversion or exchange provisions of such Common Stock of the Company or the security being converted or exchanged or (iv) purchases or acquisitions of shares of Common Stock to be used in connection with acquisitions of Common Stock by shareholders pursuant to the Company's dividend reinvestment plan) or make any guarantee payments with respect to the foregoing and (b) the Company shall not make any payment of principal or premium, if any, on or repurchase any debt securities (including guarantees) other than at stated maturity issued by the Company which rank pari passu with

or junior to the Debentures. Prior to the termination of any such Extension Period, the Company may further extend the interest payment period, provided that no Extension Period shall exceed [20 consecutive quarters] or extend beyond the Stated Maturity of the Debentures. Upon the termination of any such Extension Period and upon the payment of all accrued and unpaid interest and any Additional Interest then due, the Company may elect to begin a new Extension Period, subject to the above requirements. No interest shall be due and payable during an Extension Period except at the end thereof. The Company shall give the Trustee[, the Property Trustee and the Administrative Trustees (as defined in the Trust Agreement)] notice of its selection of an Extension Period at least one Business Day prior to the earlier of (i) the record date for the date [the distributions on the Preferred Securities (or if no Preferred Securities are outstanding, for the date] interest on the Debentures[] would have been payable except for the election to begin such Extension Period and (ii) the date the [Property Trustee (or if no Preferred Securities are outstanding, the Debenture] Trustee[] is required to give notice to the NYSE or other applicable self-regulatory organizations or[to holders of such Preferred Securities (or, if no Preferred Securities are outstanding,) to the holders of such Debentures[] of the record date. Such notice shall specify the period selected.

The Company, or the Trustee at the request of the Company, shall promptly give notice of the Company's selection of such Extension Period to the Holders of the outstanding Debentures.

Section 3.12 Right of Set-off. Notwithstanding anything to the

contrary in the Indenture, the Company shall have the right to set-off any payment it is otherwise required to make thereunder in respect of the Debentures to the extent the Company has theretofore made, or is concurrently on the date of such payment making, a payment relating to the Debentures under the Guarantee.

Section 3.13 Agreed Tax Treatment. Each Debenture issued hereunder

shall provide that the Company and, by its acceptance of a Debenture or a beneficial interest therein, the Holder of, and any Person that acquires a beneficial interest in, such Debenture agree that for United States Federal, state and local tax purposes it is intended that such Debenture constitute indebtedness.

Section 3.14 CUSIP Numbers. The Company in issuing the Debentures

may use "CUSIP" numbers (if then generally in use), and, if so, the Trustee shall use such "CUSIP" number in notices of redemption as a convenience to Holders; provided that any such notice may state that no representation is made as to the correctness of such number either as printed on the Debentures or as contained in

any notice of a redemption and that reliance may be placed only on the other identification numbers printed on the Debentures, and any such redemption shall not be affected by any defect in or omission of such numbers.

Section 3.15 Global Security. [(a) In connection with any

distribution of Debentures to holders of the Preferred Securities in connection with the involuntary or voluntary dissolution, winding up or liquidation of the Trust,

(i) the Debentures in certificated form may be presented to the Trustee by the Property Trustee in exchange for one or more global certificates in an aggregate principal amount equal to the aggregate principal amount of all outstanding Debentures (each a "Global Security"), to be registered in the name of the Depository, or its nominee, and delivered by the Trustee to the Depository, or its custodian, for crediting to the accounts of its participants pursuant to the procedures of the Depository. The Company upon any such presentation shall execute a Global Security in such aggregate principal amount and deliver the same to the Trustee for authentication and delivery in accordance with this Indenture; and

(ii) if any Preferred Securities are held in non book-entry certificated form, the Debentures in certificated form may be presented to the Trustee by the Property Trustee and any Preferred Security certificate which represents Preferred Securities other than Preferred Securities held by the Depository or its nominee ("Non Book-Entry Preferred Securities") will be deemed to represent beneficial interests in Debentures presented to the Trustee by the Property Trustee having an aggregate principal amount equal to the aggregate liquidation amount of the Non Book-Entry Preferred Securities until such Preferred Security certificates are presented to the Securities Registrar for registration of transfer or reissuance at which time such Non-Book Entry Preferred Security certificates will be canceled and a Debenture, registered in the name of the holder of the Preferred Security certificate or the transferee of the holder of such Preferred Security certificate, as the case may be, with an aggregate principal amount equal to the aggregate liquidation amount of the Preferred Security certificate canceled, will be executed by the Company and delivered to the Trustee for authentication and delivery in accordance with this Indenture. On issue of such Debentures, Debentures with an equivalent aggregate principal amount that were presented by the Property Trustee to the Trustee will be deemed to have been canceled.]

(b) A Global Security may be transferred, in whole but not in part, only to another nominee of the Depository, or to a nominee of such successor Depository.

(c) If (i) the Depository notifies the Company that it is unwilling or unable to continue as a depository for such Global Security and no successor depository shall have been appointed within 90 days by the Company, (ii) the Depository, at any time, ceases to be a clearing agency registered under the Exchange Act at which time the Depository is required to be so registered to act as such depository and no successor depository shall have been appointed within 90 days by the Company, (iii) the Company, in its sole discretion, determines that such Global Security shall be so exchangeable or (iv) there shall have occurred an Event of Default with respect to such Debentures, as the case may be, the Company will execute, and, subject to Article 3 of this Indenture, the Trustee, upon written notice from the Company and receipt of a Company Order, will authenticate and deliver the Debentures in definitive registered form without coupons, in authorized denominations, and in an aggregate principal amount equal to the principal amount of the Global Security in exchange for such Global Security. In addition, upon an Event of Default or if the Company may at any time determine that the Debenture shall no longer be represented by a Global Security, in such event the Company will execute, and subject to Section 3.5 of this Indenture, the Trustee, upon receipt of an Officers' Certificate evidencing such determination by the Company and a Company Order, will authenticate and make available for delivery the Debentures in definitive registered form without coupons, in authorized denominations, and in an aggregate principal amount equal to the principal amount of the Global Security in exchange for such Global Security. Upon the exchange of the Global Security for such Debentures in definitive registered form without coupons, in authorized denominations, the Global Security shall be canceled by the Trustee. Such Debentures in definitive registered form issued in exchange for the Global Security shall be registered in such names and in such authorized denominations as the Depository, pursuant to instructions from its direct or indirect participants or otherwise, shall instruct the Trustee. The Trustee shall deliver such Debentures to the Depository for delivery to the Persons in whose names such Debentures are so registered.

ARTICLE IV

SATISFACTION AND DISCHARGE OF INDENTURE;
UNCLAIMED MONEYS

Section 4.1 Satisfaction and Discharge of Indenture. (A) If at any

time (a) the Company shall have paid or caused to be paid the principal of, and interest, if any, on, all the Debentures theretofore authenticated (other than Debentures which have been destroyed, lost or stolen and which have been replaced or paid as provided in Section 3.6), in accordance with the terms of this Indenture and such Debentures or (b) as to Debentures not so paid, the Company shall have delivered to the Trustee for cancellation all Debentures theretofore authenticated (other than any Debentures which shall have been destroyed, lost or stolen and which shall have been replaced or paid as provided in Section 3.6) or (c) as to Debentures not so paid or delivered for cancellation, (i) all the Debentures shall have become due and payable, or are by their terms to become due and payable within one year or are to be called for redemption within one year under arrangements satisfactory to the Trustee for the giving of notice of redemption, and (ii) the Company shall have irrevocably deposited or caused to be deposited with the Trustee as trust funds money in an amount (other than moneys repaid by the Trustee or any paying agent to the Company in accordance with Section 4.4) or Government Obligations, maturing as to principal and interest at such times and in such amounts as will ensure the availability of money, or a combination thereof, sufficient in the opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, to pay (A) the principal and interest, if any, on all Debentures on each date that such principal or interest, if any, is due and payable and (B) any mandatory sinking fund or analogous payments on the dates on which such payments are due and payable in accordance with the terms of this Indenture and the Debentures; and if, in any such case, the Company shall also pay or cause to be paid all other sums payable hereunder by the Company then this Indenture shall cease to be of further effect (except as to (i) rights of registration of transfer and exchange of Debentures and the Company's right of optional redemption, if any, (ii) substitution of mutilated, defaced, destroyed, lost or stolen Debentures, (iii) the rights of Holders to receive Debentures, payments of principal thereof, and interest, if any, thereon, upon the original stated due dates therefor or any date of redemption (but not upon acceleration), and remaining rights of such Holders to receive mandatory sinking fund or analogous payments, if any, (iv) the rights, obligations, duties and immunities of the Trustee hereunder, (v) the rights of Holders as beneficiaries

hereof with respect to the property so deposited with the Trustee and payable to all or any of them, (vi) conversion of the Debentures under Article 13, [(vii) maintenance of the Trust for United States Federal income tax purposes as a grantor trust under Section 10.8] and (viii) the maintenance of the Company Office and the Trustee, on demand of the Company accompanied by an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent herein provided for relating to the satisfaction and discharge of this Indenture have been complied with, and at the cost and expense of the Company, shall execute proper instruments acknowledging such satisfaction and discharge of this Indenture. The Company agrees to reimburse the Trustee for any costs or expenses thereafter reasonably and properly incurred and to compensate the Trustee for any services thereafter reasonably and properly rendered by the Trustee in connection with this Indenture or the Debentures.

(B) In addition to discharge of this Indenture pursuant to the next preceding paragraph (A) the Company shall be deemed to have paid and discharged the entire indebtedness on all the Debentures on the 123rd day after the date of making the deposit referred to in clause (a), and the provisions of this Indenture with respect to the Debentures shall no longer be in effect (except as to (i) rights of registration of transfer and exchange of Debentures and the Company's right of optional redemption, if any, (ii) substitution of mutilated, defaced, destroyed, lost or stolen Debentures, (iii) the rights of Holders of Debentures to receive payments of principal thereof and interest, if any, thereon upon the original stated due dates therefor or any date of redemption (but not upon acceleration), and remaining rights of such Holders to receive mandatory sinking fund or analogous payments, if any, solely from the trust fund referred to in subparagraph (a) below, (iv) the rights, obligations, duties and immunities of the Trustee hereunder, (v) the rights of Holders as beneficiaries hereof with respect to the property so deposited with the Trustee and payable to all or any of them, [(vi) conversion of the Debentures under Article 13,] [(vii) maintenance of the Trust for United States Federal income tax purposes as a grantor trust under Section 10.8, (viii) the payment of any Additional Sums due under Section 10.7, (ix) the payment of Trust expenses under Section 10.09,] and (x) the maintenance of the Company Office and the Trustee, at the cost and expense of the Company, shall, at the Company's written request, execute proper instruments acknowledging the same, if:

(a) the Company shall have irrevocably deposited or caused to be irrevocably deposited with the Trustee as a trust fund specifically pledged as security for, and dedicated solely to, the benefit of the Holders of the Debentures (i) money in an amount, or (ii) Government Obligations, maturing as to principal and interest at such times and in such amounts as will ensure the availability of money, or

(iii) a combination thereof, sufficient in the opinion of a nationally recognized firm of independent public accountants expressed in a written certification therefor delivered to the Trustee, to pay (A) the principal and interest, if any, on all Debentures on each date that such principal or interest, if any, is due and payable and (B) any mandatory sinking fund or analogous payments on the dates on which such payments are due and payable in accordance with the terms of this Indenture and the Debentures;

(b) no Event of Default or event which, with notice or lapse of time or both, would become an Event of Default with respect to the Debentures shall have occurred and be continuing on the date of such deposit or at any time during the period ending on the 123rd day after the date of such deposit (it being understood that this condition shall not be deemed satisfied until the expiration of such period);

(c) such deposit shall not result in a breach or violation of, or constitute a default under, this Indenture or any other material agreement or instrument to which the Company is a party or by which it is bound;

(d) the Company shall have delivered to the Trustee an Opinion of Counsel to the effect that (i) if such deposits shall include Government Obligations in respect of any government other than the United States of America, such deposit shall not result in the Company, the Trustee or such trust constituting an 'investment company' under the Investment Company Act of 1940, as amended, and (ii) if any such deposit occurs more than one year prior to the stated maturity or redemption date of the Debentures, the Holders will not recognize income, gain or loss for Federal income tax purposes as a result of such deposit, defeasance and discharge and will be subject to Federal income tax on the same amounts, in the same manner and at the same times as would have been the case if such deposit, defeasance and discharge had not occurred; and

(e) the Company shall have delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent herein provided for relating to the defeasance contemplated by this paragraph have been complied with.

(C) The Company shall be released from its obligations under Article Eight and Article Ten [(except with respect to maintenance of the Trust as a grantor trust for Federal Income Tax purposes under Section 10.8)] with respect to the Debentures Outstanding on and after the date the conditions set forth below are satisfied (hereinafter, 'covenant defeasance'). Covenant defeasance means that, with respect to the Outstanding Debentures, the Company may omit to comply with and shall have no liability in respect of any term, condition or limitation set forth in Article Ten, whether directly or indirectly by reason of any reference elsewhere herein to such Article by reason of any reference in such Article to any other provision herein or by reason of any reference to such Article in any other document, and such omission to comply shall not constitute an Event of Default under Section 5.1. The following shall be the conditions to application of this paragraph (C):

(a) the Company shall have irrevocably deposited or caused to be irrevocably deposited with the Trustee as a trust fund specifically pledged as security for, and dedicated solely to, the benefit of the Holders of the Debentures, (i) money in an amount, or (ii) Government Obligations, maturing as to principal and interest at such times and in such amounts as will ensure the availability of money, or (iii) a combination thereof, sufficient in the opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, to pay (A) the principal and interest, if any, on all Debentures on each date that such principal or interest, if any, is due and payable and (B) any mandatory sinking fund or analogous payments on the dates on which such payments are due and payable in accordance with the terms of this Indenture and the Debentures;

(b) no Event of Default or event which, with notice or lapse of time or both, would become an Event of Default shall have occurred and be continuing on the date of such deposit or at any time during the period ending on the 123rd day after the date of such deposit (it being understood that this condition shall not be deemed satisfied until the expiration of such period);

(c) such covenant defeasance shall not result in a breach or violation of, or constitute of a default under, this Indenture or any other material agreement or instrument to which the Company is a party or by which it is bound;

(d) the Company shall have delivered to the Trustee an Opinion of Counsel to the effect that (i) if such deposits shall include Government Obligations in respect of any government other than the United States of America, such deposit shall not result in the Company, the Trustee or such trust constituting an 'investment company' under the Investment Company Act of 1940, as amended, and (ii) the Holders will not recognize income, gain or loss for

Federal income tax purposes as a result of such covenant defeasance and will be subject to federal income tax on the same amounts, in the same manner and at the same times as would have been the case if such covenant defeasance had not occurred; and

(e) the Company shall have delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent herein provided for relating to such covenant defeasance have been complied with.

Section 4.2 Application by Trustee of Funds Deposited for Payment of

Debentures. Subject to Section 4.4, all moneys and Government Obligations

deposited with the Trustee (or other trustee), and all money received by the
Trustee

in respect of Government Obligations deposited with the Trustee, pursuant to Section 4.1 shall be held in trust and applied by it to the payment, either directly or through any paying agent (including the Company acting as its own paying agent), to the Holders of all sums due and to become due thereon for principal and interest, if any; but such money need not be segregated from other funds except to the extent required by law.

Section 4.3 Repayment of Moneys Held by Paying Agent. In connection

with the satisfaction and discharge of this Indenture, all moneys then held by any paying agent under the provisions of this Indenture shall, upon demand of the Company, be repaid to it or paid to the Trustee and thereupon such paying agent shall be released from all further liability with respect to such moneys.

Section 4.4 Return of Moneys Held by Trustee and Paying Agent

Unclaimed for Three Years. Any moneys deposited with or paid to the Trustee or

any paying agent for the payment of principal or interest, and not applied but remaining unclaimed for three years after the date upon which such principal or interest shall have become due and payable, shall, upon the written request of the Company and unless otherwise required by mandatory provisions of applicable escheat or abandoned or unclaimed property law, be repaid to the Company by the Trustee or such paying agent, and any Holder shall, unless otherwise required by mandatory provisions of applicable escheat or abandoned or unclaimed property laws, thereafter look only to the Company for any payment which such Holder may be entitled to collect, and all liability of the Trustee or any paying agent with respect to such moneys shall thereupon cease; provided, however, that the Trustee or such paying agent, before being required to make any such repayment with respect to moneys deposited with it for any payment shall at the expense of the Company, mail by first class mail to Holders of Debentures at their addresses as they shall appear on the Securities Register for the Debentures, notice that such moneys remain and that, after a date specified therein, which shall not be less than 30 days from the date of such mailing any unclaimed balance of such moneys then remaining will be repaid to the Company.

Section 4.5 Indemnity for Government Obligations. The Company shall

pay and indemnify the Trustee against any tax, fee or other charge imposed on or assessed against the Government Obligations deposited pursuant to Section 4.1 or the principal or interest received in respect of such Government Obligations, other than any such tax, fee or other charge which by law is for the account of the Holders for whose benefit such Government Obligations are held.

ARTICLE V

REMEDIES

Section 5.1 Events of Default. "Event of Default", wherever used

herein with respect to the Debentures, means any one of the following events (whatever the reason for such Event of Default and whether it shall be voluntary or involuntary or be effected by operation of law or pursuant to any judgment, decree or order of any court or any order, rule or regulation of any administrative or governmental body):

(a) default in the payment of any interest upon the Debenture, including any Additional Interest in respect thereof, when it becomes due and payable, and continuance of such default for a period of 30 days (subject to the deferral of any due date in the case of an Extension Period); or

(b) default in the payment of the principal of (or premium, if any, on) the Debentures when due whether at Stated Maturity, upon redemption, by declaration or otherwise; or

(c) failure on the part of the Company duly to observe or perform any other of the covenants or agreements on the part of the Company contained in the Debentures or contained in this Indenture (other than a covenant or agreement which has been expressly included in this Indenture solely for the benefit of the Company) and continuance of such failure for a period of 90 days after the date on which written notice of such failure, requiring the same to be remedied and stating that such notice is a "Notice of Default" hereunder, shall have been given by registered or certified mail to the Company by the Trustee, or to the Company and the Trustee by a Holder or Holders of at least 25% in aggregate principal amount of the Debentures at the time Outstanding or the holder [or holders of at least 25% in aggregate liquidation amount of the Preferred Securities];

(d) failure by the Company to issue the Common Stock in accordance with Section 13.1 upon an appropriate election by the Holder or Holders of the Debentures to convert the Debentures into shares of Common Stock;

(e) the entry of a decree or order by a court having jurisdiction in the premises adjudging the Company as bankrupt or insolvent, or approving as properly filed a petition seeking reorganization, arrangement, adjudication or composition of or in respect of the Company under any applicable Federal or State bankruptcy, insolvency, reorganization or other similar law, or appointing a receiver, liquidator, assignee, trustee, sequestrator (or other similar official) of the Company or of substantially all of its property or ordering the winding up or liquidation of its affairs, and the continuance of any such decree or order unstayed and in effect for a period of 60 consecutive days; or

(f) the institution by the Company of proceedings to be adjudicated as bankrupt or insolvent, or the consent by it to the institution of bankruptcy or insolvency proceedings against it, or the filing by it of a petition or answer or consent seeking reorganization or relief under any applicable Federal or State bankruptcy, insolvency, reorganization or other similar law, or the consent by it to the filing of any such petition or to the appointment of a receiver, liquidator, assignee, trustee, sequestrator (or other similar official) of the Company or of substantially all of its property 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 and its willingness to be adjudicated as bankrupt, or the taking of corporate action by the Company in furtherance of any such action.

Section 5.2 Acceleration of Maturity; Rescission and Annulment. If

an Event of Default occurs and is continuing, then and in every such case the Trustee or the Holders of not less than 25% in principal amount of the Outstanding Debentures of any series may declare the principal amount of all the Debentures of such series to be due and payable immediately, by a notice in writing to the Company (and to the Trustee if given by Holders); [provided that, if upon an Event of Default, the Trustee or the Holders of not less than 25% in principal amount of the Outstanding Debentures fail to declare the principal of all the Debentures to be immediately due and payable, the holders of at least 25% in aggregate liquidation amount of the Preferred Securities then outstanding shall have such right by a notice in writing to the Company and the Trustee,] and upon any such declaration such principal amount (or specified amount) of and the accrued interest (including any Additional Interest) on all the Debentures shall become immediately due and payable, provided that the payment of principal and interest (including any Additional Interest) on the Debentures shall remain subordinated to the extent provided in Article 12.

At any time after such a declaration of acceleration with respect to Debentures has been made and before a judgment or decree for payment of the money due has been obtained by the Trustee as hereinafter in this Article provided, the Holders of a majority in principal amount of the Outstanding Debentures, by written notice to the Company and the Trustee may rescind and annul such declaration and its consequences if:

(i) the Company has paid or deposited with the Trustee a sum sufficient to pay

(A) all overdue installments of interest (including any Additional Interest) on the Debentures;

(B) the principal of (and premium, if any, on) the Debentures which have become due otherwise than by such declaration of acceleration and interest thereon at the rate borne by the Debentures;

(C) to the extent that payment of such interest is lawful, interest (including any Additional Interest) upon overdue installments of interest at the rate borne by the Debentures;

(D) all sums paid or advanced by the Trustee hereunder and the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel; and

(ii) all Events of Default with respect to Debentures, other than the non-payment of the principal of the Debentures which has become due solely by such acceleration, have been cured or waived as provided in Section 5.13. [If the Holders of a majority in principal amount of the Outstanding Debentures fail to rescind and annul such declaration and its consequences, the holders of a majority in liquidation amount of the Preferred Securities then outstanding shall have such right.]

Section 5.3 Collection of Indebtedness and Suits for Enforcement by

Trustee.

The Company covenants that if:

(a) default is made in the payment of any installment of interest (including any Additional Interest) on the Debentures when such interest becomes due and payable and such default continues for a period of 30 days, or

(b) default is made in the payment of the principal of (and premium, if any, on) the Debentures whether at the Stated Maturity thereof or upon redemption, by declaration or otherwise, the Company will, upon demand of the Trustee, pay to it, for the benefit of the Holders of the Debentures, the whole amount then due and payable on the Debentures for principal (and premium, if any) and interest (including any Additional Interest), including, to the extent that payment of such interest shall be lawful, interest on any overdue principal (and premium, if any) and on any overdue installments of interest (including any Additional Interest) at the rate borne by the Debentures, and, in addition thereto, all amounts owing the Trustee under Section 6.7.

If the Company fails to pay such amounts forthwith upon such demand, the Trustee, in its own name and as trustee of an express trust, may institute a judicial proceeding for the collection of the sums so due and unpaid, and may prosecute such proceeding to judgement or final decree, and may enforce the same against the Company or any other obligor upon the Debentures and collect the moneys adjudged or decreed to be payable in the manner provided by law out of the property of the Company or any other obligor upon the Debentures, wherever situated.

If an Event of Default occurs and is continuing, the Trustee may in its discretion proceed to protect and enforce its rights and the rights of the Holders of the Debentures by such appropriate judicial proceedings as the Trustee shall deem most effectual to protect and enforce any such rights, whether for the specific enforcement of any covenant or agreement in this Indenture or in aid of the exercise of any power granted herein, or to enforce any other proper remedy.

Section 5.4 Trustee May File Proofs of Claim. In case of the

pendency of any receivership, insolvency, liquidation, bankruptcy, reorganization, arrangement, adjustment, composition or other judicial proceeding relative to the Company or any other obligor upon the Debentures:

(a) the Trustee (irrespective of whether the principal of the Debentures shall then be due and payable as therein expressed or by declaration or

otherwise and irrespective of whether the Trustee shall have made any demand on the Company for the payment of overdue principal (and premium, if any) or interest (including any Additional Interest)) shall be entitled and empowered, by intervention in such proceeding or otherwise,

(i) to file and prove a claim for the whole amount of principal (and premium, if any) and interest (including any Additional Interest) owing and unpaid in respect to the Debentures and to file such other papers or documents as may be necessary or advisable and to take any and all actions as are authorized under the Trust Indenture Act in order to have the claims of the Holders and any predecessor to the Trustee under Section 6.7 allowed in any such judicial proceedings; and

(ii) in particular, the Trustee shall be authorized to collect and receive any moneys or other property payable or deliverable on any such claims and to distribute the same in accordance with Section 5.6; and

(b) any custodian, receiver, assignee, trustee, liquidator, sequestrator (or other similar official) in any such judicial proceeding is hereby authorized by each Holder to make such payments to the Trustee for distribution in accordance with Section 5.6, and in the event that the Trustee shall consent to the making of such payments directly to the Holders, to pay to the Trustee any amount due to it and any predecessor Trustee under Section 6.7;

Nothing herein contained shall be deemed to authorize the Trustee to authorize or consent to or accept or adopt on behalf of any Holder any plan of reorganization, arrangement, adjustment or composition affecting the Debentures or the rights of any Holder thereof, or to authorize the Trustee to vote in respect of the claim of any Holder in any such proceeding; provided, however, that the Trustee may, on behalf of the Holders, vote for the election of a trustee in bankruptcy or similar official and be a member of a creditors' or other similar committee.

Section 5.5 Trustee May Enforce Claim Without Possession of

Debentures. All rights of action and claims under this Indenture or the

Debentures may be prosecuted and enforced by the Trustee without the possession of any of the Debentures or the production thereof in any proceeding relating thereto, and any such proceeding instituted by the Trustee shall be brought in its own name as trustee of an express trust, and any recovery of judgement shall, after provision for the payment of

all the amounts owing the Trustee and any predecessor Trustee under Section 6.7, its agents and counsel, be for the ratable benefit of the Holders of the Debentures in respect of which such judgement has been recovered.

Section 5.6 Application of Money Collected. Any money or property

collected or to be applied by the Trustee with respect to the Debentures pursuant to this Article shall be applied in the following order, at the date or dates fixed by the Trustee and, in case of the distribution of such money or property on account of principal (or premium, if any) or interest (including any Additional Interest), upon presentation of the Debentures and the notation thereon of the payment if only partially paid and upon surrender thereof if fully paid:

FIRST: To the payment of all amounts due the Trustee and any predecessor Trustee under Section 6.7;

SECOND: To the payment of the amounts then due and unpaid upon the Debentures for principal (and premium, if any) and interest (including any Additional Interest), 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 the Debentures for principal (and premium, if any) and interest (including any Additional Interest), respectively;

THIRD: The balance, if any, to the Person or Persons entitled thereto; and

FOURTH: To the Company.

Section 5.7 Limitation on Suits. No Holder of the Debentures[,

including a holder of Preferred Securities acting to enforce the rights of the Property Trustee as a Holder of the Debentures pursuant to Section 6.8 of the Trust Agreement,] shall have any right to institute any proceeding, judicial or otherwise, with respect to this Indenture or for the appointment of a receiver, assignee, trustee, liquidator, sequestrator (or other similar official) or for any other remedy hereunder, unless:

(a) such Holder has previously given written notice to the Trustee of a continuing Event of Default;

(b) [if the Trust is not the sole Holder of the Outstanding Debentures,] the Holders of not less than 25% in principal amount of the Outstanding Debentures shall have made written request to the Trustee to institute proceedings in respect of such Event of Default in its own name as Trustee hereunder;

(c) such Holder or Holders have offered to the Trustee reasonable indemnity against the costs, expenses and liabilities to be incurred in compliance with such request;

(d) the Trustee for 60 days after its receipt of such notice, request and offer of indemnity has failed to institute any such proceeding; and

(e) no direction inconsistent with such written request has been given to the Trustee during such 60-day period by the Holders of a majority in principal amount of the Outstanding Debentures;

it being understood and intended that no one or more of such Holders shall have any right in any manner whatever by virtue of, or by availing of any provision of this Indenture to affect, disturb or prejudice the rights of any other Holders of the Debentures, or to obtain or to seek to obtain priority or preference over any other of such Holders or to enforce any right under this Indenture, except in the manner herein provided and for the equal and ratable benefit of all such Holders.

Section 5.8 Unconditional Right of Holders to Receive Principal,

Premium and Interest. Notwithstanding any other provision in this Indenture,

the Holder of any Debenture shall have the right which is absolute and unconditional to receive payment of the principal of (and premium, if any) and (subject to Section 3.7) interest (including any Additional Interest) on such Debenture on the Maturity [or to convert such Debenture in accordance with Article 13] and to institute suit for the enforcement of any such payment and right to convert, and such right shall not be impaired without the consent of such Holder. [For so long as any Preferred Securities remain Outstanding, to the fullest extent permitted by law and subject to the terms of this Indenture and the Trust Agreement, upon an Event of Default specified in Sections 5.1(a) or 5.1(b), any holder of Preferred Securities shall have the right to institute a proceeding directly against the Company, for enforcement of payment to such holder of the principal amount of or interest on Debentures having a principal amount equal to the liquidation amount of the Preferred Securities of such holder (a "Direct Action"). Notwithstanding any payment made to such holder of Preferred Securities by the Company in connection with a Direct Action, the Company shall

remain obligated to pay the principal of or interest on the Debentures held by the Trust or the Property Trustee. In connection with any such Direct Action, the rights of the Company will be subrogated to the rights of any holder of the Preferred Securities to the extent of any payment made by the Company to such holder of Preferred Securities as a result of such Direct Action. Except as set forth in this Section, the holders of Preferred Securities shall have no right to execute any right or remedy available to the Holders of or in respect of, the Debentures.]

Section 5.9 Restoration of Rights and Remedies. If the Trustee or

any Holder has instituted any proceeding to enforce any right or remedy under this Indenture and such proceeding has been discontinued or abandoned for any reason, or has been determined adversely to the Trustee or to such Holder, then and in every such case the Company, the Trustee and the Holder shall, subject to any determination in such proceeding, be restored severally and respectively to their former positions hereunder, and thereafter all rights and remedies of the Trustee and the Holders shall continue as though no such proceeding had been instituted.

Section 5.10 Rights and Remedies Cumulative. Except as otherwise

provided in the last paragraph of Section 3.6, no right or remedy herein conferred upon or reserved to the Trustee or to the Holders is intended to be exclusive of any other right or remedy, and every right and remedy shall, to the extent permitted by law, be cumulative and in addition to every other right and remedy given hereunder or now or hereafter existing at law or in equity or otherwise. The assertion or employment of any right or remedy hereunder, or otherwise, shall not prevent the concurrent assertion or employment of any other appropriate right or remedy.

Section 5.11 Delay or Omission Not Waiver. No delay or omission of

the Trustee or of any Holder of the Debentures to exercise any right or remedy accruing upon any Event of Default shall impair any such right or remedy, or constitute a waiver of any such Event of Default or an acquiescence therein.

Every right and remedy given by this Article or by law to the Trustee or to the Holders may be exercised from time to time, and as often as may be deemed expedient, by the Trustee or by the Holders, as the case may be.

Section 5.12 Control by Holders. The Holders of a majority in

principal amount of the Outstanding Debentures of any series shall have the right to direct the time, method and place of conducting any proceeding for any remedy available to the

Trustee or exercising any trust or power conferred on the Trustee, with respect to the Debentures of such series, provided that:

(a) such direction shall not be in conflict with any rule of law or with this Indenture,

(b) the Trustee may take any other action deemed proper by the Trustee which is not inconsistent with such direction, and

(c) subject to the provisions of Section 6.1, the Trustee shall have the right to decline to follow such direction if the Trustee in good faith shall, by a Responsible Officer or Officers of the Trustee, determine that the proceeding so directed would be unjustly prejudicial to the Holders not joining in any such direction or would involve the Trustee in personal liability.

Upon receipt by the Trustee of any written notice directing the time, method or place of conducting any such proceeding or exercising any such trust or power, with respect to the Debentures and, if all or part of the Debentures is represented by a Global Security, a record date shall be established for determining Holders of Outstanding Debentures entitled to join in such notice, which record date shall be at the close of business on the day the Trustee receives such notice. The Holders on such record date, or their duly designated proxies, and only such Persons, shall be entitled to join in such notice, whether or not such Holders remain Holders after such record date, provided,

that, unless the Holders of a majority in principal amount of the Outstanding Debentures shall have joined in such notice prior to the day which is 90 days after such record date, such notice shall automatically and without further action by any Holder be canceled and of no further effect. Nothing in this paragraph shall prevent a Holder, or a proxy of a Holder, from giving, after expiration of such 90-day period, a new notice identical to a notice which has been canceled pursuant to the proviso to the preceding sentence, in which event a new record date shall be established pursuant to the provisions of this Section 5.12.

Section 5.13 Waiver of Past Defaults. Subject to Section 9.2 hereof,

the Holders of not less than a majority in principal amount of the Outstanding Debentures of any series may on behalf of the Holders of all the Debentures of such series waive any past default hereunder with respect to Debentures and its consequences, except a default:

(a) in the payment of the principal of (or premium, if any) or interest (including any Additional Interest) on the Debentures (unless such default

has been cured and a sum sufficient to pay all matured installments of interest and principal due otherwise than by acceleration has been deposited with the Trustee), or

(b) in respect of a covenant or provision hereof which under Article 9 cannot be modified or amended without the consent of the Holder of each Outstanding Debenture[; provided, however, that if the Debentures are held

by the Trust or a trustee of the Trust, such waiver shall not be effective until the holders of a majority in liquidation amount of Preferred Securities shall have consented to such waiver; provided, further, that if the consent of the

Holder of each outstanding Debenture is required, such waiver shall not be effective until each holder of the Trust Securities shall have consented to such waiver].

Upon any such waiver, such default shall cease to exist, and any Event of Default arising therefrom shall be deemed to have been cured, for every purpose of this Indenture, but no such waiver shall extend to any subsequent or other default or impair any right consequent thereon. [If the Holders of a majority in aggregate principal amount of the Outstanding Debentures fail to waive such Event of Default, the holders of a majority in aggregate liquidation amount of Preferred Securities shall have such right.] No such rescission shall affect any subsequent default or impair any right consequent thereon.

Section 5.14 Undertaking for Costs. All parties to this Indenture

agree, and each Holder of any Debenture by his acceptance thereof shall be deemed to have agreed, that any court may in its discretion require, in any suit for the enforcement of any right or remedy under this Indenture, or in any suit against the Trustee for any action taken or omitted by it as Trustee the filing by any party litigant in such suit of an undertaking to pay the costs of such suit, and that such court may in its discretion assess reasonable costs, including reasonable attorneys' fees, against any party litigant in such suit, having due regard to the merits and good faith of the claims or defenses made by such party litigant; but the provisions of this Section shall not apply to any suit instituted by the Trustee, to any suit instituted by any Holder, or group of Holders, holding in the aggregate more than 10% in principal amount of the Outstanding Debentures, or to any suit instituted by any Holder for the enforcement of the payment of the principal of (or premium, if any) or interest (including any Additional Interest) on the Debentures on or after the Maturity of the Debentures or to convert a Debenture in accordance with Article 13.

Section 5.15 Waiver of Usury, Stay, or Extension Laws. The Company

covenants (to the extent that it may lawfully do so) that it will not at any time

insist upon, or plead, or in any manner whatsoever claim or take the benefit or advantage of, any usury, stay or extension law wherever enacted, now or at any time hereafter in force, which may affect the covenants or the performance of this Indenture; and the Company (to the extent that it may lawfully do so) hereby expressly waives all benefit or advantage of any such law, and covenants that it will not hinder, delay or impede the execution of any power herein granted to the Trustee, but will suffer and permit the execution of every such power as though no such law had been enacted.

ARTICLE VI

THE TRUSTEE

Section 6.1 Certain Duties and Responsibilities. (a) Except during

the continuance of an Event of Default,

(i) the Trustee undertakes to perform such duties and only such duties as are specifically set forth in this Indenture, and no implied covenants or obligations shall be read into this Indenture against the Trustee; and

(ii) in the absence of bad faith on its part, the Trustee may conclusively rely, as to the truth of the statements and the correctness of the opinions expressed therein, upon certificates or opinions furnished to the Trustee and conforming to the requirements of this Indenture, but in the case of any such certificates or opinions which by any provisions hereof 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.

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

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

(i) this Subsection shall not be construed to limit the effect of Subsection (a) of this Section;

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

(iii) the Trustee shall not be liable with respect to any action taken or omitted to be taken by it in good faith in accordance with the direction of Holders pursuant to Section 5.12 relating to the time, method and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred upon the Trustee, under this Indenture.

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

(e) 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.

Section 6.2 Notice of Defaults. Within 90 days after actual knowledge

by a Responsible Officer of the Trustee of the occurrence of any default hereunder, the Trustee shall transmit by mail to all Holders of Debentures, as their names and addresses appear in the Securities Register, notice of such default hereunder known to the Trustee, unless such default shall have been cured or waived; provided, however, that, except in the case of a default in the payment of the principal of (or premium, if any) or interest (including any Additional Interest) on Debenture, the Trustee shall be protected in withholding such notice if and so long as the board of directors, the executive committee or a trust committee of directors and/or Responsible Officers of the Trustee in good faith determines that the withholding of

such notice is in the interests of the Holders of Debentures; and provided,

further, that, except in the case of any default of the character specified in

Section 5.1(c), no such notice to Holders of the Debentures shall be given until
at least 30 days after the occurrence thereof. For the purpose of this Section,
the term "default" means any event which is, or after notice or lapse of time or
both would become, an Event of Default.

Section 6.3 Certain Rights of Trustee. Subject to the provisions of

Section 6.1:

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

(b) any request or direction of the Company mentioned herein shall be sufficiently evidenced by a Company Request or Company Order and any resolution of the Board of Directors may be sufficiently evidenced by a Board Resolution;

(c) 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 (unless other evidence be herein specifically prescribed) may, in the absence of bad faith on its part, rely upon an Officers' Certificate and an Opinion of Counsel;

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

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

(f) the Trustee is not required to expend or risk its own funds or otherwise incur personal financial liability in the performance of its duties if the Trustee reasonably believes that repayment or adequate indemnity is not reasonably assured to it.

(g) 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, indenture, Debenture or other paper or document, but the Trustee in its discretion may make such inquiry or investigation into such facts or matters as it may see fit, and, if the Trustee shall determine to make such inquiry or investigation, it shall be entitled to examine the books, records and premises of the Company, personally or by agent or attorney;

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

(i) the Trustee shall not be charged with knowledge of any default unless either (i) a Responsible Officer shall have actual knowledge thereof, or (ii) the Trustee shall have received written notice thereof from the Company or any Holder of the Debentures.

Section 6.4 Not Responsible for Recitals or Issuance of Debentures.

The recitals contained herein and in the Debentures, except the Trustee's certificates of authentication, shall be taken as the statements of the Company, and the Trustee assumes no responsibility for their correctness. The Trustee makes no representations as to the validity or sufficiency of this Indenture or of the Debentures. The Trustee shall not be accountable for the use or application by the Company of the Debentures or the proceeds thereof.

Section 6.5 May Hold Debentures. The Trustee, any Paying Agent,

Securities Registrar or any other agent of the Company, in its individual or any other capacity, may become the owner or pledgee of Debentures and, subject to Sections 6.8 and 6.13, may otherwise deal with the Company with the same rights it would have if it were not Trustee, Paying Agent, Securities Registrar or such other agent.

Section 6.6 Money Held in Trust. 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 of interest on any money received by it hereunder except as otherwise agreed in writing with the Company.

Section 6.7 Compensation and Reimbursement. The Company agrees

(a) to pay to the Trustee from time to time such compensation for all services rendered by it hereunder in such amounts as the Company and the Trustee shall agree from time to time (which compensation shall not be limited by any provision of law in regard to the compensation of a trustee of an express trust);

(b) to reimburse the Trustee upon its request for all reasonable expenses, disbursements and advances incurred or made by the Trustee in accordance with any provision of this Indenture (including the reasonable compensation and the expenses and disbursements of its agents and counsel); and

(c) to indemnify the Trustee for, and to hold it harmless against, any loss, liability or expense (including the reasonable compensation and the expenses and disbursements of its agents and counsel) incurred without negligence or bad faith, arising out of or in connection with the acceptance or administration of this trust or the performance of its duties hereunder, including the 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. This indemnification shall survive the resignation or removal of the Trustee and the termination of this Indenture.

To secure the Company's payment obligations in this Section, the Company and the Holders agree that the Trustee shall have a lien prior to the Debentures on all money or property held or collected by the Trustee except assets held in trust to pay principal and premium, if any, or interest on particular Debentures pursuant to the discharge and defeasance provisions pursuant to Article 4, or pursuant to any redemption pursuant to Article 11 hereof if monies have been deposited for such redemption and notice has been given and the Redemption Date has passed. Such lien shall survive the satisfaction and discharge of this Indenture.

When the Trustee incurs expenses or renders services after an Event of Default specified in Section 5.1(e) or (f) occurs, the expenses and the compensation for the services are intended to constitute expenses of administration under any Bankruptcy Reform Act of 1978 or a successor statute.

Section 6.8 Disqualification; Conflicting Interests. The Trustee

shall be subject to the provisions of Section 310(b) of the Trust Indenture Act. Nothing herein shall prevent the Trustee from filing with the Commission the application referred to in the second to last paragraph of Section 310(b) of the Trust Indenture

Act. The Trust Agreement and the Guarantee shall be deemed to be specifically described in this Indenture for the purposes of clause (i) of the first proviso contained in Section 310(b) of the Trust Indenture Act. The Trustee's services as Guarantee Trustee and Trustee under the Trust Agreement shall not be deemed to constitute conflicting interests.

Section 6.9 Corporate Trustee Required; Eligibility. There shall at

all times be a Trustee hereunder which shall be

(a) a corporation organized and doing business under the laws of the United States of America or of any State, Territory or the District of Columbia, authorized under such laws to exercise corporate trust powers and subject to supervision or examination by Federal, State, Territorial or District of Columbia authority, or

(b) a corporation or other Person organized and doing business under the laws of a foreign government that is permitted to act as Trustee pursuant to a rule, regulation or order of the Commission, authorized under such laws to exercise corporate trust powers, and subject to supervision or examination by authority of such foreign government or a political subdivision thereof substantially equivalent to supervision or examination applicable to United States institutional trustees,

in either case having a combined capital and surplus of at least \$50,000,000, 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 the aforesaid supervising or examining authority, then, to the purposes of this Section, 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 the Trustee shall cease to be eligible in accordance with the provisions of this Section, it shall resign immediately in the manner and with the effect hereinafter specified in this Article. Neither the Company nor any Person directly or indirectly controlling, controlled by or under common control with the Company shall serve as Trustee hereunder.

Section 6.10 Resignation and Removal; Appointment of Successor. (a)

No resignation or removal of the Trustee and no appointment of a successor Trustee pursuant to this Article shall become effective until the acceptance of appointment by the successor Trustee under Section 6.11.

(b) The Trustee may resign at any time by giving written notice thereof to the Company. If an instrument of acceptance by a successor Trustee shall not have been delivered to the Trustee within 30 days after the giving of such notice of resignation, the resigning Trustee may petition any court of competent jurisdiction for the appointment of a successor Trustee.

(c) The Trustee may be removed at any time by Act of the Holders of a majority in principal amount of the Outstanding Debentures, delivered to the Trustee and to the Company. If an instrument of acceptance by a successor Trustee shall not have been delivered to the Trustee within 30 days after the giving of such notice of resignation, the resigning Trustee may petition any court of competent jurisdiction for the appointment of a successor Trustee.

(d) If at any time:

(i) the Trustee shall fail to comply with Section 6.8 after written request therefor by the Company or by any Holder who has been a bona fide Holder of a Debenture for at least six months, or

(ii) the Trustee shall cease to be eligible under Section 6.9 and shall fail to resign after written request therefor by the Company or by any such Holder, or

(iii) the Trustee shall become incapable of acting or shall be adjudged as 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, (A) the Company by Board Resolution may remove the Trustee, or (B) subject to Section 5.14, any Holder who has been a bona fide Holder of a Debenture for at least six months may, on behalf of himself and all other similarly situated Holders, petition any court of competent jurisdiction for the removal of the Trustee and the appointment of a successor Trustee.

(e) If the Trustee shall resign, be removed or become incapable of acting, or if a vacancy shall occur in the office of Trustee for any cause with respect to the Debentures, the Company, by a Board Resolution, shall promptly

appoint a successor Trustee. If, within one year after such resignation, removal or incapability, or the occurrence of such vacancy, a successor Trustee with respect to the Debentures shall be appointed by Act of the Holders of a majority in principal amount of the Outstanding Debentures delivered to the Company and the retiring Trustee, the successor Trustee so appointed shall, forthwith upon its acceptance of such appointment, become the successor Trustee and supersede the successor Trustee appointed by the Company. If no successor Trustee shall have been appointed by the Company or the Holders and accepted appointment in the manner hereinafter provided, any Holder who has been a bona fide Holder of a Debenture for at least six months may, subject to Section 5.14, on behalf of himself and all others similarly situated, petition any court of competent jurisdiction for the appointment of a successor Trustee.

(f) The Company shall give notice of each resignation and each removal of the Trustee and each appointment of a successor Trustee by mailing written notice of such event by first-class mail, postage prepaid, to the Holders of the Debentures as their name and addresses appear in the Securities Register. Each notice shall include the name of the successor Trustee and the address of its Corporate Trust Office.

Section 6.11 Acceptance of Appointment by Successor. (a) In case of

the appointment hereunder of a successor Trustee, every such successor Trustee so appointed shall execute, acknowledge and deliver to the Company and to the retiring Trustee an instrument accepting such appointment, and thereupon the resignation or removal of the retiring Trustee shall become effective and such successor Trustee, without any further act, deed or conveyance, shall become vested with all the rights, powers, trusts and duties of the retiring Trustee, but, on the request of the Company or the Successor Trustee, such retiring Trustee shall, upon payment of its charges, execute and deliver an instrument transferring to such successor Trustee all the rights, powers and trusts of the retiring Trustee and shall duly assign, transfer and deliver to such successor Trustee all property and money held by such retiring Trustee hereunder.

(b) Upon request of any such successor Trustee, the Company shall execute any and all instruments for more fully and certainly vesting in and confirming to such successor Trustee all rights, power and trusts referred to in paragraph (a) of this Section.

(c) No successor Trustee shall accept its appointment unless at the time of such acceptance such successor Trustee shall be qualified and eligible under this Article.

Section 6.12 Merger, Conversion, Consolidation or Succession to

Business. Any corporation into which the Trustee may be merged or converted or

with which it may be consolidated, or any corporation resulting from any merger, conversion or consolidation to which the Trustee shall be a party, or any corporation succeeding to all or substantially all of the corporate trust business of the Trustee, shall be the successor of the Trustee and any agency appointments of the Trustee hereunder, provided such corporation shall be otherwise qualified and eligible under this Article, without the execution or filing of any paper or any further act on the part of any of the parties hereto. In case any Debentures shall have been authenticated, but not delivered, by the Trustee then in office, any successor by merger, conversion or consolidation to such authenticating Trustee may adopt such authentication and deliver the Debentures so authenticated, and in case any Debentures shall not have been authenticated, any successor to the Trustee may authenticate such Debentures either in the name of any predecessor Trustee or in the name of such successor Trustee, and in all cases the certificate of authentication shall have the full force which it is provided anywhere in the Debentures or in this Indenture that the certificate of the Trustee shall have.

Section 6.13 Preferential Collection of Claims Against Company. If

and when the Trustee shall be or become a creditor of the Company (or any other obligor upon the Debentures), the Trustee shall be subject to the provisions of the Trust Indenture Act regarding the collection of claims against the Company (or any such other obligor).

Section 6.14 Appointment of Authenticating Agent. The Trustee may

appoint an Authenticating Agent or Agents with respect to the Debentures which shall be authorized to act on behalf of the Trustee to authenticate the Debentures issued upon exchange, registration of transfer or partial redemption thereof, and Debentures 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. Wherever reference is made in this Indenture to the authentication and delivery of Debentures by the Trustee or the Trustee's certificate of authentication, such reference shall be deemed to include authentication and delivery on behalf of the Trustee by an Authenticating Agent. Each Authenticating Agent shall be acceptable to the Company and shall at all times be a corporation organized and

doing business under the laws of the United States of America, or of any State, Territory 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 Authenticating Agent 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 Section the combined capital and surplus of such Authenticating Agent shall be deemed to be its combined capital and surplus as set forth in its most recent report of condition so published. If at any time an Authenticating Agent shall cease to be eligible in accordance with the provisions of this Section, such Authenticating Agent shall resign immediately in the manner and with the effect specified in this Section.

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 all or substantially all of the corporate trust business of an Authenticating Agent shall be the successor Authenticating Agent hereunder, provided such corporation shall be otherwise eligible under this Section, 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, the Trustee may appoint a successor Authenticating Agent which shall be acceptable to the Company and shall give notice of such appointment in the manner provided in Section 1.6 to all Holders of the Debentures. 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 provision of this Section.

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

If an appointment is made pursuant to this Section, the Debentures may have endorsed thereon, in addition to the Trustee's certificate of authentication, an alternative certificate of authentication in the following form:

This is one of the Debentures referred to in the within mentioned indenture.

CHASE MANHATTAN TRUST COMPANY, National
Association
As Trustee

By: _____
As Authenticating Agent

By: _____
Authorized Officer

ARTICLE VII

HOLDERS LISTS AND REPORTS BY TRUSTEE AND COMPANY

Section 7.1 Company to Furnish Names and Addresses of Holders. The

Company will furnish or cause to be furnished to the Trustee (unless the Trustee is acting as the Securities Registrar).

(a) quarterly at least 5 Business Days before each Interest Payment Date, a list, in such form as the Trustee may reasonably require, of the names and addresses of the Holders as of each such date.

(b) at such other times as the Trustee may request in writing, within 30 days after the 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.

Section 7.2 Preservation of Information; Communications to Holders.

(a) The Trustee shall preserve, in as current a form as is reasonably practicable, the names and addresses of Holders contained in the most recent list furnished to the Trustee as provided in Section 7.1 and the names and addresses of Holders received by the Trustee in its capacity as Securities Registrar. The Trustee may destroy any list furnished to it as provided in Section 7.1 upon receipt of a new list so furnished.

(b) The rights of Holders to communicate with other Holders with respect to their rights under this Indenture or under the Debentures, and the corresponding rights and privileges of the Trustee, shall be as provided in the Trust Indenture Act.

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

Section 7.3 Reports by Trustee. (a) The Trustee shall transmit to

Holders such reports concerning the Trustee and its actions under this Indenture as

may be required pursuant to the Trust Indenture Act, at the times and in the manner provided pursuant thereto.

(b) Reports so required to be transmitted at stated intervals of not more than 12 months shall be transmitted within 60 days after May 15 of each year, commencing with the first May 15 after the first issuance of Debentures under this Indenture.

(c) A copy of each such report shall, at the time of such transmission to Holders, be filed by the Trustee with each stock exchange or self regulatory organization of which the Trustee has received notice by the Company upon which the Debentures are listed and also with the Commission. The Company will notify the Trustee whenever the Debentures are listed on any stock exchange or with any self-regulatory organization.

Section 7.4 Reports by Company. The Company shall file with the

Trustee and with the Commission, 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 any such information, documents or

reports required to be filed with the Commission pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934 shall be filed with the Trustee within 15 days after the same is required to be filed with the Commission. [Notwithstanding that the Company may not be required to remain subject to the reporting requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the Company shall continue to file with the Commission and provide the Trustee and Holders with the annual reports and the information, documents and other reports which are specified in Sections 13 and 15(d) of the Securities Exchange Act of 1934.] The Company also shall comply with the other provisions of Trust Indenture Act Section 314(a).

ARTICLE VII

CONSOLIDATION, MERGER, CONVEYANCE, TRANSFER OR LEASE

Section 8.1 Company May Consolidate, Etc., Only on Certain Terms.

The Company shall not consolidate with or merge into any other Person or convey, transfer or lease its properties and assets substantially as an entirety to any Person, and no Person shall consolidate with or merge into the Company or convey,

transfer or lease its properties and assets substantially as an entirety to the Company, unless:

(a) in case the Company shall consolidate with or merge into another Person or convey, transfer or lease its properties and assets substantially as an entirety to any Person, the Person formed by such consolidation or into which the Company is merged or the Person which acquires by conveyance or transfer, or which leases, the properties and assets of the Company substantially as an entirety shall be a corporation organized and existing under the laws of the United States of America or any State or the District of Columbia, and shall expressly assume, by an indenture supplemental hereto, executed and delivered to the Trustee, in form satisfactory to the Trustee, the due and punctual payment of the principal of (and premium, if any) and interest (including any Additional Interest) on all the Debentures and the performance of every covenant of this Indenture on the part of the Company to be performed or observed and shall have provided for conversion rights in accordance with Article 13;

(b) immediately after giving effect to such transaction, no Event of Default, and no event which, after notice or lapse of time, or both, would become an Event of Default, shall have occurred and be continuing;

[(c) such consolidation, merger, conveyance, transfer or lease is permitted under the Trust Agreement and Guarantee and does not give rise to any breach or violation of the Trust Agreement or Guarantee;] and

(d) the Company has delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that such consolidation, merger, conveyance, transfer or lease and any such supplemental indenture complies with this Article and that all conditions precedent herein provided for relating to such transaction have been complied with, and the Trustee, subject to Section 6.1, may rely upon such Officers' Certificate and Opinion of Counsel as conclusive evidence that such transaction complies with this Section 8.1.

Section 8.2 Successor Corporation Substituted. Upon any consolida-

tion or merger by the Company with or into any other Person, or any conveyance, transfer or lease by the Company of its properties and assets substantially as an entirety to any Person in accordance with Section 8.1, the successor corporation formed by such consolidation or into which the Company is merged 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 corporation had been named as the Company herein; and in the event of any such conveyance, transfer or lease the Company shall be discharged from all obligations and covenants under the Indenture and the Debentures and may be dissolved and liquidated.

Such successor corporation may cause to be signed, and may issue either in its own name or in the name of the Company, any or all of the Debentures issuable hereunder which theretofore shall not have been signed by the Company and delivered to the Trustee, and, upon the Company Order of such successor corporation instead of the Company and subject to all the terms, conditions and limitations in this Indenture prescribed, the Trustee shall authenticate and shall deliver any Debentures which previously shall have been signed and delivered by the officers of the Company to the Trustee for authentication pursuant to such provisions and any Debentures which such successor corporation thereafter shall cause to be signed and delivered to the Trustee on its behalf for the purpose pursuant to such provisions. All the Debentures so issued shall in all respects have the same legal rank and benefit under this Indenture as the Debentures theretofore or thereafter issued in accordance with the terms of this Indenture as though all of such Debentures had been issued at the date of the execution hereof.

In case of any such consolidation, merger, sale, conveyance or lease, such changes in phraseology and form may be made in the Debentures thereafter to be issued as may be appropriate.

ARTICLE IX

SUPPLEMENTAL INDENTURES

Section 9.1 Supplemental Indentures Without Consent of Holders.

Without the consent of or notice to any Holder, the Company, when authorized by a Board Resolution, 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 of the following purposes:

(a) to evidence the succession of another Person to the Company, and the assumption by any such successor of the covenants of the Company herein and in the Debentures contained; or

(b) to convey, transfer, assign, mortgage or pledge any property to or with the Trustee or to surrender any right or power herein conferred upon the Company; or

(c) to add to covenants of the Company for the benefit of the Holders of the Debentures or to surrender any right or power herein conferred upon the Company; or

(d) to make provision with respect to the conversion rights of Holders pursuant to the requirements of Article 13; or

(e) to add any additional Events of Default; or

(f) to cure any ambiguity, to correct or supplement any provision herein which may be inconsistent with any other provision herein, or to make any other provisions with respect to matters or questions arising under this Indenture, provided that such action pursuant to this clause shall not materially adversely affect the interest of the Holders of Debentures [and for so long as any of the Preferred Securities shall remain outstanding, the holders of such Preferred Securities]; or

(g) to evidence and provide for the acceptance of appointment hereunder by successor Trustee and to add to or change any of the provisions of this Indenture as shall be necessary to provide for or facilitate the administration of the Trust hereunder by more than one Trustee, pursuant to the requirements of Section 6.11(b); or

(h) to comply with the requirements of the Commission in order to effect or maintain the qualification of this Indenture under the Trust Indenture Act; or

(i) to make provision for transfer procedures, certification, book-entry provisions, the form of restricted securities legends, if any, to be placed on Debentures, and all other matters required pursuant to Section 3.5 [or otherwise necessary, desirable or appropriate in connection with the issuance of Debentures to holders of Preferred Securities in the event of a distribution of Debentures by the Trust if a Special Event occurs and is continuing.]

Section 9.2 Supplemental Indentures with Consent of Holders. With

the consent of the Holders of not less than a majority in principal amount of the Outstanding Debentures, by Act of said Holders delivered to the Company and the Trustee, the Company, when authorized by a Board Resolution, and the Trustee may enter into an indenture or indentures supplemental hereto for the purpose of adding any provisions to or changing in any manner or eliminating any of the provisions of this Indenture or of modifying in any manner the rights of the Holders of the Debentures under this Indenture; provided, however, that no such supplemental indenture shall, without the consent of the Holder of each Outstanding Debenture affected thereby,

(a) except to the extent permitted by Section 3.11 with respect to the extension of the interest payment period of the Debentures, change the Stated Maturity of the principal of, or any installment of interest (including any Additional Interest) on, the Debentures, or reduce the principal amount thereof or the rate of interest thereon or reduce any premium payable upon the redemption thereof, or change the place of payment where, or the coin or currency in which, any Debenture or interest thereon is payable, or impair the right to institute suit for the enforcement of any such payment on or after the Maturity thereof (or, in the case of redemption, on or after the date fixed for redemption thereof), or

(b) adversely affect any right to convert or exchange any Debenture or modify the provisions of this Indenture with respect to the subordination of the Debentures in a manner adverse to such Holder; or

(c) reduce the percentage in principal amount of the Outstanding Debentures, the consent of whose Holders is required for any such 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

(d) modify any of the provisions of this Section, Section 4.1, Section 5.8, Section 5.13, 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 Debenture affected thereby[, or the consent of the holders of all the Preferred Securities as the case may be]; [or

provided that, so long as any Preferred Securities remain outstanding no

termination of this Indenture shall occur, and no waiver of any Event of Default or compliance with any covenant under this Indenture shall be effective, without the prior consent of the holders of at least a majority of the aggregate liquidation amount of such Preferred Securities then outstanding unless and until the principal (and premium, if any) of the Debentures and all accrued and unpaid interest (including any Additional Interest) thereon have been paid in full.]

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

Section 9.3 Execution of Supplemental Indentures. In executing or

accepting the additional trusts created by any supplemental indenture permitted by this Article or the modifications thereby of the trust created by this Indenture, the Trustee shall be entitled to receive, and (subject to Section 6.1) shall be fully protected in relying upon, an Officers' Certificate and an Opinion of Counsel stating that the execution of such supplemental indenture is authorized or permitted by this Indenture, and that all conditions precedent have been complied with. The Trustee may, but shall not be obligated to, enter into any such supplemental indenture which affects the Trustee's own rights, duties or immunities under this Indenture or otherwise.

Section 9.4 Effect of Supplemental Indentures. Upon the execution of

any supplemental indenture under this Article, this Indenture shall be modified in accordance therewith, and such supplemental indenture shall form a part of this Indenture for all purposes, and every Holder of the Debentures theretofore or thereafter authenticated and delivered hereunder shall be bound thereby.

Section 9.5 Conformity with Trust Indenture Act. Every supplemental

indenture executed pursuant to this Article shall conform to the requirements of the Trust Indenture Act as then in effect.

Section 9.6 Reference in Debentures to Supplemental Indentures.

Debentures authenticated and delivered after the execution of any supplemental indenture pursuant to this Article may, and shall if required by the Trustee, bear a notation in form approved by the Trustee as to any matter provided for in such supplemental indenture. If the Company shall so determine, new Debentures so modified as to conform, in the opinion of the Trustee and the Board of Directors, to

any such supplemental indenture may be prepared and executed by the Company and authenticated and delivered by the Trustee in exchange for Outstanding Debentures presented to the Trustee.

ARTICLE X

COVENANTS

Section 10.1 Payment of Principal, Premium and Interest. The

Company covenants and agrees for the benefit of the Holders of the Debentures that it will duly and punctually pay the principal of (and premium, if any) and interest (including Additional Interest) on the Debentures in accordance with the terms of the Debentures and this Indenture.

Section 10.2 Maintenance of Office or Agency. The Company will

maintain in the United States an office or agency where Debentures may be presented or surrendered for payment and an office or agency where Debentures may be surrendered for registration of transfer or exchange and where notices and demands to or upon the Company in respect of the Debentures and this Indenture may be served. The Company initially appoints the Trustee, acting through its Corporate Trust Office, as its agent for said purposes. The Company will give prompt written notice to the Trustee of any change in the location of any such office or agency. If at any time the Company shall fail to maintain such 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 its agent to receive all such presentations, surrenders, notices and demands.

The Company may also from time to time designate one or more other offices or agencies where the Debentures may be presented or surrendered for any or all of such purposes, and may from time to time rescind such designations; provided, however, that no such designation or rescission shall in any manner relieve the Company of its obligation to maintain an office or agency in the United States for such purposes. The Company will give prompt written notice to the Trustee of any such designation and any change in the location of any such office or agency.

Section 10.3 Money for Debenture Payments to Be Held in Trust. If the

Company shall at any time act as its own Paying Agent with respect to the Debentures, it will, on or before each due date of the principal of (and premium, if any) or interest on any of the Debentures, segregate and hold in trust for the benefit of the Persons entitled thereto a sum sufficient to pay the principal (and premium, if any) or interest so becoming due until such sums shall be paid to such Persons or otherwise disposed of as herein provided, and will promptly notify the Trustee of its failure so to act.

Whenever the Company shall have one or more Paying Agents, it will, on or before each due date of the principal of or interest on the Debentures, deposit with a Paying Agent a sum sufficient to pay the principal (and premium, if any) or interest so becoming due, such sum to be held in trust for the benefit of the Persons entitled to such principal and premium (if any) or interest, and (unless such Paying Agent is the Trustee) the Company will promptly notify the Trustee of its failure so to act.

The Company will cause each Paying Agent other than the Trustee to execute and deliver to the Trustee an instrument in which such Paying Agent shall agree with the Trustee, subject to the provisions of this Section, that such Paying Agent will:

(a) hold all sums held by it for the payment of the principal of (and premium, if any) or interest on Debentures in trust for the benefit of the Persons entitled thereto until such sums shall be paid to such Persons or otherwise disposed of as herein provided;

(b) give the Trustee notice of any default by the Company (or any other obligor upon the Debentures) in the making of any payment of principal (and premium, if any) or interest;

(c) at any time during the continuance of any such default, upon the written request of the Trustee, forthwith pay to the Trustee all sums so held in trust by such Paying Agent; and

(d) comply with the provisions of the Trust Indenture Act applicable to it as a Paying Agent.

The Company may at any time, for the purpose of obtaining the satisfaction and discharge of this Indenture or for any other purpose, pay, or by Company Order direct any Paying Agent to pay, to the Trustee all sums held in trust by the Company or such Paying Agent, 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, and, upon such payment by the Company or any Paying Agent to the Trustee, such Paying Agent shall be released from all further liability with respect to such money.

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 Debenture and remaining unclaimed for two years after such principal (and premium, if any) or interest has become due and payable shall (unless otherwise required by mandatory provision of applicable escheat or abandoned or unclaimed property law) be paid on Company Request, after all payments owing the Trustee have been paid, to the Company, or (if then held by the Company) shall (unless otherwise required by mandatory provision of applicable escheat or abandoned or unclaimed property law) be discharged from such trust; and the Holder of such Debenture shall thereafter, as an unsecured general creditor, look only to the Company for payment thereof, 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.

Section 10.4 Payment of Taxes and Other Claims. The Company will pay

or discharge or cause to be paid or discharged, before the same shall become delinquent, (a) all taxes, assessments and governmental charges levied or imposed upon the Company or upon the income, profits or property of the Company, and (b) all lawful claims for labor, materials and supplies which, if unpaid, might by law become a lien upon the property of the Company; provided, however,

that the Company shall not be required to pay or discharge or cause to be paid or discharged any such tax, assessment, charge or claim whose amount, applicability or validity is being contested in good faith by appropriate proceedings.

Section 10.5 Statement as to Compliance. The Company shall deliver to

the Trustee, within 120 days after the end of each calendar year of the Company ending after the date hereof an Officers' Certificate (signed by at least one of the officers referred to in Section 314(a)(4) of the Trust Indenture Act) covering the preceding calendar year, stating whether or not to the best knowledge of the signers thereof the Company is in default in the performance, observance or fulfillment of or compliance with any of the terms, provisions, covenants and conditions of this Indenture, and if the Company shall be in default, specifying all such defaults and the nature and status thereof of which they may have knowledge. For the purpose of this Section 10.5, compliance shall be determined without regard to any grace period or requirement of notice provided pursuant to the terms of this Indenture.

Section 10.6 Waiver of Certain Covenants. The Company may omit in any

particular instance to comply with any covenant or condition set forth in this Article 10, if before or after the time for such compliance the Holders of at least a majority in principal amount of the Outstanding Debentures, by Act of such Holders, either waive such compliance in such instance or generally waive 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, and, until such waiver shall become effective, the obligations of the Company in respect of any such covenant or condition shall remain in full force and effect.

[Section 10.7 Additional Sums. In the event that (a) the Property

Trustee is the Holder of all of the Outstanding Debentures, (b) a Tax Event in respect of the Trust shall have occurred and be continuing and (c) the Company shall not have (i) redeemed the Debentures pursuant to Section 11.7 or 11.8 or (ii) terminated the Trust pursuant to Section 9.2(b) of the Trust Agreement, the Company shall pay to the Trust (and its permitted successors or assigns under the Trust Agreement) for so long as the Trust (or its permitted successor or assignee) is the registered holder of the Debentures, such additional amounts as may be necessary in order that the amount of distributions (including any Additional Amounts (as defined in the Trust Agreement)) then due and payable by the Trust on the Preferred Securities and Common Securities that at any time remain outstanding in accord with the terms thereof shall not be reduced as a result of any Additional Taxes (the "Additional Sums"). Whenever in this Indenture or the Debentures there is a reference in any context to the payment of principal of or interest on the Debentures, such mention shall be deemed to include mention of the payments of the Additional Sums provided for in this paragraph to the extent that, in such context, Additional Sums are, were or would be payable in respect thereof pursuant to the provisions of this paragraph and express mention of the payment of Additional Sums (if applicable) in any provisions hereof shall not be construed as excluding Additional Sums in those provisions hereof where such express mention is not made; provided, however, that the extension of an interest payment period pursuant to Section 3.11 or the Debentures shall not extend the payment of any Additional Sums that may be due and payable during such interest payment period.]

Section 10.8 Additional Covenants. The Company covenants and agrees

with each Holder of Debentures that so long as the Debentures are outstanding, if (i) there shall have occurred any event of which the Company has actual knowledge that (A) with the giving of notice or the lapse of time or both, would constitute an Event of Default hereunder and (B) in respect of which the Company shall not have taken reasonable steps to cure, (ii) the Company shall be in default with respect to its payment of any obligations under the Guarantee or (iii) the Company shall have given notice of its selection of an Extension Period as provided herein and shall not have rescinded such notice, or such period, or any extension thereof, shall be continuing, then the Company shall not, (a) declare or pay any dividend on, make distributions with respect to, or redeem, purchase or make a liquidation payment with respect to, any of its Common Stock (other than (i) purchases or acquisitions of shares of Common Stock in connection with the satisfaction by the Company of its obligations under any employee benefit plan, (ii) as a result of a reclassification of the Company's Common Stock or the exchange or conversion of one class or series of the Company's Common Stock for another class or series of the Company's Common Stock, (iii) the purchase of fractional interests in shares of the Company's Common Stock pursuant to the conversion or exchange provisions of such Common Stock of the Company or the security being converted or exchanged or (iv) purchases or acquisitions of shares of Common Stock to be used in connection with acquisitions of Common Stock by shareholders pursuant to the Company's dividend reinvestment plan) or make any guarantee payments with respect to the foregoing and (b) the Company shall not make any payment of principal or premium, if any, on or repurchase any debt securities (including guarantees) other than at stated maturity issued by the Company which rank pari passu with or junior to the Debentures.

[The Company also covenants with each Holder of the Debentures (i) that for so long as Preferred Securities are outstanding not to convert the Debentures except pursuant to a notice of conversion delivered to the Conversion Agent by a holder of Preferred Securities and (ii) to maintain directly or indirectly 100% ownership of the Common Securities of the Trust; provided, however, that any permitted successor of the Company hereunder may succeed to the Company's ownership of such Common Securities, (iii) not to voluntarily terminate, wind-up or liquidate the Trust, except (a) in connection with a distribution of the Debentures to the holders of Preferred Securities in liquidation of the Trust or (b) in connection with certain mergers, consolidations or amalgamations permitted by the Trust Agreement and (iv) to use its reasonable efforts, consistent with the terms and provisions of the Trust Agreement to cause the Trust to remain a grantor trust and not to be classified as an association taxable as a corporation for United States Federal income tax purposes.]

[Section 10.9 Payment of Expenses of the Trust. In connection with the

offering, sale and issuance of the Debentures to the Property Trustee and in connection with the sale of the Preferred Securities by the Trust, the Company shall:

(a) pay for all costs, fees and expenses relating to the offering, sale and issuance of the Preferred Securities (including commissions, discounts and expenses in connection therewith) and compensation of the Trustee under the Indenture in accordance with the provisions of Section 6.7 of the Indenture;

(b) be responsible for and pay for all debts and obligations (other than with respect to the Preferred Securities) of the Trust, pay for all costs and expenses of the Trust (including, but not limited to, costs and expenses relating to the organization of the Trust, the offering, sale and issuance of the Preferred Securities (including commissions, discounts and expenses in connection therewith), the fees and expenses of the Property Trustee and the Delaware Trustee, the costs and expenses relating to the operation of the Trust, including without limitation, costs and expenses of accountants, attorneys, statistical or bookkeeping services, expenses for printing and engraving and computing or accounting equipment, paying agent(s), registrar(s), transfer agent(s), duplicating, travel and telephone and other telecommunications expenses and costs and expenses incurred in connection with the acquisition, financing, and disposition of Trust assets); and

(c) pay any and all taxes (other than United States withholding taxes attributable to the Trust or its assets) and all liabilities, costs and expenses with respect to such taxes of the Trust.]

ARTICLE XI

REDEMPTION OR EXCHANGE OF DEBENTURES

Section 11.1 Election to Redeem; Notice to Trustee. The election of

the Company to redeem any Debentures shall be evidenced by or pursuant to a Board Resolution. In case of any redemption at the election of the Company, the Company shall, not less than 45 days prior to the date fixed for redemption (unless a shorter notice shall be satisfactory to the Trustee, at their convenience), notify the Trustee in writing of such date and of the principal amount of Debentures to be redeemed.

Section 11.2 Selection of Debentures to Be Redeemed. If less than all

the Debentures are to be redeemed, the particular Debentures to be redeemed shall be selected not more than 45 days prior to the Redemption Date by the Trustee from the Outstanding Debentures not previously called for redemption, by lot or by such other method as the Trustee shall deem fair and appropriate and which may provide for the selection for redemption of a portion of the principal amount of the Debentures Outstanding, provided that the unredeemed portion of

the principal amount of the Debentures be in an authorized denomination (which shall not be less than the minimum authorized denomination) for the Debentures.

The Trustee shall promptly notify the Company in writing of the Debentures selected for partial redemption and the principal amount thereof to be redeemed. For all purposes of this Indenture, unless the context otherwise requires, all provisions relating to the redemption of Debentures shall relate, in the case of any Debenture redeemed or to be redeemed only in part, to the portion of the principal amount of such Debenture which has been or is to be redeemed. If the Company shall so direct, Debentures registered in the name of the Company, any Affiliate or

any Subsidiary thereof shall not be included in the Debentures selected for redemption.

Section 11.3 Notice of Redemption. Notice of redemption shall be

given by first-class mail, postage prepaid, mailed not later than the thirtieth day, and not earlier than the sixtieth day, prior to the date fixed for redemption, to each Holder of Debentures to be redeemed, at the address of such Holder as it appears in the Securities Register.

With respect to Debentures to be redeemed, each notice of redemption shall state:

(a) the Redemption Date;

(b) the redemption price at which the Debentures are to be redeemed (the "Redemption Price");

(c) if less than all Outstanding Debentures are to be redeemed, the identification (and, in the case of partial redemption, the respective principal amounts) of the particular Debentures to be redeemed (including, if relevant, the CUSIP or ISIN number);

(d) that on the Redemption Date the Redemption Price will become due and payable upon each such Debenture or portion thereof, and that upon deposit with the Paying Agent interest thereon, if any, shall cease to accrue on and after the Redemption Date;

(e) the place or places where the Debentures are to be surrendered for payment of the redemption price at which the Debentures are to be redeemed; and

(f) that a Holder of Debentures who desires to convert Debentures called for redemption must satisfy the requirements for conversion contained in the Debentures, the then existing conversion price or rate, and the date and time when the option to convert shall expire.

Notice of redemption of Debentures to be redeemed at the election of the Company 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 and shall be irrevocable. The notice if mailed in the manner herein provided shall be conclusively presumed to

have been duly given, whether or not the Holder receives such notice. In any case, a failure to give such notice by mail or any defect in the notice to the Holder of any Debenture designated for redemption as a whole or in part shall not affect the validity of the proceedings for the redemption of any other Debenture.

Section 11.4 Deposit of Redemption Price. Prior to 10:00 a.m., New

York City time, on the Redemption Date specified in the notice of redemption given as provided in Section 11.3, the Company will deposit with the Trustee or with one or more Paying Agents (or, if the Company is acting as its own Paying Agent, segregate and hold in trust as provided in Article 4) an amount of money sufficient to redeem on the Redemption Date all the Debentures so called for redemption at the applicable Redemption Price.

If any Debenture called for redemption has been converted, any money deposited with the Trustee or with any Paying Agent or so segregated and held in trust for the redemption of such Debenture shall (subject to any right of the Holder of such Debenture or any Predecessor Debenture to receive interest as provided in the last paragraph of Section 3.7) be paid to the Company upon Company Request or, if then held by the Company, shall be discharged from such trust.

Section 11.5 Debentures Payable on Redemption Date. If notice of

redemption has been given as provided in Section 11.3, the Debentures so to be redeemed shall, on the Redemption Date, become due and payable at the Redemption Price therein specified, including any accrued interest (and any Additional Interest) thereon, and from and after such date (unless the Company shall default in the payment of the Redemption Price or any accrued interest on (including any Additional Interest)) such Debentures shall cease to bear interest. Upon surrender of any such Debenture for redemption in accordance with said notice, such Debenture shall be paid by the Company at the Redemption Price, including any accrued interest (and any Additional Interest) to the Redemption Date, provided, however, that installments of interest on Debentures

whose Stated Maturity is on or prior to the Redemption Date shall be payable to the Holders of such Debentures, or one of more Predecessor Debentures, registered as such at the close of business on the relevant Regular Record Dates or Special Record Dates, as the case may be, according to their terms and the provisions of Section 3.7.

If any Debenture called for redemption shall not be so paid upon surrender thereof for redemption, the principal and any premium shall, until paid,

bear interest from the Redemption Date at the rate prescribed therefor in the Debenture.

Section 11.6 Debentures Redeemed in Part. In the event of any

redemption in part, the Company shall not be required to (i) issue, register the transfer of or exchange any Debenture during a period beginning at 9:00 a.m. (New York City time) 15 Business Days before any selection for redemption of Debentures and ending at 5:00 p.m. (New York City time) on the earliest date in which the relevant notice of redemption is deemed to have been given to all Holders of Debentures to be so redeemed and (ii) register the transfer of or exchange any Debentures so selected for redemption, in whole or in part, except for the unredeemed portion of any Debentures being redeemed in part.

Any Debenture which is to be redeemed only in part shall be surrendered at the place of payment therefor (with, if the Company or the Trustee so requires, due endorsement by, or a written instrument of transfer in form satisfactory to the Company and the Trustee duly executed by, the Holder thereof or his attorney duly authorized in writing), and the Company shall execute, and the Trustee shall authenticate and make available for delivery to the Holder of such Debenture without service charge, a new Debenture or Debentures, 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 Debenture so surrendered. Each Debenture shall be subject to partial redemption only in the amount of [\$1,000] or integral multiples thereof.

The Debentures are not entitled to the benefit of any sinking or like fund.

Section 11.7 Mandatory Redemption. Subject to Sections 5.2 and 5.13,

upon (i) repayment at maturity or (ii) as a result of acceleration upon the occurrence of an Event of Default, the Company shall redeem all the Outstanding Debentures at a redemption price equal to 100% of the principal amount of such Debentures plus any accrued and unpaid interest, including any Additional Interest, to the date fixed for redemption.

Section 11.8 Optional Redemption. Except as set forth below, on and

after _____, 20__ and subject to the next succeeding sentence, the Company shall have the right, at any time and from time to time, to redeem the Debentures, in whole or in part, upon notice given as set forth in Section 11.3 during the twelve-month periods beginning on _____ in each of the following years at the indicated

Redemption Price (expressed as a percentage of the principal amount of the Debentures being redeemed), together with any accrued but unpaid interest on the portion being redeemed:

Year - - - - -	Redemption Price (% of principal amount)	Year - - - - -	Redemption Price (% of principal amount)
	-----		-----
20__	_____%	20__	_____%
20__	_____%	20__ and thereafter	100.0%
20__	_____%		
20__	_____%		
20__	_____%		

The Company may not redeem the Debentures in whole or in part unless all accrued and unpaid interest has been paid in full on all outstanding Debentures for all quarterly interest periods terminating on or prior to the Redemption Date.

Upon the occurrence of a Tax Event, the Company shall have the right, upon not less than 30 nor more than 60 days' notice, to redeem the Debentures in whole or in part, for cash upon the later of (i) 90 days following the occurrence of such Tax Event or (ii) _____, 20__, at a Redemption Price equal to the principal amount of such Debentures plus any accrued and unpaid interest, including Additional Interest, to the date fixed for such redemption.

[Section 11.9 Exchange of Trust Securities for Debentures. (a) At any

time, the Company shall have the right to terminate the Trust and cause the Debentures to be distributed to the holders of the Preferred Securities in liquidation of the Trust after satisfaction of liabilities to creditors of the Trust as provided by applicable law.

(b) If a Special Event in respect of the Trust shall occur, the Company shall give the Property Trustee notice of the same. If a Special Event in respect of the Trust shall occur and be continuing, the Trust Agreement requires the Property Trustee to direct the Conversion Agent (as defined in the Trust Agreement) to exchange all outstanding Trust Securities for the Debentures having a principal amount equal to the aggregate liquidation amount of the Trust Securities to be exchanged with accrued interest in an amount equal to any unpaid distributions (including any Additional Amounts) on the Trust Securities provided that, in the case of a Tax Event, the Company shall have the right to

direct the Property Trustee

that less than all, or none of the Trust Securities be so exchanged (i) if and for so long as the Company shall have elected to pay any Additional Sums such that the net amounts received by holders of the Trust Securities not so exchanged in respect of distributions are not reduced as a result of such Tax Event, and shall not have revoked any such election or failed to make such payments or (ii) if the Company shall instead elect to redeem the Debentures, in whole or in part, in the manner set forth in Section 11.8.]

Section 11.10 Purchases of Debentures. Subject to applicable law

(including without limitation, United States federal securities law), the Company or its subsidiaries or Affiliates may at any time and from time to time purchase outstanding Debentures by tender, in the open market or by private agreement.

ARTICLE XII

SUBORDINATION OF DEBENTURES

Section 12.1 Debentures Subordinate to Senior Debt. The Company

covenants and agrees, and each Holder of a Debenture, by its acceptance thereof, likewise covenants and agrees, that, to the extent and in the manner hereinafter set forth in this Article, the payment of the principal of (and premium, if any) and interest (including any Additional Interest) on each and all of the Debentures are hereby expressly made subordinate and subject in right of payment to the prior payment in full in cash of all amounts then due and payable in respect of all Senior Debt (whether outstanding on the date hereof or hereafter created, incurred, assumed or guaranteed), and that the subordination is for the benefit of the holders of Senior Debt and that no payment on account of principal of, premium, if any, or interest on the Debentures and no acquisition of, or payment on account of any sinking fund for, the Debentures may be made unless full payment of all amounts then due for principal, premium, if any, and interest then due on all Senior Debt (by maturity, lapse of time, acceleration or otherwise) has been made or duly provided for in cash or in a manner satisfactory to the holders of such Senior Debt.

Section 12.2 Payment Over of Proceeds Upon Dissolution, Etc. Upon

any distribution of the Company's assets in connection with any dissolution, winding up, liquidation or reorganization of the Company, whether voluntary or involuntary, in bankruptcy, insolvency or receivership proceedings (each such event, if any, herein sometimes referred to as a "Proceeding"), or upon an assignment for the benefit of creditors or otherwise: (i) all Senior Debt (including without limitation all interest accruing on or after the filing of any petition in bankruptcy relating to the Company at the relevant contractual rate, whether or not such claim for post-petition interest is allowed in such proceeding) must be paid in full in cash before the Holders of the Debentures are entitled to any payments or distributions of any kind or character (including any payment or distribution which may be payable or deliverable by reason of the payment of any other Debt of the Company (including the Debentures) subordinated to the payment of the Debentures), and (ii) any payment or distribution of the Company's assets of any kind or character, whether in cash, securities or other property, which would otherwise (but for these subordination provisions) be payable or deliverable in respect of the Debentures shall be paid or delivered directly to the holders of such Senior Debt (or their representative or trustee) in accordance with the priorities then existing among such holders until all

Senior Debt shall have been paid in full in cash before any payment or distribution is made to the Holders of the Debentures.

In the event that notwithstanding the subordination provisions set forth herein, any payment or distribution of assets of any kind or character is made on the Debentures at a time when the respective payment is not permitted to be made as a result of the subordination provisions described above and before all Senior Debt is paid in full in cash, the Trustee or the Holders of the Debentures receiving such payment will be required to pay over such payment or distribution to the holders of such Senior Debt.

For the purposes of this Article only, the words "any payment or distribution of any kind or character" shall not be deemed to include shares of stock of the Company as reorganized or readjusted, or securities of the Company or any other Person provided for by a plan of reorganization or readjustment which securities are subordinated in right of payment to all then outstanding Senior Debt to substantially the same extent as the Debentures are so subordinated as provided in this Article. The consolidation of the Company with, or the merger of the Company into, another Person or the liquidation or dissolution of the Company following the sale of all or substantially all of its properties and assets as an entirety to another Person upon the terms and conditions set forth in Article 8 shall not be deemed a Proceeding for the purposes of this Section if the Person formed by such consolidation or into which the Company is merged or the Person which acquires by sale such properties and assets as an entirety, as the case may be, shall, as a part of such consolidation, merger, or sale comply with the conditions set forth in Article Eight.

Section 12.3 No Payment When Senior Debt in Default. (a) In the

event and during the continuation of any default in the payment of principal of (or premium, if any) or interest on, or other amounts owing with respect to, any Senior Debt, or in the event that any event of default with respect to any Senior Debt shall have occurred and be continuing and shall have resulted in such Senior Debt becoming or being able to be declared due and payable prior to the date it would otherwise have become due and payable, unless and until such event of default shall have been waived or shall have ceased to exist and such acceleration shall have been rescinded or annulled, or (b) in the event any judicial proceeding shall be pending with respect to any such default in payment or such event or default, then, no payment or distribution of any kind or character, whether in cash, properties or Debentures shall be made by the Company on account of principal of (or premium, if any) or interest (including any Additional Interest), if any, on the Debentures or on

account of the purchase or other acquisition of Debentures by the Company or any Subsidiary other than payments made from funds on deposit pursuant to Section 4.1 or from funds on deposit for the redemption of Debentures for which notice of redemption has been given and the Redemption Date has passed.

The Company shall give prompt written notice to the Trustee of any default of the type described in the preceding paragraph in respect of Senior Debt; provided that no failure to give such a notice shall have any effect whatsoever on the subordination provisions described herein.

In the event that, notwithstanding the foregoing, the Company shall make any payment to the Trustee or the Holder of the Debentures prohibited by the foregoing provisions of this Section, and if such fact shall, at or prior to the time of such payment, have been made known as set forth in Section 12.9, to the Trustee or, as the case may be, such Holder, then and in such event such payment shall be paid over and delivered forthwith to the Company.

The provisions of this Section shall not apply to any payment with respect to which Section 12.2 would be applicable.

Section 12.4 Payment Permitted If No Default. Nothing contained in

this Article or elsewhere in this Indenture or in any of the Debentures shall prevent (a) the Company, at any time except during the pendency of any Proceeding referred to in Section 12.2 or under the conditions described in Sections 12.3, from making payments at any time of principal of (and premium, if any) or interest on the Debentures, or (b) except with respect to the payment over provisions of this Article 12, the application by the Trustee of any money deposited with it hereunder to the payment of or on account of the principal of (and premium, if any) or interest (including any Additional Interest) on the Debentures or the retention of such payment by the Holders, if, at the time of such application by the Trustee, the Trustee did not have actual knowledge that such payment would have been prohibited by the provisions of this Article.

Section 12.5 Subrogation to Rights of Holders of Senior Debt.

Subject to the payment in full in cash of all Senior Debt, or the provision for such payment in cash or cash equivalents or otherwise in a manner satisfactory to the holders of Senior Debt, the Holders of the Debentures shall be subrogated to the extent of the payments or distributions made to the holders of such Senior Debt pursuant to the provisions of this Article (equally and ratably with the holders of all

indebtedness of the Company which by its express terms is subordinated to Senior Debt of the Company to substantially the same extent as the Debentures are Subordinated to the Senior Debt and is entitled to like rights of subrogation by reason of any payments or distributions made to holders of such Senior Debt) to the rights of the holders of such Senior Debt to receive payments and distributions of cash, property and securities applicable to the Senior Debt until the principal of (and premium, if any) and interest on the Debentures shall be paid in full. For purposes of such subrogation, no payments or distributions to the holders of the Senior Debt of any cash, property or securities to which the Holders of the Debentures or the Trustee would be entitled except for the provisions of this Article, and no payments pursuant to the provisions of this Article to the holders of Senior Debt by Holders of the Debentures or the Trustee, shall, as among the Company, its creditors other than holders of Senior Debt, and the Holders of the Debentures, be deemed to be a payment or distribution by the Company to or on account of the Senior Debt.

Section 12.6 Provisions Solely to Define Relative Rights. The

provisions of this Article are and are intended solely for the purpose of defining the relative rights of the Holders of the Debentures on the one hand and the holders of Senior Debt on the other hand. Nothing contained in this Article or elsewhere in this Indenture or in the Debentures is intended to or shall (a) impair, as between the Company and the Holders of the Debentures, the obligations of the Company, which are absolute and unconditional, to pay to the Holders of the Debentures the principal of (and premium, if any) and interest (including any Additional Interest) on the Debentures as and when the same shall become due and payable in accordance with their terms, or (b) affect the relative rights against the Company of the Holders of the Debentures and creditors of the Company other than their rights in relation to the holders of Senior Debt, or (c) prevent the Trustee or the Holder of any Debenture from exercising all remedies otherwise permitted by applicable law upon default under this Indenture including, without limitation, filing and voting claims in any Proceeding, subject to the rights, if any, under this Article of the holders of Senior Debt to receive cash, property and securities otherwise payable or deliverable to the Trustee or such Holder.

Section 12.7 Trustee to Effectuate Subordination. Each Holder of a

Debenture by his or her acceptance thereof authorizes and directs the Trustee on his or her behalf to take such action as may be necessary or appropriate to acknowledge or effectuate the subordination provided in this Article and appoints the Trustee his or her attorney-in-fact for any and all such purposes.

Section 12.8 No Waiver of Subordination Provisions. No right of any

present or future holder of any Senior Debt to enforce subordination as herein provided shall at any time in any way be prejudiced or impaired by any act or failure to act on the part of the Company or by any act or failure to act, in good faith, by any such holder, or by any noncompliance by the Company with the terms, provisions and covenants of this Indenture, regardless of any knowledge thereof that any such holder may have or be otherwise charged with.

Section 12.9 Notice to Trustee. The Company shall give prompt

written notice to the Trustee of any fact known to the Company which would prohibit the making of any payment to or by the Trustee in respect of the Debentures. Notwithstanding the provisions of this Article or any other provision of this Indenture, the Trustee shall not be charged with knowledge of the existence of any facts which would prohibit the making of any payment to or by the Trustee in respect of the Debentures, unless and until the Trustee shall have received written notice thereof from the Company or a person representing itself as a holder of Senior Debt or from any trustee, agent or representative therefor (whether or not the facts contained in such notice are true).

Section 12.10 Reliance on Judicial Order or Certificate of

Liquidating Agent. Upon any payment or distribution of assets of the Company

referred to in this Article, the Trustee, subject to the provisions of Article 6, and the Holders of the Debentures shall be entitled to rely upon any order or decree entered by any court of competent jurisdiction in which a Proceeding is pending, or a certificate of the trustee in bankruptcy, receiver, liquidating trustee, custodian, assignee for the benefit of creditors, agent or other Person making such payment or distribution, delivered to the Trustee or to the Holders of Debentures, for the purpose of ascertaining the Persons entitled to participate in such payment or distribution, the holders of the Senior Debt 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.

Section 12.11 Trustee Not Fiduciary for Holders of Senior Debt. With

respect to the holders of the Senior Debt of the Company, the Trustee under takes to perform or observe only such of its obligations and covenants as are set forth in this Article 12, and no implied covenants or obligations with respect to the holders of such Senior Debt shall be read into this Indenture against Chase Manhattan Trust Company, National Association and/or the Trustee. Chase Manhattan Trust Company, National Association and/or the Trustee shall not be deemed to owe any fiduciary duty to the holders of such Senior Debt and, subject to the

provisions of Section 6.3, neither the Trustee (nor Chase Manhattan Trust Company, National Association) shall be liable to the holder of any Senior Debt if it shall pay over or deliver to Holders, the Company, or any other Person, money or assets to which any holder of such Senior Debt shall be entitled to by virtue of this Article 12 or otherwise.

Section 12.12 Rights of Trustee as Holder of Senior Debt;

Preservation of Trustee's Rights. The Trustee in its individual capacity

shall be entitled to all the rights set forth in this Article with respect to any Senior Debt which may at any time be held by it, to the same extent as any other holder of Senior Debt, and, subject to the requirements of the Trust Indenture Act, nothing in this Indenture shall deprive the Trustee of any of its rights as such holder.

Section 12.13 Article Applicable to Paying Agents. In case at any

time any Paying Agent other than the Trustee shall have been appointed by the Company and be then acting hereunder, the term "Trustee" as used in this Article shall in such case (unless the context otherwise requires) be construed as extending to and including such Paying Agent within its meaning as fully for all intent and purposes as if such Paying Agent were named in this Article in addition to or in place of the Trustee.

Section 12.14 Certain Conversions or Exchanges Deemed Payment. For

the purpose of this Article only, (a) the issuance and delivery of junior securities upon conversion or exchange of Debentures shall not be deemed to constitute a payment or distribution on account of the principal of (or premium, if any) or interest (including any Additional Interest) on the Debentures or on account of the purchase or other acquisition of Debentures, and (b) the payment, issuance or delivery of cash (including any payments for fractional shares), property or securities (other than junior securities) upon conversion or exchange of a Debenture shall be deemed to constitute payment on account of the principal of such Debenture. For the purpose of this Section, the term "junior securities" means (i) shares of any stock of any class of the Company and (ii) securities of the Company which are subordinated in right of payment to all Senior Debt which may be outstanding at the time of issuance or delivery of such securities to substantially the same extent as, or to a greater extent than, the Debentures are so subordinated as provided in this Article.

Section 12.15 Trust Moneys Not Subordinated. Notwithstanding

anything contained herein to the contrary (provided that at the time deposited,

such deposit did not violate any then outstanding Senior Debt), payments from money or the proceeds of Government Obligations held in trust under Article 4 by the Trustee

for the payment of principal of and interest on the Debentures shall not be subordinated to the prior payment of any Senior Debt or subject to the restrictions set forth in this Article 12, and none of the Holders shall be obligated to pay over any such amount to the Company or any holder of Senior Debt of the Company or any other creditor of the Company.

ARTICLE XII

[CONVERSION OF DEBENTURES

Section 13.1 Conversion Rights. Subject to and upon compliance with

the provisions of this Article, the Debentures are convertible, at the option of the Holder, at any time prior to redemption or Maturity, into fully paid and nonassessable shares of Common Stock of the Company at an initial conversion rate of _____ shares of Common Stock for each \$[1,000] in aggregate principal amount of Debentures (equal to a conversion price of \$_____ per share of Common Stock), subject to adjustment as described in this Article 13 (as adjusted the "Conversion Price"). A Holder of Debentures may convert any portion of the principal amount of the Debentures into that number of fully paid and nonassessable shares of Common Stock (calculated as to each conversion to the nearest 1/100th of a share) obtained by dividing the principal amount of the Debentures to be converted by the Conversion Price. In case a Debenture or portion thereof is called for redemption, such conversion right in respect of the Debenture or portion so called shall expire at the close of business on the Business Day immediately preceding the corresponding Redemption Date, unless the Company defaults in making the payment due upon redemption.

Section 13.2 Conversion Procedures. (a) In order to convert all or

a portion of the Debentures, the Holder thereof shall deliver to the [Property Trustee, as] conversion agent or to such other agent appointed for such purposes (the "Conversion Agent") an irrevocable Notice of Conversion setting forth the principal amount of Debentures to be converted, together with the name or names, if other than the Holder, in which the shares of Common Stock should be issued upon conversion and, if such Debentures are definitive Debentures, surrender to the Conversion Agent the Debentures to be converted, duly endorsed or assigned to the Company or in blank. [In addition, a holder of Preferred Securities may exercise its right under the Trust Agreement to convert such Preferred Securities into Common Stock by delivering to the Conversion Agent an irrevocable Notice of Conversion setting forth the information called for by the preceding sentence and directing the Conversion

Agent (i) to exchange such Preferred Security for a portion of the Debentures held by the Trust (at an exchange rate of \$50 principal amount of Debentures for each Preferred Security) and (ii) to immediately convert such Debentures, on behalf of such holder, into Common Stock of the Company pursuant to this Article 13 and, if such Preferred Securities are in definitive form, surrendering such Preferred Securities, duly endorsed or assigned to the Company or in blank. So long as any Preferred Securities are outstanding, the Trust shall not convert any Debentures except pursuant to a Notice of Conversion delivered to the Conversion Agent by a holder of Preferred Securities.]

If a Notice of Conversion is delivered on or after the Regular Record Date and prior to the subsequent Interest Payment Date, the Holder of record on the Regular Record Date will be entitled to receive the interest paid on the subsequent Interest Payment Date on the portion of Debentures to be converted notwithstanding the conversion thereof prior to such Interest Payment Date. Except as otherwise provided in the immediately preceding sentence, in the case of any Debenture which is converted, interest whose Stated Maturity is on or after the date of conversion of such Debenture shall not be payable, and the Company shall not make nor be required to make any other payment, adjustment or allowance with respect to accrued but unpaid interest on the Debentures being converted, which shall be deemed to be paid in full. Each conversion shall be deemed to have been effected immediately prior to the close of business on the day on which the Notice of Conversion was received (the "Conversion Date") by the Conversion Agent from the Holder or from a holder of the Preferred Securities effecting a conversion thereof pursuant to its conversion rights under the Trust Agreement, as the case may be. The Person or Persons entitled to receive the Common Stock issuable upon such conversion shall be treated for all purposes as the record holder or holders of such Common Stock as of the Conversion Date and such Person or Persons will cease to be a record Holder or record Holders of the Debentures on that date. As promptly as practicable on or after the Conversion Date, the Company shall issue and deliver at the office of the Conversion Agent, unless otherwise directed by the Holder or Holders in the Notice of Conversion, a certificate or certificates for the number of full shares of Common Stock issuable upon such conversion, together with the cash payment, if any, in lieu of any fraction of any share to the Person or Persons entitled to receive the same. The Conversion Agent shall deliver such certificate or certificates to such Person or Persons.

(b) The Company's delivery upon conversion of the fixed number of shares of Common Stock into which the Debentures are convertible

(together with the cash payment, if any, in lieu of fractional shares) shall be deemed to satisfy the Company's obligation to pay the principal amount at Maturity of the portion of Debentures so converted and any unpaid interest (including Additional Interest) accrued on such Debentures at the time of such conversion.

(c) No fractional shares of Common Stock will be issued as a result of conversion, but in lieu thereof, the Company shall pay to the Conversion Agent a cash adjustment in an amount equal to the same fraction of the Current Market Price with respect to such fractional interest on the date on which the Debentures or Preferred Securities, as the case may be, were duly surrendered to the Conversion Agent for conversion, and the Conversion Agent in turn will make such payment, if any, to the Holder of the Debentures or the holder of the Preferred Securities so converted.

(d) In the event of the conversion of any Debenture in part only, a new Debenture or Debentures for the unconverted portion thereof will be issued in the name of the Holder thereof upon the cancellation of the Debenture converted in part in accordance with Section 3.5.

(e) In effecting the conversion transactions described in this Section, the Conversion Agent is acting [as agent of the holders of Preferred Securities (in the exchange of Preferred Securities for Debentures) and] as agent of the Holders of Debentures (in the conversion of Debentures into Common Stock)[, as the case may be,] directing it to effect such conversion transactions. The Conversion Agent is hereby authorized [(i) to exchange Debentures held by the Trust from time to time for Preferred Securities in connection with the conversion of such Preferred Securities in accordance with this Article 13 and (ii) [to convert all or a portion of the Debentures into Common Stock and thereupon to deliver such shares of Common Stock in accordance with the provisions of this Article 13 [and to deliver to the Trust a new Debenture or Debentures for any resulting unconverted principal amount.]

(f) The Company shall at all times reserve and keep available out of its authorized and unissued Common Stock, solely for issuance upon the conversion of the Debentures, such number of shares of Common Stock as shall from time to time be issuable upon the conversion of all the Debentures then outstanding. Notwithstanding the foregoing, the Company shall be entitled to deliver upon conversion of Debentures shares of Common Stock reacquired and held in the treasury of the Company (in lieu of the issuance of authorized and unissued shares of Common Stock) so long as any such treasury shares are free and clear of all liens,

charges, security interests or encumbrances. Whenever the Company issues shares of Common Stock upon conversion of Debentures and the Company has in effect at such time a share purchase rights agreement under which holders of Common Stock are issued rights ("Rights") entitling the holders under certain circumstances to purchase an additional share or shares of stock, the Company will issue, together with each such share of Common Stock, such number of Rights (which number may be a fraction) as shall at that time be issuable with a share of Common Stock pursuant to such share purchase rights agreement. Any shares of Common Stock issued upon conversion of the Debentures shall be duly authorized, validly issued and fully paid and nonassessable. The Conversion Agent shall deliver the shares of Common Stock received upon conversion of the Debentures to the converting Holder free and clear of all liens, charges, security interests and encumbrances, except for United States withholding taxes. The Company shall use its best efforts to obtain and keep in force such governmental or regulatory permits or other authorizations as may be required by law, and shall comply with all applicable requirements as to registration or qualification of the Common Stock (and all requirements to list the Common Stock issuable upon conversion of Debentures that are at the time applicable), in order to enable the Company to lawfully issue Common Stock upon conversion of the Debentures and to lawfully deliver the Common Stock to each Holder upon conversion of the Debentures.

(g) The Company will pay any and all taxes that may be payable in respect of the issue or delivery of shares of Common Stock on conversion of Debentures. The Company shall not, however, be required to pay any tax which may be payable in respect of any transfer involved in the issue and delivery of shares of Common Stock in a name other than that in which the Debentures so converted were registered, and no such issue or delivery shall be made unless and until the Person requesting such issue has paid to the Conversion Agent the amount of any such tax, or has established to the satisfaction of the Conversion Agent that such tax has been paid.

(h) Nothing in this Article 13 shall limit the requirement of the Company to withhold taxes pursuant to the terms of the Debentures or as set forth in this Agreement or otherwise require the Trustee or the Company to pay any amounts on account of such withholdings.

Section 13.3 Conversion Price Adjustments. The conversion price

shall be subject to adjustment (without duplication) from time to time as follows:

(a) In case the Company shall, while any of the Debentures are outstanding, (i) pay a dividend or make a distribution with respect to its Common Stock in shares of Common Stock, (ii) subdivide its outstanding shares of Common Stock, (iii) combine its outstanding shares of Common Stock into a smaller number of shares or (iv) issue by reclassification of its shares of Common Stock any shares of capital stock of the Company, the conversion privilege and the Conversion Price in effect immediately prior to such action shall be adjusted so that the Holder of any Debentures thereafter surrendered for conversion shall be entitled to receive the number of shares of capital stock of the Company which he would have owned immediately following such action had such Debentures been converted immediately prior thereto. An adjustment made pursuant to this subsection (a) shall become effective immediately after the record date in the case of a dividend or other distribution and shall become effective immediately after the effective date in case of a subdivision, combination or reclassification (or immediately after the record date if a record date shall have been established for such event). If, as a result of an adjustment made pursuant to this subsection (a), the Holder of any Debenture thereafter surrendered for conversion shall become entitled to receive shares of two or more classes or series of capital stock of the Company, the Board of Directors (whose determination shall be conclusive and shall be described in a Board Resolution filed with the Trustee) shall determine the allocation of the adjusted Conversion Price between or among shares of such classes or series of capital stock. In the event that such dividend, distribution, subdivision, combination or issuance is not so paid or made, the Conversion Price shall again be adjusted to be the Conversion Price which would then be in effect if such record date had not been fixed.

(b) In case the Company shall, while any of the Debentures are Outstanding, issue rights or warrants to all holders of its Common Stock entitling them (for a period expiring within 45 days after the record date mentioned below) to subscribe for or purchase shares of Common Stock at a price per share less than the Current Market Price per share of Common Stock on the record date mentioned below, the Conversion Price for the Debentures shall be adjusted so that the same shall equal the price determined by multiplying the Conversion Price in effect immediately prior to the date of issuance of such rights or warrants by a fraction, the numerator of which shall be the number of shares of Common Stock outstanding on the date of issuance of such rights or warrants plus the number of shares which the aggregate offering price of the total number of shares so offered for subscription or purchase would purchase at such Current Market Price, and the denominator of which shall be the number of shares of Common Stock outstanding on the date of issuance of such rights or warrants plus the number of additional shares of Common

Stock offered for subscription or purchase. Such adjustment shall become effective immediately after the record date for the determination of stockholders entitled to receive such rights or warrants. For the purposes of this subsection, the number of shares of Common Stock at any time outstanding shall not include shares held in the treasury of the Company. The Company shall not issue any rights or warrants in respect of shares of Common Stock held in the treasury of the Company. In case any rights or warrants referred to in this subsection in respect of which an adjustment shall have been made shall expire unexercised within 45 days after the same shall have been distributed or issued by the Company, the Conversion Price shall be readjusted at the time of such expiration to the Conversion Price that would have been in effect if no adjustment had been made on account of the distribution or issuance of such expired rights or warrants.

(c) Subject to the last sentence of this subparagraph, in case the Company shall, by dividend or otherwise, distribute to all holders of its Common Stock evidences of its indebtedness, shares of any class or series of capital stock, cash or assets (including securities, but excluding any rights or warrants referred to in subparagraph (b)), any dividend or distribution paid exclusively in cash and any dividend or distribution referred to in subparagraph (a) of this Section 13.3), the Conversion Price shall be reduced so that the same shall equal the price determined by multiplying the Conversion Price in effect immediately prior to the effectiveness of the Conversion Price reduction contemplated by this subparagraph (c) by a fraction, the numerator of which shall be the Current Market Price per share of the Common Stock on the date fixed for the payment of such distribution (the "Reference Date") less the fair market value (as determined in good faith by the Board of Directors, whose determination shall be conclusive and described in a resolution of the Board of Directors), on the Reference Date, of the portion of the evidences of indebtedness, shares of capital stock, cash and assets so distributed applicable to one share of Common Stock, and the denominator of which shall be such Current Market Price per share of the Common Stock, such reduction to become effective immediately prior to the opening of business on the day following the Reference Date. In the event that such dividend or distribution is not so paid or made, the Conversion Price shall again be adjusted to be the Conversion Price which would then be in effect if such dividend or distribution had not occurred. For purposes of this subparagraph (c), any dividend or distribution that includes shares of Common Stock or rights or warrants to subscribe for or purchase shares of Common Stock shall be deemed instead to be (i) a dividend or distribution of the evidences of indebtedness, shares of capital stock, cash or assets other than such shares of Common Stock or such rights or warrants (making any Conversion Price reduction required by this

subparagraph (c)) immediately followed by (ii) a dividend or distribution of such shares of Common Stock or such rights or warrants (making any further conversion price reduction required by subparagraph (a) or (b)), except (A) the Reference Date of such dividend or distribution as defined in this subparagraph shall be substituted as (x) "the record date in the case of a dividend or other distribution," and (y) "the record date for the determination of stockholders entitled to receive such rights or warrants" and (z) "the date fixed for such determination" within the meaning of subparagraphs (a) and (b) and (B) any shares of Common Stock included in such dividend or distribution shall not be deemed outstanding for purposes of computing any adjustment of the conversion price in subparagraph (a).

(d) In case the Company shall pay or make a dividend or other distribution on its Common Stock exclusively in cash (excluding all cash dividends, if the annualized amount thereof per share of Common Stock does not exceed 12.5% of the Current Market Price per share of the Common Stock on the trading day immediately preceding the date of declaration of such dividend), the Conversion Price shall be reduced so that the same shall equal the price determined by multiplying the Conversion Price in effect immediately prior to the effectiveness of the Conversion Price reduction contemplated by this subparagraph (d) by a fraction, the numerator of which shall be the Current Market Price per share of the Common Stock on the date fixed for the payment of such distribution less the amount of cash so distributed (excluding that portion of such distribution that does not exceed 12.5% of the Current Market Price per share, determined as provided above) applicable to one share of Common Stock and the denominator of which shall be such Current Market Price per share of the Common Stock, such reduction to become effective immediately prior to the opening of business on the day following the date fixed for the payment of such distribution; provided, however, that in the event the portion of the cash so

distributed applicable to one share of Common Stock is equal to or greater than the Current Market Price per share of the Common Stock on the record date mentioned above (excluding that portion of such distribution that does not exceed 12.5% of the Current Market Price per share, determined as provided above), in lieu of the foregoing adjustment, adequate provision shall be made so that each Holder of shares of Debentures shall have the right to receive upon conversion the amount of cash such Holder would have received had such Holder converted each share of the Debentures immediately prior to the record date for the distribution of the cash (less that portion of such distribution that does not exceed 12.5% of the Current Market Price per share, determined as provided above). In the event that such dividend or distribution is not so paid or made, the Conversion Price

shall again be adjusted to be the conversion price which would then be in effect if such record date had not been fixed.

(e) In case a tender or exchange offer (other than an odd-lot offer) made by the Company or any Subsidiary of the Company for all or any portion of the Common Stock shall expire and such tender or exchange offer shall involve the payment by the Company or such Subsidiary of consideration per share of Common Stock having a fair market value (as determined in good faith by the Board of Directors, whose determination shall be conclusive and described in a resolution of the Board of Directors) at the last time (the "Expiration Time") tenders or exchanges may be made pursuant to such tender or exchange offer (as it shall have been amended) that exceeds 110% of the Current Market Price per share of the Common Stock on the trading day next succeeding the Expiration Time, the Conversion Price shall be reduced so that the same shall equal the price determined by multiplying the Conversion Price in effect immediately prior to the effectiveness of the Conversion Price reduction contemplated by this subparagraph (e) by a fraction, the numerator of which shall be the number of shares of Common Stock outstanding (including any tendered or exchanged shares) at the Expiration Time (including the Purchased Shares) (as defined below) multiplied by the Current Market Price per share of the Common Stock on the Trading Day next succeeding the Expiration Time and the denominator of which shall be the sum of (x) the fair market value (determined as aforesaid) of the aggregate consideration payable to stockholders based on the acceptance (up to any maximum specified in the terms of the tender or exchange offer) of all shares validly tendered or exchanged and not withdrawn as of the Expiration Time (the shares deemed so accepted, up to any such maximum, being referred to as the "Purchased Shares") (excluding that portion of such consideration that does not exceed 110% of the Current Market Price per share) and (y) the product of the number of shares of Common Stock outstanding (less any Purchased Shares) at the Expiration Time and the Current Market Price per share of the Common Stock on the trading day next succeeding the Expiration Time, such reduction to become effective immediately prior to the opening of business on the day following the Expiration Time. In the event that such tender or exchange offer is not so made, the Conversion Price shall again be adjusted to be the Conversion Price which would then be in effect if such record date had not been fixed.

(f) If the distribution date for the Rights of the Company provided in a share purchase rights agreement occurs prior to the Conversion Date, and a Holder of the Debentures who converts such Debentures after such distribution date is not entitled to receive

the Rights that would otherwise be attached (but for the date of conversion) to the shares of Common Stock received upon such conversion, then an adjustment shall be made to the Conversion Price pursuant to clause (ii) of Section 13.4(a) as if the Rights were being distributed to the common stockholders of the Company immediately prior to such conversion. If such an adjustment is made and the Rights are later redeemed, invalidated or terminated, then a corresponding reversing adjustment shall be made to the Conversion Price, on an equitable basis, to take account of such event.

(g) The Company shall have the right to reduce from time to time the Conversion Price by any amount selected by the Company for any period of at least 30 days, provided, that the Company shall give at least 15 days' notice of

such reduction to the Trustee [and the Property Trustee]. The Company may, at its option, make such reductions in the Conversion Price, in addition to those set forth above in Section 13.4(a), as the Board of Directors deems advisable to avoid or diminish any income tax to holders of Common Stock resulting from any dividend or distribution of stock (or rights to acquire stock) or from any event treated as such for income tax purposes. No adjustment of the Conversion Price will be made upon the issuance of any shares of Common Stock (or securities convertible into or exercisable or exchangeable for Common Stock) except as specifically described above including pursuant to any present or future plan providing for the reinvestment of dividends or interest payable on securities of the Company and the investment of additional optional amounts in shares of Common Stock under any such plan, or the issuance of any shares of Common Stock or options or rights to purchase such shares pursuant to any present or future employee benefit plan or program of the Company or pursuant to any option, warrant, right, or exercisable, exchangeable or convertible security which does not constitute an issuance to all holders of Common Stock of rights or warrants entitling holders of such rights or warrants to subscribe for or purchase Common Stock at less than the Current Market Price. No adjustment in the Conversion Price will be required unless such adjustment would require an increase or decrease of at least 1% of the Conversion Price, but any adjustment that would otherwise be required to be made shall be carried forward and taken into account in a subsequent adjustment.

(h) If any action would require adjustment of the Conversion Price pursuant to more than one of the provisions described above, only one adjustment shall be made and such adjustment shall be the amount of adjustment that has the highest absolute value to the Holder of the Debentures.

Section 13.4 Fundamental Change. (a) In the event that the Company

is a party to any transaction (including, without limitation, a merger other than a merger that does not result in a reclassification, conversion, exchange or cancellation of Common Stock), consolidation, sale of all or substantially all of the assets of the Company, recapitalization or reclassification of Common Stock (other than a reclassification or recapitalization to which Section 13.3(a) is applicable) or any compulsory share exchange (each of the foregoing being referred to as a "Transaction"), in each case, as a result of which shares of Common Stock shall be converted into the right to receive, or shall be exchanged for, (i) in the case of any Transaction other than a Transaction involving a Common Stock Fundamental Change (and subject to funds being legally available for such purpose under applicable law at the time of such conversion), securities, cash or other property, each Debenture shall thereafter be convertible into the kind and, in the case of a Transaction which does not involve a Fundamental Change, amount of securities, cash and other property receivable upon the consummation of such Transaction by a holder of that number of shares of Common Stock into which a Debenture was convertible immediately prior to such Transaction, or (ii) in the case of a Transaction involving a Common Stock Fundamental Change, common stock, each Debenture shall thereafter be convertible (in the manner described herein) into common stock of the kind received by holders of Common Stock (but in each case after giving effect to any adjustment discussed in paragraphs (b) and (c) relating to a Fundamental Change if such Transaction constitutes a Fundamental Change). The holders of Debentures or Preferred Securities will have no voting rights with respect to any Transaction described in this section.

(b) If any Fundamental Change occurs, then the Conversion Price in effect will be adjusted immediately after such Fundamental Change as described in paragraph (c) below. In addition, in the event of a Common Stock Fundamental Change, each Debenture shall be convertible solely into common stock of the kind received by holders of Common Stock as a result of such Common Stock Fundamental Change.

(c) The Conversion Price in the case of any Transaction involving a Fundamental Change will be adjusted immediately after such Fundamental Change:

(1) in the case of a Non-Stock Fundamental Change, the Conversion Price of the Debentures will thereupon become the lower of (A) the Conversion Price in effect immediately prior to such Non-Stock Fundamental Change, but after giving effect

to any other prior adjustments, and (B) the result obtained by multiplying the greater of the Applicable Price or the then applicable Reference Market Price by a fraction, the numerator of which will be \$50 and the denominator of which will be (x) the amount of the redemption price for each \$50 aggregate principal amount of Debentures if the redemption date were the date of such Non-Stock Fundamental Change (or, for the period commencing on the first date of original issuance of the Debentures and through _____, 20__, and the twelve-month periods commencing _____, 20__ and _____, 20__, the product of _____%, _____% and _____%, respectively, multiplied by \$50) plus (y) any then-accrued and unpaid interest on the Debentures; and

(2) in the case of a Common Stock Fundamental Change, the Conversion Price of the Debentures in effect immediately prior to such Common Stock Fundamental Change, but after giving effect to any other prior adjustments, will thereupon be adjusted by multiplying such Conversion Price by a fraction, the numerator of which will be the Purchaser Stock Price and the denominator will be the Applicable Price; provided, however, that in the event of a Common Stock Fundamental Change in which (A) 100% of the value of the consideration received by a holder of Common Stock is common stock of the successor, acquiror, or other third party (and cash, if any, is paid only with respect to any fractional interests in such common stock resulting from such Common Stock Fundamental Change) and (B) all of the Common Stock will have been exchanged for, converted into, or acquired for common stock (and cash with respect to fractional interests) of the successor, acquiror, or other third party, the Conversion Price of the Debentures in effect immediately prior to such Common Stock Fundamental Change will thereupon be adjusted by multiplying such Conversion Price by a fraction, the numerator of which will be one and the denominator of which will be the number of shares of common stock of the successor, acquiror, or other third party received by a holder of one share of Common Stock as a result of such Common Stock Fundamental Change.

Section 13.5 Notice of Adjustments of Conversion Price. Whenever

the Conversion Price is adjusted as herein provided:

(a) the Company shall compute the adjusted Conversion Price and shall prepare a certificate signed by the Chief Financial Officer or the Treasurer of the Company setting forth the adjusted Conversion Price and showing in reasonable detail the facts upon which such adjustment is based, and such certificate shall forthwith be filed with the Trustee, the Conversion Agent and the transfer agent for the Preferred Securities and the Debentures; and

(b) a notice stating the Conversion Price has been adjusted and setting forth the adjusted Conversion Price shall as soon as practicable be mailed by the Company to all record holders of Preferred Securities and the Debentures at their last addresses as they appear upon the stock transfer books of the Company and the Trust and the Securities Registrar.

Section 13.6 Prior Notice of Certain Events.

In case:

(i) the Company shall (A) declare any dividend (or any other distribution) on its Common Stock, other than (x) a dividend payable in shares of Common Stock or (y) a dividend payable in cash that would not require an adjustment pursuant to Section 13.4(c) or (d) or (B) authorize a tender or exchange offer that would require an adjustment pursuant to Section 13.4(e);

(ii) the Company shall authorize the granting to all holders of Common Stock of rights or warrants to subscribe for or purchase any shares of stock of any class or series or of any other rights or warrants;

(iii) of any reclassification of Common Stock (other than a subdivision or combination of the outstanding Common Stock, or a change in par value, or from par value to no par value, or from no par value to par value), or of any consolidation or merger to which the Company is a party and for which approval of stockholders of the Company shall be required, or of the sale or transfer of all or substantially all of the assets of the Company or of any compulsory share exchange whereby the Common Stock is converted into other securities, cash or other property; or

(iv) of the voluntary or involuntary dissolution, liquidation or winding up of the Company;

then the Company shall [(A) if any Preferred Securities are outstanding under the Trust Agreement, cause to be filed with the transfer agent for the Preferred Securities, and shall cause to be mailed to the holders of record of the Preferred Securities, at their last addresses as they shall appear upon the stock transfer books of the Trust or (B)] cause to be mailed to all Holders at their last addresses as they shall appear in the Security Register, at least 15 days prior to the applicable record or effective date hereinafter specified, a notice stating (x) the date on which a record (if any) is to be taken for the purpose of such dividend, distribution, rights or warrants or, if a record is not to be taken, the date as of which the holders of Common Stock of record to be entitled to such dividend, distribution, rights or warrants are to be determined or (y) the date on which such reclassification, consolidation, merger, sale, transfer, share exchange, dissolution, liquidation or winding up is expected to become effective, and the date as of which it is expected that holders of Common Stock of record shall be entitled to exchange their shares of Common Stock for securities, cash or other property deliverable upon such reclassification, consolidation, merger, sale, transfer, share exchange, dissolution, liquidation or winding up (but no failure to mail such notice or any defect therein or in the mailing thereof shall affect the validity of the corporate action required to be specified in such notice).

Section 13.7 Dividend or Interest Reinvestment Plans.

Notwithstanding anything to the contrary in this Article 13, the issuance of any shares of Common Stock pursuant to any plan providing for the reinvestment of dividends or interest payable on securities of the Company and the investment of additional optional amounts in shares of Common Stock under any such plan, and the issuance of any shares of Common Stock or options or rights to purchase such shares pursuant to any employee benefit plan or program of the Company or pursuant to any option, warrant, right or exercisable, exchangeable or convertible security outstanding as of the date the Debentures were first issued, shall not be deemed to constitute an issuance of Common Stock or exercisable, exchangeable or convertible securities by the Company to which any of the adjustment provisions described above applies. There shall also be no adjustment of the Conversion Price in case of the issuance of any stock (or securities convertible into or exchangeable for stock) of the Company except as specifically described in this Article 13.

Section 13.8 Certain Additional Rights. In case the Company shall,

by dividend or otherwise, declare or make a distribution on its Common Stock referred to in Section 13.4(c) or 13.4(d) (including, without limitation, dividends or distributions referred to in the last sentence of Section 13.4(c)), the Holders of the

Debentures, upon the conversion thereof subsequent to the close of business on the date fixed for the determination of stockholders entitled to receive such distribution and prior to the effectiveness of the Conversion Price adjustment in respect of such distribution, shall also be entitled to receive for each share of Common Stock into which the Debentures are converted, the portion of the shares of Common Stock, rights, warrants, evidences of indebtedness, shares of capital stock, cash and assets so distributed applicable to one share of Common Stock; provided, however, that, at the election of the Company (whose

election shall be evidenced by a resolution of the Board of Directors) with respect to all Holders so converting, the Company may, in lieu of distributing to such Holder any portion of such distribution not consisting of cash or securities of the Company, pay such Holder an amount in cash equal to the fair market value thereof (as determined in good faith by the Board of Directors, whose determination shall be conclusive and described in a resolution of the Board of Directors). If any conversion of Debentures described in the immediately preceding sentence occurs prior to the payment date for a distribution to holders of Common Stock which the Holder of Debentures so converted is entitled to receive in accordance with the immediately preceding sentence, the Company may elect (such election to be evidenced by a resolution of the Board of Directors) to distribute to such Holder a due bill for the shares of Common Stock, rights, warrants, evidences of indebtedness, shares of capital stock, cash or assets to which such Holder is so entitled, provided,

that such due bill (i) meets any applicable requirements of the principal national securities exchange or other market on which the Common Stock is then traded and (ii) requires payment or delivery of such shares of Common Stock, rights, warrants, evidences of indebtedness, shares of capital stock, cash or assets no later than the date of payment or delivery thereof to holders of shares of Common Stock receiving such distribution.

Section 13.9 Trustee Not Responsible for Determining Conversion

Price or Adjustments. Neither the Trustee nor any Conversion Agent shall at any

time be under any duty or responsibility to any Holder of any Debenture [or to any holder of a Preferred Security] to determine whether any facts exist which may require any adjustment of the Conversion Price, or with respect to the nature or extent of any such adjustment when made, or with respect to the method employed, or herein or in any supplemental indenture provided to be employed, in making the same. Neither the Trustee nor any Conversion Agent shall be accountable with respect to the validity or value (or the kind of account) of any shares of Common Stock or of any securities or property, which may at any time be issued or delivered upon the conversion of any Debenture; and neither the Trustee nor any Conversion Agent makes any representation with respect thereto. Neither the Trustee nor any

Conversion Agent shall be responsible for any failure of the Company to make any cash payment or to issue, transfer or deliver any shares of Common Stock or stock certificates or other securities or property upon the surrender of any Debenture for the purpose of conversion, or, except as expressly herein provided, to comply with this Article 13.]

* * * *

This instrument 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.

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

ALCOA INC.

By: _____

CHASE MANHATTAN TRUST COMPANY, National
Association as Trustee

By: _____

[Annex A

Declaration of Trust]

[Annex B

Amended and Restated Trust Agreement]

[Annex C

Guarantee Agreement]

COMPUTATION OF RATIO OF EARNINGS TO FIXED CHARGES

FOR THE YEAR ENDED DECEMBER 31

(in millions, except ratios)

	2000	1999	1998	1997	1996
	----	----	----	----	----
Earnings:					
Income before taxes on income and before accounting change	\$ 2,812	\$ 1,849	\$ 1,605	\$ 1,602	\$ 1,082
Minority interests' share of earnings of majority-owned subsidiaries without fixed charges	1	--	(2)	3	4
Less equity earnings	(115)	(55)	(50)	(42)	(30)
Fixed charges added to net income	470	232	245	182	171
Distributed income of less than 50% owned persons	9	9	--	--	--
Amortization of capitalized interest:					
Consolidated	15	15	20	20	22
Proportionate share of 50% owned persons	--	--	--	1	1
	-----	-----	-----	-----	-----
Total earnings	\$ 3,192	\$ 2,050	\$ 1,818	\$ 1,766	\$ 1,250
	=====	=====	=====	=====	=====
Fixed Charges:					
Interest expense:					
Consolidated	\$ 427	\$ 195	\$ 198	\$ 141	\$ 134
Proportionate share of 50% owned persons	6	4	3	3	5
	-----	-----	-----	-----	-----
	433	199	201	144	139
	-----	-----	-----	-----	-----
Amount representative of the interest factor in rents:					
Consolidated	35	32	43	37	32
Proportionate share of 50% owned persons	2	1	1	1	--
	-----	-----	-----	-----	-----
	37	33	44	38	32
	-----	-----	-----	-----	-----
Fixed charges added to earnings	470	232	245	182	171
	-----	-----	-----	-----	-----
Interest capitalized:					
Consolidated	20	21	13	9	5
Proportionate share of 50% owned persons	--	--	--	--	--
	-----	-----	-----	-----	-----
	20	21	13	9	5
	-----	-----	-----	-----	-----
Preferred stock dividend requirements of majority-owned subsidiaries	--	--	--	--	--
	-----	-----	-----	-----	-----
Total fixed charges	\$ 490	\$ 253	\$ 258	\$ 191	\$ 176
	=====	=====	=====	=====	=====
Ratio of earnings to fixed charges	6.5	8.1	7.0	9.2	7.1
	=====	=====	=====	=====	=====

CONSENT OF INDEPENDENT ACCOUNTANTS

We hereby consent to the incorporation by reference in this Registration Statement on Form S-3, of our reports dated January 8, 2001, except for Note U, for which the date is January 31, 2001, relating to the consolidated financial statements and financial statement schedule of Alcoa Inc. and consolidated subsidiaries as of December 31, 2000 and 1999, and for each of the three years in the period ended December 31, 2000, which reports are incorporated by reference or included in the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2000. We also consent to the reference to us under the heading "Experts" in such Registration Statement.

PricewaterhouseCoopers LLP
Pittsburgh, Pennsylvania
April 16, 2001

/s/ Henry B. Schacht

Henry B. Schacht

April 2, 2001

/s/ Franklin A. Thomas

Franklin A. Thomas

April 2, 2001

/s/ Marina v.N. Whitman

Marina v.N. Whitman

April 2, 2001

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that the undersigned Director and Chairman of the Board and Chief Executive Officer of Alcoa Inc. (the "Company") hereby constitutes and appoints RICHARD B. KELSON, WILLIAM B. PLUMMER, TIMOTHY S. MOCK AND DONNA C. DABNEY, or any of them, his true and lawful attorneys and agents to do any and all acts and things and to execute any and all instruments which said attorneys and agents, or any of them, may deem necessary or advisable or may be required to enable the Company to comply with the Securities Act of 1933, as amended (the "Act"), and any rules, regulations or requirements of the Securities and Exchange Commission in respect thereof, in connection with the registration under the Act of up to \$3 billion of securities, including, but not limited to, debt, convertible, common, preferred or hybrid securities of the Company, warrants to purchase debt securities of the Company, or guarantees by the Company of debt or convertible preferred securities of an affiliate of the Company (including without limitation the Alcoa Trust I), including specifically, but without limiting the generality of the foregoing, power and authority to sign the name of the undersigned Director and Chairman of the Board and Chief Executive Officer of the Company in the capacity of Principal Executive Officer and/or Director thereof to any registration statement to be filed with the Securities and Exchange Commission in respect of said securities, to any and all pre-effective amendments, post-effective amendments and supplements to any such registration statement, and to any instruments or documents filed as part of or in connection with any such registration statement or pre-effective amendments, post-effective amendments or supplements thereto; and the undersigned hereby ratifies and confirms all that said attorneys and agents, or any of them, shall do or cause to be done by virtue thereof.

IN WITNESS WHEREOF, the undersigned has subscribed these presents on the date set opposite his name below.

/s/ Alain J. P. Belda

April 3, 2001

Alain J. P. Belda
Director and
Chairman of the Board and
Chief Executive Officer

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that the undersigned Executive Vice President and Chief Financial Officer of Alcoa Inc. (the "Company") hereby constitutes and appoints WILLIAM B. PLUMMER, TIMOTHY S. MOCK AND DONNA C. DABNEY, or any of them, his true and lawful attorneys and agents to do any and all acts and things and to execute any and all instruments which said attorneys and agents, or any of them, may deem necessary or advisable or may be required to enable the Company to comply with the Securities Act of 1933, as amended (the "Act"), and any rules, regulations or requirements of the Securities and Exchange Commission in respect thereof, in connection with the registration under the Act of up to \$3 billion of securities, including, but not limited to, debt, convertible, common, preferred or hybrid securities of the Company, warrants to purchase debt securities of the Company, or guarantees by the Company of debt or convertible preferred securities of an affiliate of the Company (including without limitation the Alcoa Trust I), including specifically, but without limiting the generality of the foregoing, power and authority to sign the name of the undersigned Executive Vice President and Chief Financial Officer of the Company in the capacity of Principal Financial Officer thereof to any registration statement to be filed with the Securities and Exchange Commission in respect of said securities, to any and all pre-effective amendments, post-effective amendments and supplements to any such registration statement, and to any instruments or documents filed as part of or in connection with any such registration statement or pre-effective amendments, post-effective amendments or supplements thereto; and the undersigned hereby ratifies and confirms all that said attorneys and agents, or any of them, shall do or cause to be done by virtue thereof.

IN WITNESS WHEREOF, the undersigned has subscribed these presents on the date set opposite his name below.

/s/ Richard B. Kelson

April 3, 2001

Richard B. Kelson
Executive Vice President and
Chief Financial Officer

POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that the undersigned Vice President and Controller of Alcoa Inc. (the "Company") hereby constitutes and appoints RICHARD B. KELSON, WILLIAM B. PLUMMER AND DONNA C. DABNEY, or any of them, his true and lawful attorneys and agents to do any and all acts and things and to execute any and all instruments which said attorneys and agents, or any of them, may deem necessary or advisable or may be required to enable the Company to comply with the Securities Act of 1933, as amended (the "Act"), and any rules, regulations or requirements of the Securities and Exchange Commission in respect thereof, in connection with the registration under the Act of up to \$3 billion of securities, including, but not limited to, debt, convertible, common, preferred or hybrid securities of the Company, warrants to purchase debt securities of the Company, or guarantees by the Company of debt or convertible preferred securities of an affiliate of the Company (including without limitation the Alcoa Trust I), including specifically, but without limiting the generality of the foregoing, power and authority to sign the name of the undersigned Vice President and Controller of the Company in the capacity of Principal Accounting Officer thereof to any registration statement to be filed with the Securities and Exchange Commission in respect of said securities, to any and all pre-effective amendments, post-effective amendments and supplements to any such registration statement, and to any instruments or documents filed as part of or in connection with any such registration statement or pre-effective amendments, post-effective amendments or supplements thereto; and the undersigned hereby ratifies and confirms all that said attorneys and agents, or any of them, shall do or cause to be done by virtue thereof.

IN WITNESS WHEREOF, the undersigned has subscribed these presents on the date set opposite his name below.

/s/ Timothy S. Mock

April 3, 2001

Timothy S. Mock
Vice President and Controller

SECURITIES AND EXCHANGE COMMISSION
Washington, D. C. 20549

FORM T-1

STATEMENT OF ELIGIBILITY
UNDER THE TRUST INDENTURE ACT OF 1939 OF
A CORPORATION DESIGNATED TO ACT AS TRUSTEE

CHECK IF AN APPLICATION TO DETERMINE ELIGIBILITY OF
A TRUSTEE PURSUANT TO SECTION 305(b)(2) _____

CHASE MANHATTAN TRUST COMPANY, NATIONAL ASSOCIATION
(Exact name of trustee as specified in its charter)

(State of incorporation if not a national bank) 29-2933369
(I.R.S. employer identification No.)

One Oxford Centre, Suite 1100
301 Grant Street, Pittsburgh, PA 15219
(Address of principal executive offices) (Zip Code)

William H. McDavid
The Chase Manhattan Bank
General Counsel
270 Park Avenue
New York, New York 10017
Tel: (212) 270-2611
(Name, address and telephone number of agent for service)

ALCOA INC.
(Exact name of obligor as specified in its charter)

Pennsylvania 25-0317820
(State or other jurisdiction of incorporation or organization) (I.R.S. employer identification No.)

ALCOA TRUST I
(Exact name of obligor as specified in its charter)

Delaware 25-6581451
(State or other jurisdiction of incorporation or organization) (I.R.S. employer identification No.)

201 Isabella Street
Pittsburgh, Pennsylvania 15212-5858
(Address of principal executive offices) (Zip Code)

Senior Debt Securities
(Title of the indenture securities)

GENERAL

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 the Currency, Washington, D.C.

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

Yes.

Item 2. Affiliations with the Obligor.

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

None.

No responses are included for Items 3-15 of this Form T-1 because the Obligor is not in default as provided under Item 13.

Item 16. List of Exhibits

List below all exhibits filed as a part of this Statement of Eligibility.

1. Exhibit T1A(a) A copy of the Articles of Association of the Trustee as now in effect.
2. Exhibit T1A(b) A copy of the Certificate of Authority of the Trustee (previously known as New Trust Company, National Association,) to commence business. Also included in Exhibit T1A (b) are letters dated November 24, 1997 from the Comptroller of the Currency authorizing the exercise of fiduciary powers by the Trustee and acknowledging the name change of the Trustee.
3. Exhibit T1A(c) The Authorization of the Trustee to exercise corporate trust powers is contained in Exhibit T1A(b).
4. Exhibit T1B A copy of the By-Laws of the Trustee as now in effect.
5. Exhibit T1C Not applicable
6. Exhibit T1D The Trustee's consent required by Section 321(b) of the Act.
7. Exhibit T1E A copy of the latest report of condition of the Trustee, published pursuant to law or the requirements of its supervising or examining authority.
8. Exhibit T1F Not applicable
9. Exhibit T1G Not applicable

SIGNATURE

Pursuant to the requirements of the Trust Indenture Act of 1939 the Trustee, Chase Manhattan Trust Company, 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 Pittsburgh and Pennsylvania, on the 9th day of April, 2001.

CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

By /s/ Elaine D. Renn

Elaine D. Renn
Vice President

[LOGO] CHASE

CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

CHARTER NO. 23548

ARTICLES OF ASSOCIATION

For the purpose of organizing an Association to perform any lawful activities of a national bank, the undersigned do enter into the following Articles of Association:

FIRST. The title of this Association shall be Chase Manhattan Trust Company, National Association (the "Association").

SECOND. The main office of the Association shall be in the City of Pittsburgh, County of Allegheny, Commonwealth of Pennsylvania. The business of the Association shall be limited to the fiduciary powers and the support of activities incidental to the exercise of those powers. The Association will obtain the prior written approval of the Office of the Comptroller of the Currency before amending these Articles of Association to expand the scope of its activities and services.

THIRD. The board of directors of this Association shall consist of not less than five nor more than twenty-five persons, the exact number 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, during the full term of his directorship, 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 of not less than \$1,000. Any vacancy in the board of directors may be filled by action of the shareholders or a majority of the remaining directors.

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.

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 therefore in the by-laws, 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 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. Advance notice of the meeting may be duly waived by the sole shareholder in accordance with 12 C.F.R. 7.2001.

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 him or her, when notice of the meeting stating that the purpose or one of the purposes is to remove him or her is provided, if there is a failure to fulfill one of the affirmative requirements for qualification, or for cause.

FIFTH. The authorized amount of capital stock of this Association shall be five million dollars (\$5,000,000), divided into fifty thousand (50,000) 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 to 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.

Unless otherwise specified in the 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.

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.

SIXTH. The board of directors may appoint one of its members President of this Association, and one of its members Chairperson of the board or two of its members as Co-Chairpersons 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 by-laws.

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 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.
- (8) Manage and administer the business and affairs of the Association.
- (9) Adopt initial by-laws, not inconsistent with law or the Articles of Association, for managing the business and regulating the affairs of the Association.
- (10) Amend or repeal by-laws, 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 location permitted under applicable law, without the approval of the shareholders, and 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 the approval of the shareholders subject to approval by the Office of 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. 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.

TREASURY DEPARTMENT

Comptroller of the Currency
[LOGO]
Washington D.C.

OF THE UNITED STATES

Whereas, satisfactory evidence has been presented to the Comptroller of the Currency that New Trust Company National Association located in Pittsburgh State of Pennsylvania has complied with all provisions of the statutes of the United States required to be complied with before being authorized to commence the business of banking as a National Banking Association;

Now, therefore, I hereby certify that the above named association is authorized to commence the business of banking as a National Banking Association.

SEAL

Charter No.
23548

In Testimony whereof, witness my
signature and seal of
office this 24/th/ days of November
1997

[ILLEGIBLE]^^
Deputy Comptroller of the Currency

Comptroller of the Currency
Administrator of National Banks

Exhibit T1A (b)

November District
11 14 Avenue of the America's Suite 3900
New York, New York 10036

November 24, 1997

Joseph R. Bielawa
Vice President and Assistant General Counsel
The Chase Manhattan Bank
270 Park Avenue, 39th Floor
New York, New York 10017

Re: Change in Corporate Title
New Trust Company, National Association (Bank)
Pittsburgh, Pennsylvania

Dear Mr. Bielawa:

The Office of the Comptroller of the Currency (OCC) has received your submission, concerning the change and amendment to Article First of the above-referenced Bank's Articles of Association. The OCC has amended its records to reflect that effective November 24, 1997, the corporate title of New Trust Company, National Association, Charter Number 23548, was changed to "Chase Manhattan Trust Company, National Association."

You are reminded that the OCC does not approve national bank name changes nor does it maintain official titles or the retention of alternate titles. The use of other titles or the retention of the rights of any previously title is the responsibility of the Bank's board of directors. Legal counsel should be consulted to determine whether or not the new title, or any previously used title, could be challenged by competing institutions under the provisions of federal state law.

A copy of the amended Article as accepted for filing is enclosed for the Bank's records.

Very truly yours

/s/ Linda Leickel

Linda Leickel
Senior Licensing Analyst
Charter No.:23548
Control No.: 97 NE 04 010 w/97 NE 01 022

Comptroller of the Currency
Administrator of National Banks

Exhibit T1A (b)

November District
1114 Avenue of the America's Suite 3900
New York, New York 10036

Licensing
Telephone (212) 790-4055
Fax: (212) 790-4098

November 24, 1997

Mr. Daryl J. Zupan
President and CEO
New Trust Company, National Association
c/o Mellon Bank, N.A., Corporate Trust
Two Mellon Bank Center, Suite 325
Pittsburgh, Pennsylvania 15259

Re: Charter for a National Trust Bank, New Trust Company, National Association.
Pittsburgh, Pennsylvania
ACN 97 NE 01 0022

Dear Mr. Zupan:

The Comptroller of the Currency (OCC) has found that you have met all conditions imposed by the OCC and completed all steps necessary to commence the business of banking. Your charter certificate is enclosed. You are authorized to commence business on November 24, 1997.

This letter also constitutes OCC authorization to exercise fiduciary powers.

You are reminded that several of the standard conditions contained in the preliminary approval letter dated October 23, 1997 will continue to apply once the bank opens and by opening, you agree to subject your association to these conditions of operations. Some of the conditions bear reiteration here:

1. Regardless of the association's FDIC insurance status, the association is subject to the Change in Bank Control act (12 U.S.C. 1817(j)) by virtue of its national bank charter. Please refer to item 4 in the list of standard conditions sent with the preliminary approval letter.
2. The board of directors is responsible for regular review and update of policies and procedures and for assuring ongoing compliance with them. This includes maintaining an internal control system that ensures compliance with the currency reporting and record keeping requirements of the Bank Secrecy Act (BSA). The board is expected to train its personnel in BSA procedures and designate one person or a group to monitor day-to-day compliance.

Mr. Daryl J. Zupan
Page two

3. The bank will not engage in full commercial powers authorized to national banks without the OCC's prior approval

Following the commencement of operations, bank management is urged to become familiar with the requirements of the Securities Exchange Act of 1934 and Part 11 of the Comptroller's regulations relative to the registration of the bank's equity securities and related periodic reports. These requirements will be applicable to your bank when the number of shareholders of record is maintained at 500 or more. Such registration may be subsequently terminated pursuant to the Act, only when the number of shareholders of record is reduced to fewer than 300.

Should you have any questions regarding the supervision of your bank, please contact the portfolio manager who will be responsible for OCC's ongoing supervisory effort at your institution. You will be notified of the name and number of the appropriate individual in the near future.

Sincerely,

/s/ Micheal G. Tiscia

Micheal G. Tiscia
Licensing Manager

Enclosure

cc: Official File
Field File

[LOGO] CHASE
CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

BY-LAWS

Article I. Meetings of Shareholders

Section 1.1. Annual Meeting. The regular 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, or such other place as the board may designate, and at such time in each year as may be designated by the board of directors. Unless otherwise provided by law, notice of the meeting may be waived by the Association's sole shareholder in accordance with 12 C.F.R. (S) 7.2001. 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, or, if the directors fail to fix the date, by shareholders representing two thirds of the shares issued and outstanding.

Section 1.2. Special Meetings. Except as otherwise specifically provided by statute, special meetings of the shareholders may be called for any purpose at any time by a majority of the board of directors or by any one or more shareholders owning, in the aggregate, not less than twenty-five percent of the stock of the Association or by the Chairperson of the board of directors or the President. Unless otherwise provided by law, advance notice of a special meeting may be waived by the Association's Sole Shareholder in accordance with 12 C.F.R. (S) 7.2001.

Section 1.3. 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 to 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 and to the Comptroller of the Currency not later than the close of business on the seventh (7th) 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 upon his/her instructions, the vote tellers may disregard all votes cast for each such nominee.

Section 1.4. 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 rubber stamped facsimile signatures may be used and unexecuted proxies may be counted upon receipt of a confirming telegram from the shareholder. Proxies meeting above requirements submitted at any time during a meeting shall be accepted.

Section 1.5 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 Section 10.2, 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 Section 10.2. Any action required or permitted to be taken by the shareholders may be taken without a meeting by unanimous written consent of the shareholders to a resolution authorizing the action. The resolution and the written consent shall be filed with the minutes of the proceedings of the shareholders.

Article II. Directors

Section 2.1. Board of Directors. The board of directors ("board") 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.

Section 2.2. Number. The board shall consist of not less than five nor more than twenty-five persons, the exact number within such minimum and maximum limits to be fixed and determined from time to time by resolution of a majority of the full board or by resolution of a majority of the shareholders at any meeting thereof; provided, however, that a majority of the full board may not

increase the number of directors to a number which: (1) exceeds by more than two the number of directors last elected by shareholders where such number was 15 or less; and (2) exceeds by more than four the number of directors last elected by shareholders where such number was 16 or more, but in no event shall the number of directors exceed 25.

Section 2.3. Organization Meeting. The Secretary 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 to organize the new board 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 2.4. Regular Meetings. The time and location of regular meetings of the board shall be set by the board. Such meetings may be held without notice. Any business may be transacted at any regular meeting. The board may adopt any procedures for the notice and conduct of any meetings as are not prohibited by law.

Section 2.5. Special Meetings. Special meetings of the board may be called at the request of the Chairperson or Co-Chairperson of the board, the President, or three or more directors. Each member of the board shall be given notice stating the time and place, by telegram, telephone, letter or in person, of each such special meeting at least one day prior to such meeting. Any business may be transacted at any special meeting.

Section 2.6. Action by the Board. Except as otherwise provided by law, corporate action to be taken by the board shall mean such action at a meeting of the board. Any action required or permitted to be taken by the board or any committee of the board may be taken without a meeting if all members of the board or the committee consent in writing to a resolution authorizing the action. The resolution and the written consents thereto shall be filed with the minutes of the proceedings of the board or committee. Any one or more members of the board or any committee may participate in a meeting of the board or committee 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 by such means shall constitute presence in person at such meeting.

Section 2.7. Waiver of Notice. Notice of a special meeting need not be given to any director who submits a signed waiver of notice, whether before or after the meeting, or who attends the meeting without protesting, prior thereto or at its commencement, the lack of notice to him or her.

Section 2.8. Quorum and Manner of Acting. Except as otherwise required by law, the Articles of Association or these by-laws, a majority of the directors shall constitute a quorum for the transaction of any business at any meeting of the board and the act of a majority of the directors present and voting at a meeting at which a quorum is present shall be the act of the board. In the absence of a quorum, a majority of the directors present may adjourn any meeting, from time to time, until a quorum is present and no notice of any adjourned meeting need be given. At any such adjourned meeting at which a quorum is present, any business may be transacted which might have been transacted at the meeting as originally called.

Section 2.9. Vacancies. In the event a majority of the full board increases the number of directors to a number which exceeds the number of directors last elected by shareholders, as permitted by Section 2.2, directors may be appointed to fill the resulting vacancies by vote of such majority of the full board. In the event of a vacancy in the board for any other cause, a director may be appointed to fill such vacancy by vote of a majority of the remaining directors then in office.

Section 2.10. Removal of Directors. The vacancy created by the removal of a director pursuant to this Section may be filled by the board in accordance with

Section 2.9 of these by-laws or by the shareholders.

Article III. Committees

Section 3.1. Executive Committee. There may be an executive committee consisting of the Chairperson or Co-Chairperson of the board and not less than two other directors appointed by the board annually or more often. Subject to the limitations in Section 3.4(g) of these by-laws, the executive committee shall have the maximum authority permitted by law.

Section 3.2. Audit Committee. There may be an audit committee composed of not less than two directors, exclusive of any active officers, appointed by the board annually or more often, whose duty it shall be to make an examination at least once during each calendar year and within fifteen months of the last examination into the affairs of the Association, or cause continuous suitable examinations to be made, by auditors responsible only to the board, and to report the results of any such examinations in writing to the board from time to time. Such examinations shall include audits of the fiduciary business of the Association as may be required by law or regulation.

Section 3.3. Other Committees. The board may appoint, from time to time, other committees of one or more persons, for such purposes and with such powers as the board may determine.

Section 3.4. General. (a) Each committee shall elect a Chairperson from among the members thereof and shall also designate a Secretary of the committee, who shall keep a record of its proceedings.

(b) Vacancies occurring from time to time in the membership of any committee shall be filled by the board for the unexpired term of the member whose departure causes such vacancy. The board may designate one or more alternate members of any committee, who may replace any absent member or members at any meeting of such committee.

(c) Each committee shall adopt its own rules of procedure and shall meet at such stated times as it may, by resolution, appoint. It shall also meet whenever called together by its Chairperson or the Chairperson of the board.

(d) No notice of regular meetings of any committee need be given. Notice of every special meeting shall be given either by mailing such notice to each member of such committee at his or her address, as the same appears in the records of the Association, at least two days before the day of such meeting, or by notifying each member on or before the day of such meeting by telephone or by personal notice, or by leaving a written notice at his or her residence or place of business on or before the day of such meeting. Waiver of notice in writing of any meeting, whether prior or subsequent to such meeting, or attendance at such meeting, shall be equivalent to notice of such meeting. Unless otherwise indicated in the notice thereof, any and all business may be transacted at any special meeting.

(e) All committees shall, with respect to all matters, be subject to the authority and direction of the board and shall report to it when required.

(f) Unless otherwise required by law, the Articles of Association or these by-laws, a quorum at any meeting of any committee shall be one-third of the full membership and present shall be the act of the committee.

(g) No committee shall have authority to take any action which is expressly required by law or regulation to be taken at a meeting of the board or by a specified proportion of directors.

Article IV. Officers and Employees

Section 4.1. Chairperson of the Board. The board shall appoint one of its members to be the Chairperson of the board, or two persons to serve as Co-Chairperson of the board to serve at its pleasure. Such person shall preside at all meetings of the board. The Chairperson or Co-Chairpersons of the board shall supervise the carrying out of the policies adopted or approved by the board; shall have general executive powers, as well as the specific powers conferred by these by-laws; 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.

Section 4.2. President. The board may appoint one of its members to be the President of the Association. In the absence of the Chairperson or Co-Chairpersons, the President shall preside at any meeting of the board. 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 by-laws. 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.

Section 4.3. Vice President. The board may appoint one or more Vice Presidents. Each Vice President shall have such powers and duties as may be assigned by the board.

Section 4.4. Secretary. The board shall appoint a Secretary, Cashier, or other designated officer who shall be Secretary of the board and of the Association, and shall keep accurate minutes of all meetings. The Secretary shall attend to the giving of all notices required by these by-laws; 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 Cashier, or imposed by these by-laws; and shall also perform such other duties as may be assigned from time to time, by the board.

Section 4.5. Other Officers. The board may appoint one or more Assistant Vice Presidents, one or more Trust Officers, one or more Assistant Secretaries, one or more Assistant Cashiers, 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 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, the Chairperson or Co-Chairpersons of the board, or the President. The board may authorize an officer to appoint one or more officers or assistant officers.

Section 4.6. 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 5.1. Trust Committee. There shall be a Trust Committee of this Association composed of four or more members, who shall be capable and experienced officers or directors of the Association. The Committee is charged with the responsibility for the investment, retention, or disposition of assets held in accounts with respect to which the Association has investment authority; for the review of the assets of accounts for which the Association has investment authority promptly after the acceptance of such an account and at least once during every calendar year thereafter to determine the advisability of retaining or disposing of such assets; for the determination of the manner in which proxies received for accounts for which the Association has responsibility for the voting of proxies shall be voted; for the determination of all substantial questions involving discretionary authority of the Association of a non-investment nature, including, but not limited to, distribution of principal and/or income in respect of any account; for providing advice as to the investment, retention, or disposition of assets in investment advisory accounts maintained by the Association; for the making of such reports as this board shall require; and for such other responsibilities as may be assigned by this board. The Trust Committee, in discharging its aforementioned responsibilities, may authorize officers of the Association to exercise such powers and under such conditions as the Committee may from time to time prescribe.

Section 5.2. Trust Investments. Funds held in a fiduciary capacity shall be invested according to the instrument establishing the fiduciary relationship and local law. Where such instrument does not specify the character and class of investments to be made and does not vest in the Association a discretion in the matter, funds held pursuant to such instrument shall be invested in investments in which corporate fiduciaries may invest under applicable law.

Section 5.3. Trust Audit Committee. The board shall appoint a committee of at least two directors, exclusive of any active officer of the association, 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.

Section 5.4. 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.

Article VI. Stock and Stock Certificates

Section 6.1. 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 his or her shares, succeed to all rights of the prior holder of such shares. The board 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 6.2. Stock Certificates. Certificates of stock shall bear the signature of the Chairperson or Co-Chairpersons of the board or President (which may be engraved, printed or impressed), and shall be signed manually or by facsimile process by the Secretary, Assistant Secretary, Cashier, Assistant Cashier, or any other officer appointed by the board 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. In case any such officer who has signed or whose facsimile signature has been placed upon such certificate shall have ceased to be such before such certificate is issued, it may be issued by the Association with the same effect as if such officer had not ceased to be such at the time of its issue. The corporate seal may be a facsimile, engraved or printed.

Article VII. Corporate Seal

Section 7.1. Corporate Seal. The Chairperson, the President, the Cashier, the Secretary or any Assistant Cashier or Assistant Secretary, or other officer thereunto designated by the board, shall have authority to affix the corporate seal to any document requiring such seal, and to attest the same. Such seal shall be substantially in the following form: A circle, with the words "Chase Manhattan Trust Company, National Association" within such circle.

Article VIII. Miscellaneous Provisions

Section 8.1. Fiscal Year. The fiscal year of the Association shall be the calendar year.

Section 8.2. 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 the Chairperson or Co-Chairpersons of the board, or the President, or any Vice Chairperson, or any Managing Director, or any Vice President, or any Assistant Vice President, or the Chief Financial Officer, or the Controller, or the Secretary, or the Cashier, or, if in connection with exercise of fiduciary powers of the Association, by any of those officers or by any Trust Officer. 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 may from time to time direct. The provisions of this Section 8.2 are supplementary to any other provision of these by-laws.

Section 8.3. Records. The Articles of Association, the by-laws and the proceedings of all meetings of the shareholders, the board, and standing committees of the board, shall be recorded in appropriate minute books provided for that purpose. The minutes of each meeting shall be signed by the Secretary, Cashier or other officer appointed to act as Secretary of the meeting.

Section 8.4. Corporate Governance Procedures. To the extent not inconsistent with applicable Federal banking law, bank safety and soundness or these by-laws, the corporate governance procedures found in the Delaware General Corporation Law shall be followed by the Association.

Article IX. Indemnification

Section 9.1. Right to Indemnification. Each person who was or is made a party or is threatened to be made a party to or is otherwise involved in any action, suit or proceeding, whether civil, criminal, administrative or investigative (hereinafter a "proceeding"), by reason of the fact that he or she is or was a director or an officer of the Association or is or was serving at the request of the Association as a director, officer, employee or agent of another corporation or of a partnership, joint venture, trust or other enterprise, including service with respect to an employee benefit plan (hereinafter an "indemnatee"), whether the basis of such proceeding is alleged action in an official capacity as a director, officer, employee or agent or in any other capacity while serving as a director, officer, employee or agent, shall be indemnified and held harmless by the Association to the fullest extent authorized by the Delaware General Corporation Law, as the same exists or may hereafter be amended (but, in the case of any such amendment, only to the extent that such amendment permits the Association to provide broader indemnification rights than such law permitted the Association to provide prior to such amendment), against all expense, liability and loss (including attorneys' fees, judgments, fines, ERISA excise taxes or penalties and amounts paid in settlement) reasonably incurred or suffered by such indemnatee in connection therewith; provided, however, that, except as provided in Section 9.3 of these by-laws with respect to proceedings to enforce rights to indemnification, the Association shall indemnify any such indemnatee in connection with a proceeding (or part thereof) initiated by such indemnatee only if such proceeding (or part thereof) was authorized by the board.

Section 9.2. Right to Advancement of Expenses. The right to indemnification conferred in Section 9.1 of these by-laws shall include the right to be paid by the Association the expenses (including attorney's fees) incurred in defending any such proceeding in advance of its final disposition (hereinafter an "advancement of expenses"); provided, however, that, if the Delaware General Corporation Law requires, an advancement of expenses incurred by an indemnatee in his or her capacity as a director or officer (and not in any other capacity in which service was or is rendered by such indemnatee, including, without limitation, service to an employee benefit plan) shall be made only upon

delivery to the Association of an undertaking (hereinafter an "undertaking"), by or on behalf of such indemnitee, to repay all amounts so advanced if it shall ultimately be determined by final judicial decision from which there is no further right to appeal (hereinafter a "final adjudication") that such indemnitee is not entitled to be indemnified for such expenses under this Section 9.2 or otherwise. The rights to

indemnification and to the advancement of expenses conferred in Sections 9.1 and 9.2 of these by-laws shall be contract rights and such rights shall continue as to an indemnitee who has ceased to be a director, officer, employee or agent and shall inure to the benefit of the indemnities heirs, executors and administrators.

Section 9.3. Right of Indemnitee to Bring Suit. If a claim under Section 9.1 or 9.2 of these by-laws is not paid in full by the Association within sixty (60) days after a written claim has been received by the Association except in the case of a claim for an advancement of expenses, in which case the applicable period shall be twenty (20) days, the indemnitee may at any time thereafter bring suit against the Association to recover the unpaid amount of the claim. If successful in whole or in part in any such suit, or in a suit brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the indemnitee shall be entitled to be paid also the expense of prosecuting or defending such suit. In (1) any suit brought by the indemnitee to enforce a right to indemnification hereunder (but not in a suit brought by the indemnitee to enforce a right to an advancement of expenses) it shall be a defense that, and (2) any suit brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the Association shall be entitled to recover such expenses upon a final adjudication that, the indemnitee has not met any applicable standard for indemnification set forth in the Delaware General Corporation Law. Neither the failure of the Association (including the board, the Association's independent legal counsel, or its shareholders) to have made a determination prior to the commencement of such suit that indemnification of the indemnitee is proper in the circumstances because the indemnitee has met the applicable standard of conduct set forth in the Delaware General Corporation Law, nor an actual determination by the Association (including the board, the Association's independent legal counsel, or its shareholders) that the indemnitee has not met such applicable standard of conduct, shall create a presumption that the indemnitee has not met the applicable standard of conduct or, in the case of such a suit brought by the indemnitee, be a defense to such suit. In any suit brought by the indemnitee to enforce a right to indemnification or to an advancement of expenses hereunder, or brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the burden of proving that the indemnitee is not entitled to be indemnified, or to such advancement of expenses, under this Article IX or otherwise shall be on the Association.

Section 9.4. Non-Exclusivity of Rights. The rights to indemnification and to the advancement of expenses conferred in this Article IX shall not be exclusive of any other right which any person may have or hereafter acquire under any statute, the Association's Articles of Association, by-laws, agreement, vote of shareholders or disinterested directors or otherwise.

Section 9.5. Insurance. The Association may maintain insurance, at its expense, to protect itself and any director, officer, employee or agent of the Association or another corporation, partnership, joint venture, trust or other enterprise against any expense, liability or loss, whether or not the Association would have the power to indemnify such person against such expense, liability or loss under the Delaware General Corporation Law.

Section 9.6. Indemnification of Employees and Agents of the Association. The Association may, to the extent authorized from time to time by the board, grant rights to indemnification and to the advancement of expenses to any employee or agent of the Association to the fullest extent of the provisions of this Article IX with respect to the indemnification and advancement of expenses of directors and officers of the Association.

Article X. By-laws

Section 10.1. Inspection. A copy of the by-laws, 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 10.2. Amendments. The by-laws may be amended, altered or repealed, at any regular meeting of the board by a vote of a majority of the total number of the directors except as provided below. The Association's shareholders may amend or repeal the by-laws even though the by-laws may be amended or repealed by its board.

EXHIBIT T1D

Consent for Records of Governmental Agencies
to be Made Available to the Commission

The undersigned, Chase Manhattan Trust Company, National Association, Pittsburgh, Pennsylvania pursuant to Section 321(b) of The Trust Indenture Act of 1939, hereby authorizes the Board of Governors of the Federal Reserve System, the Federal Reserve Banks, the Treasury Department, the Comptroller of the Currency and the Federal Deposit Insurance Corporation, under such conditions as they may prescribe, to make available to the Commission such reports, records or other information as they may have available with respect to the undersigned as a prospective trustee under an indenture to be qualified under the aforesaid Trustee Indenture Act of 1939 and to make through their examiners or other employees for the use of the Commission, examinations of the undersigned prospective Trustee.

The undersigned also, pursuant to Section 321(b) of said Trust Indenture Act of 1939, consents that reports of examination by the Federal, State, Territorial or District authorities may be furnished by such authorities to the Commission upon request therefor.

Dated this 11th day of December , 1998.

Chase Manhattan Trust Company,
National Association

By: Timothy J. Vara

Timothy J. Vara
Vice President

Chase Manhattan Trust Company, National Association
Statement of Condition

December 31, 2000

	(\$000)

Assets	
Cash and Due From Banks	\$ 17,999
Securities Available for Sale	4,857
Premises and Equipment	3,035
Accounts Receivable	8,764
Intangible Assets	177,440

Total Assets	\$212,095
	=====
Liabilities	
Sundry Liabilities and Accrued Expenses	\$ 11,303

Stockholder's Equity	
Common Stock	\$ 5,000
Surplus	179,892
Retained Earnings	15,900

Total Stockholder's Equity	\$200,792

Total Liabilities and Stockholder's Equity	\$212,095
	=====

SECURITIES AND EXCHANGE COMMISSION
Washington, D. C. 20549

FORM T-1

STATEMENT OF ELIGIBILITY
UNDER THE TRUST INDENTURE ACT OF 1939 OF
A CORPORATION DESIGNATED TO ACT AS TRUSTEE

CHECK IF AN APPLICATION TO DETERMINE ELIGIBILITY OF
A TRUSTEE PURSUANT TO SECTION 305(b)(2) _____

CHASE MANHATTAN TRUST COMPANY, NATIONAL ASSOCIATION
(Exact name of trustee as specified in its charter)

(State of incorporation if not a national bank) 29-2933369
(I.R.S. employer identification No.)

One Oxford Centre, Suite 1100
301 Grant Street, Pittsburgh, PA 15219
(Address of principal executive offices) (Zip Code)

William H. McDavid
The Chase Manhattan Bank
General Counsel
270 Park Avenue
New York, New York 10017
Tel: (212) 270-2611
(Name, address and telephone number of agent for service)

ALCOA INC.
(Exact name of obligor as specified in its charter)

Pennsylvania 25-0317820
(State or other jurisdiction of incorporation or organization) (I.R.S. employer identification No.)

ALCOA TRUST I
(Exact name of obligor as specified in its charter)

Delaware 25-6581451
(State or other jurisdiction of incorporation or organization) (I.R.S. employer identification No.)

201 Isabella Street
Pittsburgh, Pennsylvania 15212-5858
(Address of principal executive offices) (Zip Code)

Subordinated Debt Securities
(Title of the indenture securities)

GENERAL

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 the Currency, Washington, D.C.

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

Yes.

Item 2. Affiliations with the Obligor.

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

None.

No responses are included for Items 3-15 of this Form T-1 because the Obligor is not in default as provided under Item 13.

Item 16. List of Exhibits

List below all exhibits filed as a part of this Statement of Eligibility.

1. Exhibit T1A(a) A copy of the Articles of Association of the Trustee as now in effect.
2. Exhibit T1A(b) A copy of the Certificate of Authority of the Trustee (previously known as New Trust Company, National Association,) to commence business. Also included in Exhibit T1A (b) are letters dated November 24, 1997 from the Comptroller of the Currency authorizing the exercise of fiduciary powers by the Trustee and acknowledging the name change of the Trustee.
3. Exhibit T1A(c) The Authorization of the Trustee to exercise corporate trust powers is contained in Exhibit T1A(b).
4. Exhibit T1B A copy of the By-Laws of the Trustee as now in effect.
5. Exhibit T1C Not applicable
6. Exhibit T1D The Trustee's consent required by Section 321(b) of the Act.
7. Exhibit T1E A copy of the latest report of condition of the Trustee, published pursuant to law or the requirements of its supervising or examining authority.
8. Exhibit T1F Not applicable
9. Exhibit T1G Not applicable

SIGNATURE

Pursuant to the requirements of the Trust Indenture Act of 1939 the Trustee, Chase Manhattan Trust Company, 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 Pittsburgh and Pennsylvania, on the 9th day of April, 2001.

CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

By /s/ Elaine D. Renn

Elaine D. Renn
Vice President

[LOGO] CHASE

CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

CHARTER NO. 23548

ARTICLES OF ASSOCIATION

For the purpose of organizing an Association to perform any lawful activities of a national bank, the undersigned do enter into the following Articles of Association:

FIRST. The title of this Association shall be Chase Manhattan Trust Company, National Association (the "Association").

SECOND. The main office of the Association shall be in the City of Pittsburgh, County of Allegheny, Commonwealth of Pennsylvania. The business of the Association shall be limited to the fiduciary powers and the support of activities incidental to the exercise of those powers. The Association will obtain the prior written approval of the Office of the Comptroller of the Currency before amending these Articles of Association to expand the scope of its activities and services.

THIRD. The board of directors of this Association shall consist of not less than five nor more than twenty-five persons, the exact number 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, during the full term of his directorship, 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 of not less than \$1,000. Any vacancy in the board of directors may be filled by action of the shareholders or a majority of the remaining directors.

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.

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 therefore in the by-laws, 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 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. Advance notice of the meeting may be duly waived by the sole shareholder in accordance with 12 C.F.R. 7.2001.

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 him or her, when notice of the meeting stating that the purpose or one of the purposes is to remove him or her is provided, if there is a failure to fulfill one of the affirmative requirements for qualification, or for cause.

FIFTH. The authorized amount of capital stock of this Association shall be five million dollars (\$5,000,000), divided into fifty thousand (50,000) 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 to 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.

Unless otherwise specified in the 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.

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.

SIXTH. The board of directors may appoint one of its members President of this Association, and one of its members Chairperson of the board or two of its members as Co-Chairpersons 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 by-laws.

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 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.
- (8) Manage and administer the business and affairs of the Association.
- (9) Adopt initial by-laws, not inconsistent with law or the Articles of Association, for managing the business and regulating the affairs of the Association.
- (10) Amend or repeal by-laws, 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 location permitted under applicable law, without the approval of the shareholders, and 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 the approval of the shareholders subject to approval by the Office of 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. 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.

TREASURY DEPARTMENT Comptroller of the Currency
 [PICTURE] OF THE UNITED STATES
 Washington, D.C.

Whereas, satisfactory evidence has been presented to the Comptroller of the Currency that New Trust Company National Association located in Pittsburgh State of Pennsylvania has complied with all provisions of the statutes of the United States required to be complied with before being authorized to commence the business of banking as a National Banking Association;

Now, therefore, I hereby certify that the above named association is authorized to commence the business of banking as a National Banking Association.

SEAL

Charter No.
23548

In Testimony whereof, witness my
signature and seal of
office this 24/th/ days of November
1997

/s/ [ILLEGIBLE]^^
Deputy Comptroller of the Currency

Comptroller of the Currency
Administrator of National Banks

Exhibit T1A (b)

November District
11 14 Avenue of the America's Suite 3900
New York, New York 10036

November 24, 1997

Joseph R. Bielawa
Vice President and Assistant General Counsel
The Chase Manhattan Bank
270 Park Avenue, 39/th/ Floor
New York, New York 10017

Re: Change in Corporate Title
New Trust Company, National Association (Bank)
Pittsburgh, Pennsylvania

Dear Mr. Bielawa:

The Office of the Comptroller of the Currency (OCC) has received your submission, concerning the change and amendment to Article First of the above-referenced Bank's Articles of Association. The OCC has amended its records to reflect that effective November 24, 1997, the corporate title of New Trust Company, National Association, Charter Number 23548, was changed to "Chase Manhattan Trust Company, National Association."

You are reminded that the OCC does not approve national bank name changes nor does it maintain official titles or the retention of alternate titles. The use of other titles or the retention of the rights of any previously title is the responsibility of the Bank's board of directors. Legal counsel should be consulted to determine whether or not the new title, or any previously used title, could be challenged by competing institutions under the provisions of federal state law.

A copy of the amended Article as accepted for filing is enclosed for the Bank's records.

Very truly yours

/s/ Linda Leickel

Linda Leickel
Senior Licensing Analyst
Charter No.:23548
Control No.: 97 NE 04 010 w/97 NE 01 022

Comptroller of the Currency
Administrator of National Banks

Exhibit T1A (b)

November District
1114 Avenue of the America's Suite 3900
New York, New York 10036

Licensing
Telephone (212) 790-4055
Fax: (212) 790-4098

November 24, 1997

Mr. Daryl J. Zupan
President and CEO
New Trust Company, National Association
c/o Mellon Bank, N.A., Corporate Trust
Two Mellon Bank Center, Suite 325
Pittsburgh, Pennsylvania 15259

Re: Charter for a National Trust Bank, New Trust Company, National Association.
Pittsburgh, Pennsylvania
ACN 97 NE 01 0022

Dear Mr. Zupan:

The Comptroller of the Currency (OCC) has found that you have met all conditions imposed by the OCC and completed all steps necessary to commence the business of banking. Your charter certificate is enclosed. You are authorized to commence business on November 24, 1997.

This letter also constitutes OCC authorization to exercise fiduciary powers.

You are reminded that several of the standard conditions contained in the preliminary approval letter dated October 23, 1997 will continue to apply once the bank opens and by opening, you agree to subject your association to these conditions of operations. Some of the conditions bear reiteration here:

1. Regardless of the association's FDIC insurance status, the association is subject to the Change in Bank Control act (12 U.S.C. 1817(j)) by virtue of its national bank charter. Please refer to item 4 in the list of standard conditions sent with the preliminary approval letter.
2. The board of directors is responsible for regular review and update of policies and procedures and for assuring ongoing compliance with them. This includes maintaining an internal control system that ensures compliance with the currency reporting and record keeping requirements of the Bank Secrecy Act (BSA). The board is expected to train its personnel in BSA procedures and designate one person or a group to monitor day-to-day compliance.

Mr. Daryl J. Zupan
Page two

3. The bank will not engage in full commercial powers authorized to national banks without the OCC's prior approval

Following the commencement of operations, bank management is urged to become familiar with the requirements of the Securities Exchange Act of 1934 and Part 11 of the Comptroller's regulations relative to the registration of the bank's equity securities and related periodic reports. These requirements will be applicable to your bank when the number of shareholders of record is maintained at 500 or more. Such registration may be subsequently terminated pursuant to the Act, only when the number of shareholders of record is reduced to fewer than 300.

Should you have any questions regarding the supervision of your bank, please contact the portfolio manager who will be responsible for OCC's ongoing supervisory effort at your institution. You will be notified of the name and number of the appropriate individual in the near future.

Sincerely,

/s/ Micheal G. Tiscia

Micheal G. Tiscia
Licensing Manager

Enclosure

cc: Official File
Field File

[LOGO] CHASE

CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

BY-LAWS

Article I. Meetings of Shareholders

Section 1.1. Annual Meeting. The regular 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, or such other place as the board may designate, and at such time in each year as may be designated by the board of directors. Unless otherwise provided by law, notice of the meeting may be waived by the Association's sole shareholder in accordance with 12 C.F.R. (S) 7.2001. 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, or, if the directors fail to fix the date, by shareholders representing two thirds of the shares issued and outstanding.

Section 1.2. Special Meetings. Except as otherwise specifically provided by statute, special meetings of the shareholders may be called for any purpose at any time by a majority of the board of directors or by any one or more shareholders owning, in the aggregate, not less than twenty-five percent of the stock of the Association or by the Chairperson of the board of directors or the President. Unless otherwise provided by law, advance notice of a special meeting may be waived by the Association's Sole Shareholder in accordance with 12 C.F.R. (S) 7.2001.

Section 1.3. 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 to 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 and to the Comptroller of the Currency not later than the close of business on the seventh (7th) 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 upon his/her instructions, the vote tellers may disregard all votes cast for each such nominee.

Section 1.4. 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 rubber stamped facsimile signatures may be used and unexecuted proxies may be counted upon receipt of a confirming telegram from the shareholder. Proxies meeting above requirements submitted at any time during a meeting shall be accepted.

Section 1.5 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 Section 10.2, 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 Section 10.2. Any action required or permitted to be taken by the shareholders may be taken without a meeting by unanimous written consent of the shareholders to a resolution authorizing the action. The resolution and the written consent shall be filed with the minutes of the proceedings of the shareholders.

Article II. Directors

Section 2.1. Board of Directors. The board of directors ("board") 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.

Section 2.2. Number. The board shall consist of not less than five nor more than twenty-five persons, the exact number within such minimum and maximum limits to be fixed and determined from time to time by resolution of a majority of the full board or by resolution of a majority of the shareholders at any meeting thereof; provided, however, that a majority of the full board may not

increase the number of directors to a number which: (1) exceeds by more than two the number of directors last elected by shareholders where such number was 15 or less; and (2) exceeds by more than four the number of directors last elected by shareholders where such number was 16 or more, but in no event shall the number of directors exceed 25.

Section 2.3. Organization Meeting. The Secretary 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 to organize the new board 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 2.4. Regular Meetings. The time and location of regular meetings of the board shall be set by the board. Such meetings may be held without notice. Any business may be transacted at any regular meeting. The board may adopt any procedures for the notice and conduct of any meetings as are not prohibited by law.

Section 2.5. Special Meetings. Special meetings of the board may be called at the request of the Chairperson or Co-Chairperson of the board, the President, or three or more directors. Each member of the board shall be given notice stating the time and place, by telegram, telephone, letter or in person, of each such special meeting at least one day prior to such meeting. Any business may be transacted at any special meeting.

Section 2.6. Action by the Board. Except as otherwise provided by law, corporate action to be taken by the board shall mean such action at a meeting of the board. Any action required or permitted to be taken by the board or any committee of the board may be taken without a meeting if all members of the board or the committee consent in writing to a resolution authorizing the action. The resolution and the written consents thereto shall be filed with the minutes of the proceedings of the board or committee. Any one or more members of the board or any committee may participate in a meeting of the board or committee 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 by such means shall constitute presence in person at such meeting.

Section 2.7. Waiver of Notice. Notice of a special meeting need not be given to any director who submits a signed waiver of notice, whether before or after the meeting, or who attends the meeting without protesting, prior thereto or at its commencement, the lack of notice to him or her.

Section 2.8. Quorum and Manner of Acting. Except as otherwise required by law, the Articles of Association or these by-laws, a majority of the directors shall constitute a quorum for the transaction of any business at any meeting of the board and the act of a majority of the directors present and voting at a meeting at which a quorum is present shall be the act of the board. In the absence of a quorum, a majority of the directors present may adjourn any meeting, from time to time, until a quorum is present and no notice of any adjourned meeting need be given. At any such adjourned meeting at which a quorum is present, any business may be transacted which might have been transacted at the meeting as originally called.

Section 2.9. Vacancies. In the event a majority of the full board increases the number of directors to a number which exceeds the number of directors last elected by shareholders, as permitted by Section 2.2, directors may be appointed to fill the resulting vacancies by vote of such majority of the full board. In the event of a vacancy in the board for any other cause, a director may be appointed to fill such vacancy by vote of a majority of the remaining directors then in office.

Section 2.10. Removal of Directors. The vacancy created by the removal of a director pursuant to this Section may be filled by the board in accordance with

Section 2.9 of these by-laws or by the shareholders.

Article III. Committees

Section 3.1. Executive Committee. There may be an executive committee consisting of the Chairperson or Co-Chairperson of the board and not less than two other directors appointed by the board annually or more often. Subject to the limitations in Section 3.4(g) of these by-laws, the executive committee shall have the maximum authority permitted by law.

Section 3.2. Audit Committee. There may be an audit committee composed of not less than two directors, exclusive of any active officers, appointed by the board annually or more often, whose duty it shall be to make an examination at least once during each calendar year and within fifteen months of the last examination into the affairs of the Association, or cause continuous suitable examinations to be made, by auditors responsible only to the board, and to report the results of any such examinations in writing to the board from time to time. Such examinations shall include audits of the fiduciary business of the Association as may be required by law or regulation.

Section 3.3. Other Committees. The board may appoint, from time to time, other committees of one or more persons, for such purposes and with such powers as the board may determine.

Section 3.4. General. (a) Each committee shall elect a Chairperson from among the members thereof and shall also designate a Secretary of the committee, who shall keep a record of its proceedings.

(b) Vacancies occurring from time to time in the membership of any committee shall be filled by the board for the unexpired term of the member whose departure causes such vacancy. The board may designate one or more alternate members of any committee, who may replace any absent member or members at any meeting of such committee.

(c) Each committee shall adopt its own rules of procedure and shall meet at such stated times as it may, by resolution, appoint. It shall also meet whenever called together by its Chairperson or the Chairperson of the board.

(d) No notice of regular meetings of any committee need be given. Notice of every special meeting shall be given either by mailing such notice to each member of such committee at his or her address, as the same appears in the records of the Association, at least two days before the day of such meeting, or by notifying each member on or before the day of such meeting by telephone or by personal notice, or by leaving a written notice at his or her residence or place of business on or before the day of such meeting. Waiver of notice in writing of any meeting, whether prior or subsequent to such meeting, or attendance at such meeting, shall be equivalent to notice of such meeting. Unless otherwise indicated in the notice thereof, any and all business may be transacted at any special meeting.

(e) All committees shall, with respect to all matters, be subject to the authority and direction of the board and shall report to it when required.

(f) Unless otherwise required by law, the Articles of Association or these by-laws, a quorum at any meeting of any committee shall be one-third of the full membership and present shall be the act of the committee.

(g) No committee shall have authority to take any action which is expressly required by law or regulation to be taken at a meeting of the board or by a specified proportion of directors.

Article IV. Officers and Employees

Section 4.1. Chairperson of the Board. The board shall appoint one of its members to be the Chairperson of the board, or two persons to serve as Co-Chairperson of the board to serve at its pleasure. Such person shall preside at all meetings of the board. The Chairperson or Co-Chairpersons of the board shall supervise the carrying out of the policies adopted or approved by the board; shall have general executive powers, as well as the specific powers conferred by these by-laws; 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.

Section 4.2. President. The board may appoint one of its members to be the President of the Association. In the absence of the Chairperson or Co-Chairpersons, the President shall preside at any meeting of the board. 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 by-laws. 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.

Section 4.3. Vice President. The board may appoint one or more Vice Presidents. Each Vice President shall have such powers and duties as may be assigned by the board.

Section 4.4. Secretary. The board shall appoint a Secretary, Cashier, or other designated officer who shall be Secretary of the board and of the Association, and shall keep accurate minutes of all meetings. The Secretary shall attend to the giving of all notices required by these by-laws; 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 Cashier, or imposed by these by-laws; and shall also perform such other duties as may be assigned from time to time, by the board.

Section 4.5. Other Officers. The board may appoint one or more Assistant Vice Presidents, one or more Trust Officers, one or more Assistant Secretaries, one or more Assistant Cashiers, 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 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, the Chairperson or Co-Chairpersons of the board, or the President. The board may authorize an officer to appoint one or more officers or assistant officers.

Section 4.6. 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 5.1. Trust Committee. There shall be a Trust Committee of this Association composed of four or more members, who shall be capable and experienced officers or directors of the Association. The Committee is charged with the responsibility for the investment, retention, or disposition of assets held in accounts with respect to which the Association has investment authority; for the review of the assets of accounts for which the Association has investment authority promptly after the acceptance of such an account and at least once during every calendar year thereafter to determine the advisability of retaining or disposing of such assets; for the determination of the manner in which proxies received for accounts for which the Association has responsibility for the voting of proxies shall be voted; for the determination of all substantial questions involving discretionary authority of the Association of a non-investment nature, including, but not limited to, distribution of principal and/or income in respect of any account; for providing advice as to the investment, retention, or disposition of assets in investment advisory accounts maintained by the Association; for the making of such reports as this board shall require; and for such other responsibilities as may be assigned by this board. The Trust Committee, in discharging its aforementioned responsibilities, may authorize officers of the Association to exercise such powers and under such conditions as the Committee may from time to time prescribe.

Section 5.2. Trust Investments. Funds held in a fiduciary capacity shall be invested according to the instrument establishing the fiduciary relationship and local law. Where such instrument does not specify the character and class of investments to be made and does not vest in the Association a discretion in the matter, funds held pursuant to such instrument shall be invested in investments in which corporate fiduciaries may invest under applicable law.

Section 5.3. Trust Audit Committee. The board shall appoint a committee of at least two directors, exclusive of any active officer of the association, 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.

Section 5.4. 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.

Article VI. Stock and Stock Certificates

Section 6.1. 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 his or her shares, succeed to all rights of the prior holder of such shares. The board 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 6.2. Stock Certificates. Certificates of stock shall bear the signature of the Chairperson or Co-Chairpersons of the board or President (which may be engraved, printed or impressed), and shall be signed manually or by facsimile process by the Secretary, Assistant Secretary, Cashier, Assistant Cashier, or any other officer appointed by the board 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. In case any such officer who has signed or whose facsimile signature has been placed upon such certificate shall have ceased to be such before such certificate is issued, it may be issued by the Association with the same effect as if such officer had not ceased to be such at the time of its issue. The corporate seal may be a facsimile, engraved or printed.

Article VII. Corporate Seal

Section 7.1. Corporate Seal. The Chairperson, the President, the Cashier, the Secretary or any Assistant Cashier or Assistant Secretary, or other officer thereunto designated by the board, shall have authority to affix the corporate seal to any document requiring such seal, and to attest the same. Such seal shall be substantially in the following form: A circle, with the words "Chase Manhattan Trust Company, National Association" within such circle.

Article VIII. Miscellaneous Provisions

Section 8.1. Fiscal Year. The fiscal year of the Association shall be the calendar year.

Section 8.2. 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 the Chairperson or Co-Chairpersons of the board, or the President, or any Vice Chairperson, or any Managing Director, or any Vice President, or any Assistant Vice President, or the Chief Financial Officer, or the Controller, or the Secretary, or the Cashier, or, if in connection with exercise of fiduciary powers of the Association, by any of those officers or by any Trust Officer. 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 may from time to time direct. The provisions of this Section 8.2 are supplementary to any other provision of these by-laws.

Section 8.3. Records. The Articles of Association, the by-laws and the proceedings of all meetings of the shareholders, the board, and standing committees of the board, shall be recorded in appropriate minute books provided for that purpose. The minutes of each meeting shall be signed by the Secretary, Cashier or other officer appointed to act as Secretary of the meeting.

Section 8.4. Corporate Governance Procedures. To the extent not inconsistent with applicable Federal banking law, bank safety and soundness or these by-laws, the corporate governance procedures found in the Delaware General Corporation Law shall be followed by the Association.

Article IX. Indemnification

Section 9.1. Right to Indemnification. Each person who was or is made a party or is threatened to be made a party to or is otherwise involved in any action, suit or proceeding, whether civil, criminal, administrative or investigative (hereinafter a "proceeding"), by reason of the fact that he or she is or was a director or an officer of the Association or is or was serving at the request of the Association as a director, officer, employee or agent of another corporation or of a partnership, joint venture, trust or other enterprise, including service with respect to an employee benefit plan (hereinafter an "indemnatee"), whether the basis of such proceeding is alleged action in an official capacity as a director, officer, employee or agent or in any other capacity while serving as a director, officer, employee or agent, shall be indemnified and held harmless by the Association to the fullest extent authorized by the Delaware General Corporation Law, as the same exists or may hereafter be amended (but, in the case of any such amendment, only to the extent that such amendment permits the Association to provide broader indemnification rights than such law permitted the Association to provide prior to such amendment), against all expense, liability and loss (including attorneys' fees, judgments, fines, ERISA excise taxes or penalties and amounts paid in settlement) reasonably incurred or suffered by such indemnatee in connection therewith; provided, however, that, except as provided in Section 9.3 of these by-laws with respect to proceedings to enforce rights to indemnification, the Association shall indemnify any such indemnatee in connection with a proceeding (or part thereof) initiated by such indemnatee only if such proceeding (or part thereof) was authorized by the board.

Section 9.2. Right to Advancement of Expenses. The right to indemnification conferred in Section 9.1 of these by-laws shall include the right to be paid by the Association the expenses (including attorney's fees) incurred in defending any such proceeding in advance of its final disposition (hereinafter an "advancement of expenses"); provided, however, that, if the Delaware General Corporation Law requires, an advancement of expenses incurred by an indemnatee in his or her capacity as a director or officer (and not in any other capacity in which service was or is rendered by such indemnatee, including, without limitation, service to an employee benefit plan) shall be made only upon

delivery to the Association of an undertaking (hereinafter an "undertaking"), by or on behalf of such indemnitee, to repay all amounts so advanced if it shall ultimately be determined by final judicial decision from which there is no further right to appeal (hereinafter a "final adjudication") that such indemnitee is not entitled to be indemnified for such expenses under this Section 9.2 or otherwise. The rights to

indemnification and to the advancement of expenses conferred in Sections 9.1 and 9.2 of these by-laws shall be contract rights and such rights shall continue as to an indemnitee who has ceased to be a director, officer, employee or agent and shall inure to the benefit of the indemnities heirs, executors and administrators.

Section 9.3. Right of Indemnitee to Bring Suit. If a claim under Section 9.1 or 9.2 of these by-laws is not paid in full by the Association within sixty (60) days after a written claim has been received by the Association except in the case of a claim for an advancement of expenses, in which case the applicable period shall be twenty (20) days, the indemnitee may at any time thereafter bring suit against the Association to recover the unpaid amount of the claim. If successful in whole or in part in any such suit, or in a suit brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the indemnitee shall be entitled to be paid also the expense of prosecuting or defending such suit. In (1) any suit brought by the indemnitee to enforce a right to indemnification hereunder (but not in a suit brought by the indemnitee to enforce a right to an advancement of expenses) it shall be a defense that, and (2) any suit brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the Association shall be entitled to recover such expenses upon a final adjudication that, the indemnitee has not met any applicable standard for indemnification set forth in the Delaware General Corporation Law. Neither the failure of the Association (including the board, the Association's independent legal counsel, or its shareholders) to have made a determination prior to the commencement of such suit that indemnification of the indemnitee is proper in the circumstances because the indemnitee has met the applicable standard of conduct set forth in the Delaware General Corporation Law, nor an actual determination by the Association (including the board, the Association's independent legal counsel, or its shareholders) that the indemnitee has not met such applicable standard of conduct, shall create a presumption that the indemnitee has not met the applicable standard of conduct or, in the case of such a suit brought by the indemnitee, be a defense to such suit. In any suit brought by the indemnitee to enforce a right to indemnification or to an advancement of expenses hereunder, or brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the burden of proving that the indemnitee is not entitled to be indemnified, or to such advancement of expenses, under this Article IX or otherwise shall be on the Association.

Section 9.4. Non-Exclusivity of Rights. The rights to indemnification and to the advancement of expenses conferred in this Article IX shall not be exclusive of any other right which any person may have or hereafter acquire under any statute, the Association's Articles of Association, by-laws, agreement, vote of shareholders or disinterested directors or otherwise.

Section 9.5. Insurance. The Association may maintain insurance, at its expense, to protect itself and any director, officer, employee or agent of the Association or another corporation, partnership, joint venture, trust or other enterprise against any expense, liability or loss, whether or not the Association would have the power to indemnify such person against such expense, liability or loss under the Delaware General Corporation Law.

Section 9.6. Indemnification of Employees and Agents of the Association. The Association may, to the extent authorized from time to time by the board, grant rights to indemnification and to the advancement of expenses to any employee or agent of the Association to the fullest extent of the provisions of this Article IX with respect to the indemnification and advancement of expenses of directors and officers of the Association.

Article X. By-laws

Section 10.1. Inspection. A copy of the by-laws, 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 10.2. Amendments. The by-laws may be amended, altered or repealed, at any regular meeting of the board by a vote of a majority of the total number of the directors except as provided below. The Association's shareholders may amend or repeal the by-laws even though the by-laws may be amended or repealed by its board.

EXHIBIT T1D

Consent for Records of Governmental Agencies
to be Made Available to the Commission

The undersigned, Chase Manhattan Trust Company, National Association, Pittsburgh, Pennsylvania pursuant to Section 321(b) of The Trust Indenture Act of 1939, hereby authorizes the Board of Governors of the Federal Reserve System, the Federal Reserve Banks, the Treasury Department, the Comptroller of the Currency and the Federal Deposit Insurance Corporation, under such conditions as they may prescribe, to make available to the Commission such reports, records or other information as they may have available with respect to the undersigned as a prospective trustee under an indenture to be qualified under the aforesaid Trustee Indenture Act of 1939 and to make through their examiners or other employees for the use of the Commission, examinations of the undersigned prospective Trustee.

The undersigned also, pursuant to Section 321(b) of said Trust Indenture Act of 1939, consents that reports of examination by the Federal, State, Territorial or District authorities may be furnished by such authorities to the Commission upon request therefor.

Dated this 11th day of December, 1998.

Chase Manhattan Trust Company,
National Association

By: /s/ Timothy J. Vara

Timothy J. Vara
Vice President

Chase Manhattan Trust Company, National Association
Statement of Condition

December 31, 2000

	(\$000)

Assets	
Cash and Due From Banks	\$ 17,999
Securities Available for Sale	4,857
Premises and Equipment	3,035
Accounts Receivable	8,764
Intangible Assets	177,440

Total Assets	\$212,095
	=====
Liabilities	
Sundry Liabilities and Accrued Expenses	\$ 11,303

Stockholder's Equity	
Common Stock	\$ 5,000
Surplus	179,892
Retained Earnings	15,900

Total Stockholder's Equity	\$200,792

Total Liabilities and Stockholder's Equity	\$212,095
	=====

SECURITIES AND EXCHANGE COMMISSION
Washington, D. C. 20549

FORM T-1

STATEMENT OF ELIGIBILITY
UNDER THE TRUST INDENTURE ACT OF 1939 OF
A CORPORATION DESIGNATED TO ACT AS TRUSTEE

CHECK IF AN APPLICATION TO DETERMINE ELIGIBILITY OF
A TRUSTEE PURSUANT TO SECTION 305(b)(2) _____

CHASE MANHATTAN TRUST COMPANY, NATIONAL ASSOCIATION
(Exact name of trustee as specified in its charter)

(State of incorporation if not a national bank) 29-2933369
(I.R.S. employer identification No.)

One Oxford Centre, Suite 1100
301 Grant Street, Pittsburgh, PA 15219
(Address of principal executive offices) (Zip Code)

William H. McDavid
The Chase Manhattan Bank
General Counsel
270 Park Avenue
New York, New York 10017
Tel: (212) 270-2611
(Name, address and telephone number of agent for service)

ALCOA INC.
(Exact name of obligor as specified in its charter)

Pennsylvania 25-0317820
(State or other jurisdiction of incorporation or organization) (I.R.S. employer identification No.)

ALCOA TRUST I
(Exact name of obligor as specified in its charter)

Delaware 25-6581451
(State or other jurisdiction of incorporation or organization) (I.R.S. employer identification No.)

201 Isabella Street
Pittsburgh, Pennsylvania 15212-5858
(Address of principal executive offices) (Zip Code)

Trust Preferred Securities of ALCOA TRUST I
(Title of the indenture securities)

GENERAL

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 the Currency, Washington, D.C.

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

Yes.

Item 2. Affiliations with the Obligor.

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

None.

No responses are included for Items 3-15 of this Form T-1 because the Obligor is not in default as provided under Item 13.

Item 16. List of Exhibits

List below all exhibits filed as a part of this Statement of Eligibility.

1. Exhibit T1A(a) A copy of the Articles of Association of the Trustee as now in effect.
2. Exhibit T1A(b) A copy of the Certificate of Authority of the Trustee (previously known as New Trust Company, National Association,) to commence business. Also included in Exhibit T1A (b) are letters dated November 24, 1997 from the Comptroller of the Currency authorizing the exercise of fiduciary powers by the Trustee and acknowledging the name change of the Trustee.
3. Exhibit T1A(c) The Authorization of the Trustee to exercise corporate trust powers is contained in Exhibit T1A(b).
4. Exhibit T1B A copy of the By-Laws of the Trustee as now in effect.
5. Exhibit T1C Not applicable
6. Exhibit T1D The Trustee's consent required by Section 321(b) of the Act.
7. Exhibit T1E A copy of the latest report of condition of the Trustee, published pursuant to law or the requirements of its supervising or examining authority.
8. Exhibit T1F Not applicable
9. Exhibit T1G Not applicable

SIGNATURE

Pursuant to the requirements of the Trust Indenture Act of 1939 the Trustee, Chase Manhattan Trust Company, 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 Pittsburgh and Pennsylvania, on the 9th day of April, 2001.

CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

By /s/ Elaine D. Renn

Elaine D. Renn
Vice President

[LOGO] CHASE

CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

CHARTER NO. 23548

ARTICLES OF ASSOCIATION

For the purpose of organizing an Association to perform any lawful activities of a national bank, the undersigned do enter into the following Articles of Association:

FIRST. The title of this Association shall be Chase Manhattan Trust Company, National Association (the "Association").

SECOND. The main office of the Association shall be in the City of Pittsburgh, County of Allegheny, Commonwealth of Pennsylvania. The business of the Association shall be limited to the fiduciary powers and the support of activities incidental to the exercise of those powers. The Association will obtain the prior written approval of the Office of the Comptroller of the Currency before amending these Articles of Association to expand the scope of its activities and services.

THIRD. The board of directors of this Association shall consist of not less than five nor more than twenty-five persons, the exact number 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, during the full term of his directorship, 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 of not less than \$1,000. Any vacancy in the board of directors may be filled by action of the shareholders or a majority of the remaining directors.

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.

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 therefore in the by-laws, 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 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. Advance notice of the meeting may be duly waived by the sole shareholder in accordance with 12 C.F.R. 7.2001.

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 him or her, when notice of the meeting stating that the purpose or one of the purposes is to remove him or her is provided, if there is a failure to fulfill one of the affirmative requirements for qualification, or for cause.

FIFTH. The authorized amount of capital stock of this Association shall be five million dollars (\$5,000,000), divided into fifty thousand (50,000) 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 to 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.

Unless otherwise specified in the 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.

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.

SIXTH. The board of directors may appoint one of its members President of this Association, and one of its members Chairperson of the board or two of its members as Co-Chairpersons 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 by-laws.

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 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.
- (8) Manage and administer the business and affairs of the Association.
- (9) Adopt initial by-laws, not inconsistent with law or the Articles of Association, for managing the business and regulating the affairs of the Association.
- (10) Amend or repeal by-laws, 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 location permitted under applicable law, without the approval of the shareholders, and 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 the approval of the shareholders subject to approval by the Office of 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. 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.

Controller of the Currency

TREASURY DEPARTMENT [PICTURE] OF THE UNITED STATES

Washington, DC

Whereas, satisfactory evidence has been presented to the Comptroller of the Currency that New Trust Company National Association located in Pittsburgh State of Pennsylvania has complied with all provisions of the statues of the United States required to be complied with before being authorized to commence the business of banking as a National Banking Association;

Now, therefore, I hereby certify that the above named association is authorized to commence the business of banking as a National Banking Association.

SEAL

Charter No.
23548

In Testimony whereof, witness my
signature and seal of
office this 24/th/ days of November
1997

/s/ [ILLEGIBLE]^^
Deputy Comptroller of the Currency

Comptroller of the Currency
Administrator of National Banks

Exhibit T1A (b)

November District
11 14 Avenue of the America's Suite 3900
New York, New York 10036

November 24, 1997

Joseph R. Bielawa
Vice President and Assistant General Counsel
The Chase Manhattan Bank
270 Park Avenue, 39/th/ Floor
New York, New York 10017

Re: Change in Corporate Title
New Trust Company, National Association (Bank)
Pittsburgh, Pennsylvania

Dear Mr. Bielawa:

The Office of the Comptroller of the Currency (OCC) has received your submission, concerning the change and amendment to Article First of the above-referenced Bank's Articles of Association. The OCC has amended its records to reflect that effective November 24, 1997, the corporate title of New Trust Company, National Association, Charter Number 23548, was changed to "Chase Manhattan Trust Company, National Association."

You are reminded that the OCC does not approve national bank name changes nor does it maintain official titles or the retention of alternate titles. The use of other titles or the retention of the rights of any previously title is the responsibility of the Bank's board of directors. Legal counsel should be consulted to determine whether or not the new title, or any previously used title, could be challenged by competing institutions under the provisions of federal state law.

A copy of the amended Article as accepted for filing is enclosed for the Bank's records.

Very truly yours

/s/ Linda Leickel

Linda Leickel
Senior Licensing Analyst
Charter No.:23548
Control No.: 97 NE 04 010 w/97 NE 01 022

Comptroller of the Currency
Administrator of National Banks

Exhibit T1A (b)

November District
1114 Avenue of the America's Suite 3900
New York, New York 10036

Licensing
Telephone (212) 790-4055
Fax: (212) 790-4098

November 24, 1997

Mr. Daryl J. Zupan
President and CEO
New Trust Company, National Association
c/o Mellon Bank, N.A., Corporate Trust
Two Mellon Bank Center, Suite 325
Pittsburgh, Pennsylvania 15259

Re: Charter for a National Trust Bank, New Trust Company, National Association.
Pittsburgh, Pennsylvania
ACN 97 NE 01 0022

Dear Mr. Zupan:

The Comptroller of the Currency (OCC) has found that you have met all conditions imposed by the OCC and completed all steps necessary to commence the business of banking. Your charter certificate is enclosed. You are authorized to commence business on November 24, 1997.

This letter also constitutes OCC authorization to exercise fiduciary powers.

You are reminded that several of the standard conditions contained in the preliminary approval letter dated October 23, 1997 will continue to apply once the bank opens and by opening, you agree to subject your association to these conditions of operations. Some of the conditions bear reiteration here:

1. Regardless of the association's FDIC insurance status, the association is subject to the Change in Bank Control act (12 U.S.C. 1817(j)) by virtue of its national bank charter. Please refer to item 4 in the list of standard conditions sent with the preliminary approval letter.
2. The board of directors is responsible for regular review and update of policies and procedures and for assuring ongoing compliance with them. This includes maintaining an internal control system that ensures compliance with the currency reporting and record keeping requirements of the Bank Secrecy Act (BSA). The board is expected to train its personnel in BSA procedures and designate one person or a group to monitor day-to-day compliance.

Mr. Daryl J. Zupan
Page two

3. The bank will not engage in full commercial powers authorized to national banks without the OCC's prior approval

Following the commencement of operations, bank management is urged to become familiar with the requirements of the Securities Exchange Act of 1934 and Part 11 of the Comptroller's regulations relative to the registration of the bank's equity securities and related periodic reports. These requirements will be applicable to your bank when the number of shareholders of record is maintained at 500 or more. Such registration may be subsequently terminated pursuant to the Act, only when the number of shareholders of record is reduced to fewer than 300.

Should you have any questions regarding the supervision of your bank, please contact the portfolio manager who will be responsible for OCC's ongoing supervisory effort at your institution. You will be notified of the name and number of the appropriate individual in the near future.

Sincerely,

/s/ Micheal G. Tiscia

Micheal G. Tiscia
Licensing Manager

Enclosure

cc: Official File
Field File

[LOGO] CHASE

CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

BY-LAWS

Article I. Meetings of Shareholders

Section 1.1. Annual Meeting. The regular 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, or such other place as the board may designate, and at such time in each year as may be designated by the board of directors. Unless otherwise provided by law, notice of the meeting may be waived by the Association's sole shareholder in accordance with 12 C.F.R. (S) 7.2001. 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, or, if the directors fail to fix the date, by shareholders representing two thirds of the shares issued and outstanding.

Section 1.2. Special Meetings. Except as otherwise specifically provided by statute, special meetings of the shareholders may be called for any purpose at any time by a majority of the board of directors or by any one or more shareholders owning, in the aggregate, not less than twenty-five percent of the stock of the Association or by the Chairperson of the board of directors or the President. Unless otherwise provided by law, advance notice of a special meeting may be waived by the Association's Sole Shareholder in accordance with 12 C.F.R. (S) 7.2001.

Section 1.3. 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 to 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 and to the Comptroller of the Currency not later than the close of business on the seventh (7th) 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 upon his/her instructions, the vote tellers may disregard all votes cast for each such nominee.

Section 1.4. 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 rubber stamped facsimile signatures may be used and unexecuted proxies may be counted upon receipt of a confirming telegram from the shareholder. Proxies meeting above requirements submitted at any time during a meeting shall be accepted.

Section 1.5 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 Section 10.2, 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 Section 10.2. Any action required or permitted to be taken by the shareholders may be taken without a meeting by unanimous written consent of the shareholders to a resolution authorizing the action. The resolution and the written consent shall be filed with the minutes of the proceedings of the shareholders.

Article II. Directors

Section 2.1. Board of Directors. The board of directors ("board") 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.

Section 2.2. Number. The board shall consist of not less than five nor more than twenty-five persons, the exact number within such minimum and maximum limits to be fixed and determined from time to time by resolution of a majority of the full board or by resolution of a majority of the shareholders at any meeting thereof; provided, however, that a majority of the full board may not

increase the number of directors to a number which: (1) exceeds by more than two the number of directors last elected by shareholders where such number was 15 or less; and (2) exceeds by more than four the number of directors last elected by shareholders where such number was 16 or more, but in no event shall the number of directors exceed 25.

Section 2.3. Organization Meeting. The Secretary 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 to organize the new board 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 2.4. Regular Meetings. The time and location of regular meetings of the board shall be set by the board. Such meetings may be held without notice. Any business may be transacted at any regular meeting. The board may adopt any procedures for the notice and conduct of any meetings as are not prohibited by law.

Section 2.5. Special Meetings. Special meetings of the board may be called at the request of the Chairperson or Co-Chairperson of the board, the President, or three or more directors. Each member of the board shall be given notice stating the time and place, by telegram, telephone, letter or in person, of each such special meeting at least one day prior to such meeting. Any business may be transacted at any special meeting.

Section 2.6. Action by the Board. Except as otherwise provided by law, corporate action to be taken by the board shall mean such action at a meeting of the board. Any action required or permitted to be taken by the board or any committee of the board may be taken without a meeting if all members of the board or the committee consent in writing to a resolution authorizing the action. The resolution and the written consents thereto shall be filed with the minutes of the proceedings of the board or committee. Any one or more members of the board or any committee may participate in a meeting of the board or committee 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 by such means shall constitute presence in person at such meeting.

Section 2.7. Waiver of Notice. Notice of a special meeting need not be given to any director who submits a signed waiver of notice, whether before or after the meeting, or who attends the meeting without protesting, prior thereto or at its commencement, the lack of notice to him or her.

Section 2.8. Quorum and Manner of Acting. Except as otherwise required by law, the Articles of Association or these by-laws, a majority of the directors shall constitute a quorum for the transaction of any business at any meeting of the board and the act of a majority of the directors present and voting at a meeting at which a quorum is present shall be the act of the board. In the absence of a quorum, a majority of the directors present may adjourn any meeting, from time to time, until a quorum is present and no notice of any adjourned meeting need be given. At any such adjourned meeting at which a quorum is present, any business may be transacted which might have been transacted at the meeting as originally called.

Section 2.9. Vacancies. In the event a majority of the full board increases the number of directors to a number which exceeds the number of directors last elected by shareholders, as permitted by Section 2.2, directors may be appointed to fill the resulting vacancies by vote of such majority of the full board. In the event of a vacancy in the board for any other cause, a director may be appointed to fill such vacancy by vote of a majority of the remaining directors then in office.

Section 2.10. Removal of Directors. The vacancy created by the removal of a director pursuant to this Section may be filled by the board in accordance with

Section 2.9 of these by-laws or by the shareholders.

Article III. Committees

Section 3.1. Executive Committee. There may be an executive committee consisting of the Chairperson or Co-Chairperson of the board and not less than two other directors appointed by the board annually or more often. Subject to the limitations in Section 3.4(g) of these by-laws, the executive committee shall have the maximum authority permitted by law.

Section 3.2. Audit Committee. There may be an audit committee composed of not less than two directors, exclusive of any active officers, appointed by the board annually or more often, whose duty it shall be to make an examination at least once during each calendar year and within fifteen months of the last examination into the affairs of the Association, or cause continuous suitable examinations to be made, by auditors responsible only to the board, and to report the results of any such examinations in writing to the board from time to time. Such examinations shall include audits of the fiduciary business of the Association as may be required by law or regulation.

Section 3.3. Other Committees. The board may appoint, from time to time, other committees of one or more persons, for such purposes and with such powers as the board may determine.

Section 3.4. General. (a) Each committee shall elect a Chairperson from among the members thereof and shall also designate a Secretary of the committee, who shall keep a record of its proceedings.

(b) Vacancies occurring from time to time in the membership of any committee shall be filled by the board for the unexpired term of the member whose departure causes such vacancy. The board may designate one or more alternate members of any committee, who may replace any absent member or members at any meeting of such committee.

(c) Each committee shall adopt its own rules of procedure and shall meet at such stated times as it may, by resolution, appoint. It shall also meet whenever called together by its Chairperson or the Chairperson of the board.

(d) No notice of regular meetings of any committee need be given. Notice of every special meeting shall be given either by mailing such notice to each member of such committee at his or her address, as the same appears in the records of the Association, at least two days before the day of such meeting, or by notifying each member on or before the day of such meeting by telephone or by personal notice, or by leaving a written notice at his or her residence or place of business on or before the day of such meeting. Waiver of notice in writing of any meeting, whether prior or subsequent to such meeting, or attendance at such meeting, shall be equivalent to notice of such meeting. Unless otherwise indicated in the notice thereof, any and all business may be transacted at any special meeting.

(e) All committees shall, with respect to all matters, be subject to the authority and direction of the board and shall report to it when required.

(f) Unless otherwise required by law, the Articles of Association or these by-laws, a quorum at any meeting of any committee shall be one-third of the full membership and present shall be the act of the committee.

(g) No committee shall have authority to take any action which is expressly required by law or regulation to be taken at a meeting of the board or by a specified proportion of directors.

Article IV. Officers and Employees

Section 4.1. Chairperson of the Board. The board shall appoint one of its members to be the Chairperson of the board, or two persons to serve as Co-Chairperson of the board to serve at its pleasure. Such person shall preside at all meetings of the board. The Chairperson or Co-Chairpersons of the board shall supervise the carrying out of the policies adopted or approved by the board; shall have general executive powers, as well as the specific powers conferred by these by-laws; 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.

Section 4.2. President. The board may appoint one of its members to be the President of the Association. In the absence of the Chairperson or Co-Chairpersons, the President shall preside at any meeting of the board. 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 by-laws. 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.

Section 4.3. Vice President. The board may appoint one or more Vice Presidents. Each Vice President shall have such powers and duties as may be assigned by the board.

Section 4.4. Secretary. The board shall appoint a Secretary, Cashier, or other designated officer who shall be Secretary of the board and of the Association, and shall keep accurate minutes of all meetings. The Secretary shall attend to the giving of all notices required by these by-laws; 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 Cashier, or imposed by these by-laws; and shall also perform such other duties as may be assigned from time to time, by the board.

Section 4.5. Other Officers. The board may appoint one or more Assistant Vice Presidents, one or more Trust Officers, one or more Assistant Secretaries, one or more Assistant Cashiers, 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 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, the Chairperson or Co-Chairpersons of the board, or the President. The board may authorize an officer to appoint one or more officers or assistant officers.

Section 4.6. 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 5.1. Trust Committee. There shall be a Trust Committee of this Association composed of four or more members, who shall be capable and experienced officers or directors of the Association. The Committee is charged with the responsibility for the investment, retention, or disposition of assets held in accounts with respect to which the Association has investment authority; for the review of the assets of accounts for which the Association has investment authority promptly after the acceptance of such an account and at least once during every calendar year thereafter to determine the advisability of retaining or disposing of such assets; for the determination of the manner in which proxies received for accounts for which the Association has responsibility for the voting of proxies shall be voted; for the determination of all substantial questions involving discretionary authority of the Association of a non-investment nature, including, but not limited to, distribution of principal and/or income in respect of any account; for providing advice as to the investment, retention, or disposition of assets in investment advisory accounts maintained by the Association; for the making of such reports as this board shall require; and for such other responsibilities as may be assigned by this board. The Trust Committee, in discharging its aforementioned responsibilities, may authorize officers of the Association to exercise such powers and under such conditions as the Committee may from time to time prescribe.

Section 5.2. Trust Investments. Funds held in a fiduciary capacity shall be invested according to the instrument establishing the fiduciary relationship and local law. Where such instrument does not specify the character and class of investments to be made and does not vest in the Association a discretion in the matter, funds held pursuant to such instrument shall be invested in investments in which corporate fiduciaries may invest under applicable law.

Section 5.3. Trust Audit Committee. The board shall appoint a committee of at least two directors, exclusive of any active officer of the association, 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.

Section 5.4. 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.

Article VI. Stock and Stock Certificates

Section 6.1. 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 his or her shares, succeed to all rights of the prior holder of such shares. The board 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 6.2. Stock Certificates. Certificates of stock shall bear the signature of the Chairperson or Co-Chairpersons of the board or President (which may be engraved, printed or impressed), and shall be signed manually or by facsimile process by the Secretary, Assistant Secretary, Cashier, Assistant Cashier, or any other officer appointed by the board 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. In case any such officer who has signed or whose facsimile signature has been placed upon such certificate shall have ceased to be such before such certificate is issued, it may be issued by the Association with the same effect as if such officer had not ceased to be such at the time of its issue. The corporate seal may be a facsimile, engraved or printed.

Article VII. Corporate Seal

Section 7.1. Corporate Seal. The Chairperson, the President, the Cashier, the Secretary or any Assistant Cashier or Assistant Secretary, or other officer thereunto designated by the board, shall have authority to affix the corporate seal to any document requiring such seal, and to attest the same. Such seal shall be substantially in the following form: A circle, with the words "Chase Manhattan Trust Company, National Association" within such circle.

Article VIII. Miscellaneous Provisions

Section 8.1. Fiscal Year. The fiscal year of the Association shall be the calendar year.

Section 8.2. 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 the Chairperson or Co-Chairpersons of the board, or the President, or any Vice Chairperson, or any Managing Director, or any Vice President, or any Assistant Vice President, or the Chief Financial Officer, or the Controller, or the Secretary, or the Cashier, or, if in connection with exercise of fiduciary powers of the Association, by any of those officers or by any Trust Officer. 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 may from time to time direct. The provisions of this Section 8.2 are supplementary to any other provision of these by-laws.

Section 8.3. Records. The Articles of Association, the by-laws and the proceedings of all meetings of the shareholders, the board, and standing committees of the board, shall be recorded in appropriate minute books provided for that purpose. The minutes of each meeting shall be signed by the Secretary, Cashier or other officer appointed to act as Secretary of the meeting.

Section 8.4. Corporate Governance Procedures. To the extent not inconsistent with applicable Federal banking law, bank safety and soundness or these by-laws, the corporate governance procedures found in the Delaware General Corporation Law shall be followed by the Association.

Article IX. Indemnification

Section 9.1. Right to Indemnification. Each person who was or is made a party or is threatened to be made a party to or is otherwise involved in any action, suit or proceeding, whether civil, criminal, administrative or investigative (hereinafter a "proceeding"), by reason of the fact that he or she is or was a director or an officer of the Association or is or was serving at the request of the Association as a director, officer, employee or agent of another corporation or of a partnership, joint venture, trust or other enterprise, including service with respect to an employee benefit plan (hereinafter an "indemnatee"), whether the basis of such proceeding is alleged action in an official capacity as a director, officer, employee or agent or in any other capacity while serving as a director, officer, employee or agent, shall be indemnified and held harmless by the Association to the fullest extent authorized by the Delaware General Corporation Law, as the same exists or may hereafter be amended (but, in the case of any such amendment, only to the extent that such amendment permits the Association to provide broader indemnification rights than such law permitted the Association to provide prior to such amendment), against all expense, liability and loss (including attorneys' fees, judgments, fines, ERISA excise taxes or penalties and amounts paid in settlement) reasonably incurred or suffered by such indemnatee in connection therewith; provided, however, that, except as provided in Section 9.3 of these by-laws with respect to proceedings to enforce rights to indemnification, the Association shall indemnify any such indemnatee in connection with a proceeding (or part thereof) initiated by such indemnatee only if such proceeding (or part thereof) was authorized by the board.

Section 9.2. Right to Advancement of Expenses. The right to indemnification conferred in Section 9.1 of these by-laws shall include the right to be paid by the Association the expenses (including attorney's fees) incurred in defending any such proceeding in advance of its final disposition (hereinafter an "advancement of expenses"); provided, however, that, if the Delaware General Corporation Law requires, an advancement of expenses incurred by an indemnatee in his or her capacity as a director or officer (and not in any other capacity in which service was or is rendered by such indemnatee, including, without limitation, service to an employee benefit plan) shall be made only upon

delivery to the Association of an undertaking (hereinafter an "undertaking"), by or on behalf of such indemnitee, to repay all amounts so advanced if it shall ultimately be determined by final judicial decision from which there is no further right to appeal (hereinafter a "final adjudication") that such indemnitee is not entitled to be indemnified for such expenses under this Section 9.2 or otherwise. The rights to

indemnification and to the advancement of expenses conferred in Sections 9.1 and 9.2 of these by-laws shall be contract rights and such rights shall continue as to an indemnitee who has ceased to be a director, officer, employee or agent and shall inure to the benefit of the indemnities heirs, executors and administrators.

Section 9.3. Right of Indemnitee to Bring Suit. If a claim under Section 9.1 or 9.2 of these by-laws is not paid in full by the Association within sixty (60) days after a written claim has been received by the Association except in the case of a claim for an advancement of expenses, in which case the applicable period shall be twenty (20) days, the indemnitee may at any time thereafter bring suit against the Association to recover the unpaid amount of the claim. If successful in whole or in part in any such suit, or in a suit brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the indemnitee shall be entitled to be paid also the expense of prosecuting or defending such suit. In (1) any suit brought by the indemnitee to enforce a right to indemnification hereunder (but not in a suit brought by the indemnitee to enforce a right to an advancement of expenses) it shall be a defense that, and (2) any suit brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the Association shall be entitled to recover such expenses upon a final adjudication that, the indemnitee has not met any applicable standard for indemnification set forth in the Delaware General Corporation Law. Neither the failure of the Association (including the board, the Association's independent legal counsel, or its shareholders) to have made a determination prior to the commencement of such suit that indemnification of the indemnitee is proper in the circumstances because the indemnitee has met the applicable standard of conduct set forth in the Delaware General Corporation Law, nor an actual determination by the Association (including the board, the Association's independent legal counsel, or its shareholders) that the indemnitee has not met such applicable standard of conduct, shall create a presumption that the indemnitee has not met the applicable standard of conduct or, in the case of such a suit brought by the indemnitee, be a defense to such suit. In any suit brought by the indemnitee to enforce a right to indemnification or to an advancement of expenses hereunder, or brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the burden of proving that the indemnitee is not entitled to be indemnified, or to such advancement of expenses, under this Article IX or otherwise shall be on the Association.

Section 9.4. Non-Exclusivity of Rights. The rights to indemnification and to the advancement of expenses conferred in this Article IX shall not be exclusive of any other right which any person may have or hereafter acquire under any statute, the Association's Articles of Association, by-laws, agreement, vote of shareholders or disinterested directors or otherwise.

Section 9.5. Insurance. The Association may maintain insurance, at its expense, to protect itself and any director, officer, employee or agent of the Association or another corporation, partnership, joint venture, trust or other enterprise against any expense, liability or loss, whether or not the Association would have the power to indemnify such person against such expense, liability or loss under the Delaware General Corporation Law.

Section 9.6. Indemnification of Employees and Agents of the Association. The Association may, to the extent authorized from time to time by the board, grant rights to indemnification and to the advancement of expenses to any employee or agent of the Association to the fullest extent of the provisions of this Article IX with respect to the indemnification and advancement of expenses of directors and officers of the Association.

Article X. By-laws

Section 10.1. Inspection. A copy of the by-laws, 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 10.2. Amendments. The by-laws may be amended, altered or repealed, at any regular meeting of the board by a vote of a majority of the total number of the directors except as provided below. The Association's shareholders may amend or repeal the by-laws even though the by-laws may be amended or repealed by its board.

EXHIBIT T1D

Consent for Records of Governmental Agencies
to be Made Available to the Commission

The undersigned, Chase Manhattan Trust Company, National Association, Pittsburgh, Pennsylvania pursuant to Section 321(b) of The Trust Indenture Act of 1939, hereby authorizes the Board of Governors of the Federal Reserve System, the Federal Reserve Banks, the Treasury Department, the Comptroller of the Currency and the Federal Deposit Insurance Corporation, under such conditions as they may prescribe, to make available to the Commission such reports, records or other information as they may have available with respect to the undersigned as a prospective trustee under an indenture to be qualified under the aforesaid Trustee Indenture Act of 1939 and to make through their examiners or other employees for the use of the Commission, examinations of the undersigned prospective Trustee.

The undersigned also, pursuant to Section 321(b) of said Trust Indenture Act of 1939, consents that reports of examination by the Federal, State, Territorial or District authorities may be furnished by such authorities to the Commission upon request therefor.

Dated this 11th day of December, 1998.

Chase Manhattan Trust Company,
National Association

By: /s/ Timothy J. Vara

Timothy J. Vara
Vice President

Chase Manhattan Trust Company, National Association
Statement of Condition

December 31, 2000

	(\$000)

Assets	
Cash and Due From Banks	\$ 17,999
Securities Available for Sale	4,857
Premises and Equipment	3,035
Accounts Receivable	8,764
Intangible Assets	177,440

Total Assets	\$212,095
	=====
Liabilities	
Sundry Liabilities and Accrued Expenses	\$ 11,303

Stockholder's Equity	
Common Stock	\$ 5,000
Surplus	179,892
Retained Earnings	15,900

Total Stockholder's Equity	\$200,792

Total Liabilities and Stockholder's Equity	\$212,095
	=====

SECURITIES AND EXCHANGE COMMISSION
Washington, D. C. 20549

FORM T-1

STATEMENT OF ELIGIBILITY
UNDER THE TRUST INDENTURE ACT OF 1939 OF
A CORPORATION DESIGNATED TO ACT AS TRUSTEE

CHECK IF AN APPLICATION TO DETERMINE ELIGIBILITY OF
A TRUSTEE PURSUANT TO SECTION 305(b)(2) _____

CHASE MANHATTAN TRUST COMPANY, NATIONAL ASSOCIATION
(Exact name of trustee as specified in its charter)

(State of incorporation if not a national bank) 29-2933369
(I.R.S. employer identification No.)

One Oxford Centre, Suite 1100
301 Grant Street, Pittsburgh, PA 15219
(Address of principal executive offices) (Zip Code)

William H. McDavid
The Chase Manhattan Bank
General Counsel
270 Park Avenue
New York, New York 10017
Tel: (212) 270-2611
(Name, address and telephone number of agent for service)

ALCOA INC.
(Exact name of obligor as specified in its charter)

Pennsylvania 25-0317820
(State or other jurisdiction of incorporation or organization) (I.R.S. employer identification No.)

ALCOA TRUST I
(Exact name of obligor as specified in its charter)

Delaware 25-6581451
(State or other jurisdiction of incorporation or organization) (I.R.S. employer identification No.)

201 Isabella Street
Pittsburgh, Pennsylvania 15212-5858
(Address of principal executive offices) (Zip Code)

Guarantee of Preferred Securities of
ALCOA Trust I by the Company
(Title of the indenture securities)

GENERAL

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 the Currency, Washington, D.C.

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

Yes.

Item 2. Affiliations with the Obligor.

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

None.

No responses are included for Items 3-15 of this Form T-1 because the Obligor is not in default as provided under Item 13.

Item 16. List of Exhibits

List below all exhibits filed as a part of this Statement of Eligibility.

1. Exhibit T1A(a) A copy of the Articles of Association of the Trustee as now in effect.
2. Exhibit T1A(b) A copy of the Certificate of Authority of the Trustee (previously known as New Trust Company, National Association,) to commence business. Also included in Exhibit T1A (b) are letters dated November 24, 1997 from the Comptroller of the Currency authorizing the exercise of fiduciary powers by the Trustee and acknowledging the name change of the Trustee.
3. Exhibit T1A(c) The Authorization of the Trustee to exercise corporate trust powers is contained in Exhibit T1A(b).
4. Exhibit T1B A copy of the By-Laws of the Trustee as now in effect.
5. Exhibit T1C Not applicable
6. Exhibit T1D The Trustee's consent required by Section 321(b) of the Act.
7. Exhibit T1E A copy of the latest report of condition of the Trustee, published pursuant to law or the requirements of its supervising or examining authority.
8. Exhibit T1F Not applicable
9. Exhibit T1G Not applicable

SIGNATURE

Pursuant to the requirements of the Trust Indenture Act of 1939 the Trustee, Chase Manhattan Trust Company, 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 Pittsburgh and Pennsylvania, on the 9th day of April, 2001.

CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

By /s/ Elaine D. Renn

Elaine D. Renn
Vice President

[LOGO] CHASE

CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

CHARTER NO. 23548

ARTICLES OF ASSOCIATION

For the purpose of organizing an Association to perform any lawful activities of a national bank, the undersigned do enter into the following Articles of Association:

FIRST. The title of this Association shall be Chase Manhattan Trust Company, National Association (the "Association").

SECOND. The main office of the Association shall be in the City of Pittsburgh, County of Allegheny, Commonwealth of Pennsylvania. The business of the Association shall be limited to the fiduciary powers and the support of activities incidental to the exercise of those powers. The Association will obtain the prior written approval of the Office of the Comptroller of the Currency before amending these Articles of Association to expand the scope of its activities and services.

THIRD. The board of directors of this Association shall consist of not less than five nor more than twenty-five persons, the exact number 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, during the full term of his directorship, 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 of not less than \$1,000. Any vacancy in the board of directors may be filled by action of the shareholders or a majority of the remaining directors.

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.

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 therefore in the by-laws, 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 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. Advance notice of the meeting may be duly waived by the sole shareholder in accordance with 12 C.F.R. 7.2001.

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 him or her, when notice of the meeting stating that the purpose or one of the purposes is to remove him or her is provided, if there is a failure to fulfill one of the affirmative requirements for qualification, or for cause.

FIFTH. The authorized amount of capital stock of this Association shall be five million dollars (\$5,000,000), divided into fifty thousand (50,000) 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 to 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.

Unless otherwise specified in the 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.

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.

SIXTH. The board of directors may appoint one of its members President of this Association, and one of its members Chairperson of the board or two of its members as Co-Chairpersons 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 by-laws.

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 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.
- (8) Manage and administer the business and affairs of the Association.
- (9) Adopt initial by-laws, not inconsistent with law or the Articles of Association, for managing the business and regulating the affairs of the Association.
- (10) Amend or repeal by-laws, 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 location permitted under applicable law, without the approval of the shareholders, and 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 the approval of the shareholders subject to approval by the Office of 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. 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.

Comptroller of the Currency

[LOGO]

TREASURY DEPARTMENT OF THE UNITED STATES

Washington, DC

Whereas, satisfactory evidence has been presented to the Comptroller of the Currency that New Trust Company National Association located in Pittsburgh State of Pennsylvania has complied with all provisions of the statues of the United States required to be complied with before being authorized to commence the business of banking as a National Banking Association;

Now, therefore, I hereby certify that the above named association is authorized to commence the business of banking as a National Banking Association.

SEAL

Charter No.
23548

In Testimony whereof, witness my
signature and seal of
office this 24/th/ days of November
1997

/s/ [ILLEGIBLE]^^
Deputy Comptroller of the Currency

Comptroller of the Currency
Administrator of National Banks

Exhibit T1A (b)

November District
11 14 Avenue of the America's Suite 3900
New York, New York 10036

November 24, 1997

Joseph R. Bielawa
Vice President and Assistant General Counsel
The Chase Manhattan Bank
270 Park Avenue, 39/th/ Floor
New York, New York 10017

Re: Change in Corporate Title
New Trust Company, National Association (Bank)
Pittsburgh, Pennsylvania

Dear Mr. Bielawa:

The Office of the Comptroller of the Currency (OCC) has received your submission, concerning the change and amendment to Article First of the above-referenced Bank's Articles of Association. The OCC has amended its records to reflect that effective November 24, 1997, the corporate title of New Trust Company, National Association, Charter Number 23548, was changed to "Chase Manhattan Trust Company, National Association."

You are reminded that the OCC does not approve national bank name changes nor does it maintain official titles or the retention of alternate titles. The use of other titles or the retention of the rights of any previously title is the responsibility of the Bank's board of directors. Legal counsel should be consulted to determine whether or not the new title, or any previously used title, could be challenged by competing institutions under the provisions of federal state law.

A copy of the amended Article as accepted for filing is enclosed for the Bank's records.

Very truly yours

/s/ Linda Leickel

Linda Leickel
Senior Licensing Analyst
Charter No.:23548
Control No.: 97 NE 04 010 w/97 NE 01 022

Comptroller of the Currency
Administrator of National Banks

Exhibit T1A (b)

November District
1114 Avenue of the America's Suite 3900
New York, New York 10036

Licensing
Telephone (212) 790-4055
Fax: (212) 790-4098

November 24, 1997

Mr. Daryl J. Zupan
President and CEO
New Trust Company, National Association
c/o Mellon Bank, N.A., Corporate Trust
Two Mellon Bank Center, Suite 325
Pittsburgh, Pennsylvania 15259

Re: Charter for a National Trust Bank, New Trust Company, National Association.
Pittsburgh, Pennsylvania
ACN 97 NE 01 0022

Dear Mr. Zupan:

The Comptroller of the Currency (OCC) has found that you have met all conditions imposed by the OCC and completed all steps necessary to commence the business of banking. Your charter certificate is enclosed. You are authorized to commence business on November 24, 1997.

This letter also constitutes OCC authorization to exercise fiduciary powers.

You are reminded that several of the standard conditions contained in the preliminary approval letter dated October 23, 1997 will continue to apply once the bank opens and by opening, you agree to subject your association to these conditions of operations. Some of the conditions bear reiteration here:

1. Regardless of the association's FDIC insurance status, the association is subject to the Change in Bank Control act (12 U.S.C. 1817(j)) by virtue of its national bank charter. Please refer to item 4 in the list of standard conditions sent with the preliminary approval letter.
2. The board of directors is responsible for regular review and update of policies and procedures and for assuring ongoing compliance with them. This includes maintaining an internal control system that ensures compliance with the currency reporting and record keeping requirements of the Bank Secrecy Act (BSA). The board is expected to train its personnel in BSA procedures and designate one person or a group to monitor day-to-day compliance.

Mr. Daryl J. Zupan
Page two

3. The bank will not engage in full commercial powers authorized to national banks without the OCC's prior approval

Following the commencement of operations, bank management is urged to become familiar with the requirements of the Securities Exchange Act of 1934 and Part 11 of the Comptroller's regulations relative to the registration of the bank's equity securities and related periodic reports. These requirements will be applicable to your bank when the number of shareholders of record is maintained at 500 or more. Such registration may be subsequently terminated pursuant to the Act, only when the number of shareholders of record is reduced to fewer than 300.

Should you have any questions regarding the supervision of your bank, please contact the portfolio manager who will be responsible for OCC's ongoing supervisory effort at your institution. You will be notified of the name and number of the appropriate individual in the near future.

Sincerely,

/s/ Micheal G. Tiscia

Micheal G. Tiscia
Licensing Manager

Enclosure

cc: Official File
Field File

[LOGO] CHASE

CHASE MANHATTAN TRUST COMPANY,
NATIONAL ASSOCIATION

BY-LAWS

Article I. Meetings of Shareholders

Section 1.1. Annual Meeting. The regular 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, or such other place as the board may designate, and at such time in each year as may be designated by the board of directors. Unless otherwise provided by law, notice of the meeting may be waived by the Association's sole shareholder in accordance with 12 C.F.R. (S) 7.2001. 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, or, if the directors fail to fix the date, by shareholders representing two thirds of the shares issued and outstanding.

Section 1.2. Special Meetings. Except as otherwise specifically provided by statute, special meetings of the shareholders may be called for any purpose at any time by a majority of the board of directors or by any one or more shareholders owning, in the aggregate, not less than twenty-five percent of the stock of the Association or by the Chairperson of the board of directors or the President. Unless otherwise provided by law, advance notice of a special meeting may be waived by the Association's Sole Shareholder in accordance with 12 C.F.R. (S) 7.2001.

Section 1.3. 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 to 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 and to the Comptroller of the Currency not later than the close of business on the seventh (7th) 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 upon his/her instructions, the vote tellers may disregard all votes cast for each such nominee.

Section 1.4. 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 rubber stamped facsimile signatures may be used and unexecuted proxies may be counted upon receipt of a confirming telegram from the shareholder. Proxies meeting above requirements submitted at any time during a meeting shall be accepted.

Section 1.5 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 Section 10.2, 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 Section 10.2. Any action required or permitted to be taken by the shareholders may be taken without a meeting by unanimous written consent of the shareholders to a resolution authorizing the action. The resolution and the written consent shall be filed with the minutes of the proceedings of the shareholders.

Article II. Directors

Section 2.1. Board of Directors. The board of directors ("board") 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.

Section 2.2. Number. The board shall consist of not less than five nor more than twenty-five persons, the exact number within such minimum and maximum limits to be fixed and determined from time to time by resolution of a majority of the full board or by resolution of a majority of the shareholders at any meeting thereof; provided, however, that a majority of the full board may not

increase the number of directors to a number which: (1) exceeds by more than two the number of directors last elected by shareholders where such number was 15 or less; and (2) exceeds by more than four the number of directors last elected by shareholders where such number was 16 or more, but in no event shall the number of directors exceed 25.

Section 2.3. Organization Meeting. The Secretary 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 to organize the new board 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 2.4. Regular Meetings. The time and location of regular meetings of the board shall be set by the board. Such meetings may be held without notice. Any business may be transacted at any regular meeting. The board may adopt any procedures for the notice and conduct of any meetings as are not prohibited by law.

Section 2.5. Special Meetings. Special meetings of the board may be called at the request of the Chairperson or Co-Chairperson of the board, the President, or three or more directors. Each member of the board shall be given notice stating the time and place, by telegram, telephone, letter or in person, of each such special meeting at least one day prior to such meeting. Any business may be transacted at any special meeting.

Section 2.6. Action by the Board. Except as otherwise provided by law, corporate action to be taken by the board shall mean such action at a meeting of the board. Any action required or permitted to be taken by the board or any committee of the board may be taken without a meeting if all members of the board or the committee consent in writing to a resolution authorizing the action. The resolution and the written consents thereto shall be filed with the minutes of the proceedings of the board or committee. Any one or more members of the board or any committee may participate in a meeting of the board or committee 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 by such means shall constitute presence in person at such meeting.

Section 2.7. Waiver of Notice. Notice of a special meeting need not be given to any director who submits a signed waiver of notice, whether before or after the meeting, or who attends the meeting without protesting, prior thereto or at its commencement, the lack of notice to him or her.

Section 2.8. Quorum and Manner of Acting. Except as otherwise required by law, the Articles of Association or these by-laws, a majority of the directors shall constitute a quorum for the transaction of any business at any meeting of the board and the act of a majority of the directors present and voting at a meeting at which a quorum is present shall be the act of the board. In the absence of a quorum, a majority of the directors present may adjourn any meeting, from time to time, until a quorum is present and no notice of any adjourned meeting need be given. At any such adjourned meeting at which a quorum is present, any business may be transacted which might have been transacted at the meeting as originally called.

Section 2.9. Vacancies. In the event a majority of the full board increases the number of directors to a number which exceeds the number of directors last elected by shareholders, as permitted by Section 2.2, directors may be appointed to fill the resulting vacancies by vote of such majority of the full board. In the event of a vacancy in the board for any other cause, a director may be appointed to fill such vacancy by vote of a majority of the remaining directors then in office.

Section 2.10. Removal of Directors. The vacancy created by the removal of a director pursuant to this Section may be filled by the board in accordance with

Section 2.9 of these by-laws or by the shareholders.

Article III. Committees

Section 3.1. Executive Committee. There may be an executive committee consisting of the Chairperson or Co-Chairperson of the board and not less than two other directors appointed by the board annually or more often. Subject to the limitations in Section 3.4(g) of these by-laws, the executive committee shall have the maximum authority permitted by law.

Section 3.2. Audit Committee. There may be an audit committee composed of not less than two directors, exclusive of any active officers, appointed by the board annually or more often, whose duty it shall be to make an examination at least once during each calendar year and within fifteen months of the last examination into the affairs of the Association, or cause continuous suitable examinations to be made, by auditors responsible only to the board, and to report the results of any such examinations in writing to the board from time to time. Such examinations shall include audits of the fiduciary business of the Association as may be required by law or regulation.

Section 3.3. Other Committees. The board may appoint, from time to time, other committees of one or more persons, for such purposes and with such powers as the board may determine.

Section 3.4. General. (a) Each committee shall elect a Chairperson from among the members thereof and shall also designate a Secretary of the committee, who shall keep a record of its proceedings.

(b) Vacancies occurring from time to time in the membership of any committee shall be filled by the board for the unexpired term of the member whose departure causes such vacancy. The board may designate one or more alternate members of any committee, who may replace any absent member or members at any meeting of such committee.

(c) Each committee shall adopt its own rules of procedure and shall meet at such stated times as it may, by resolution, appoint. It shall also meet whenever called together by its Chairperson or the Chairperson of the board.

(d) No notice of regular meetings of any committee need be given. Notice of every special meeting shall be given either by mailing such notice to each member of such committee at his or her address, as the same appears in the records of the Association, at least two days before the day of such meeting, or by notifying each member on or before the day of such meeting by telephone or by personal notice, or by leaving a written notice at his or her residence or place of business on or before the day of such meeting. Waiver of notice in writing of any meeting, whether prior or subsequent to such meeting, or attendance at such meeting, shall be equivalent to notice of such meeting. Unless otherwise indicated in the notice thereof, any and all business may be transacted at any special meeting.

(e) All committees shall, with respect to all matters, be subject to the authority and direction of the board and shall report to it when required.

(f) Unless otherwise required by law, the Articles of Association or these by-laws, a quorum at any meeting of any committee shall be one-third of the full membership and present shall be the act of the committee.

(g) No committee shall have authority to take any action which is expressly required by law or regulation to be taken at a meeting of the board or by a specified proportion of directors.

Article IV. Officers and Employees

Section 4.1. Chairperson of the Board. The board shall appoint one of its members to be the Chairperson of the board, or two persons to serve as Co-Chairperson of the board to serve at its pleasure. Such person shall preside at all meetings of the board. The Chairperson or Co-Chairpersons of the board shall supervise the carrying out of the policies adopted or approved by the board; shall have general executive powers, as well as the specific powers conferred by these by-laws; 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.

Section 4.2. President. The board may appoint one of its members to be the President of the Association. In the absence of the Chairperson or Co-Chairpersons, the President shall preside at any meeting of the board. 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 by-laws. 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.

Section 4.3. Vice President. The board may appoint one or more Vice Presidents. Each Vice President shall have such powers and duties as may be assigned by the board.

Section 4.4. Secretary. The board shall appoint a Secretary, Cashier, or other designated officer who shall be Secretary of the board and of the Association, and shall keep accurate minutes of all meetings. The Secretary shall attend to the giving of all notices required by these by-laws; 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 Cashier, or imposed by these by-laws; and shall also perform such other duties as may be assigned from time to time, by the board.

Section 4.5. Other Officers. The board may appoint one or more Assistant Vice Presidents, one or more Trust Officers, one or more Assistant Secretaries, one or more Assistant Cashiers, 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 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, the Chairperson or Co-Chairpersons of the board, or the President. The board may authorize an officer to appoint one or more officers or assistant officers.

Section 4.6. 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 5.1. Trust Committee. There shall be a Trust Committee of this Association composed of four or more members, who shall be capable and experienced officers or directors of the Association. The Committee is charged with the responsibility for the investment, retention, or disposition of assets held in accounts with respect to which the Association has investment authority; for the review of the assets of accounts for which the Association has investment authority promptly after the acceptance of such an account and at least once during every calendar year thereafter to determine the advisability of retaining or disposing of such assets; for the determination of the manner in which proxies received for accounts for which the Association has responsibility for the voting of proxies shall be voted; for the determination of all substantial questions involving discretionary authority of the Association of a non-investment nature, including, but not limited to, distribution of principal and/or income in respect of any account; for providing advice as to the investment, retention, or disposition of assets in investment advisory accounts maintained by the Association; for the making of such reports as this board shall require; and for such other responsibilities as may be assigned by this board. The Trust Committee, in discharging its aforementioned responsibilities, may authorize officers of the Association to exercise such powers and under such conditions as the Committee may from time to time prescribe.

Section 5.2. Trust Investments. Funds held in a fiduciary capacity shall be invested according to the instrument establishing the fiduciary relationship and local law. Where such instrument does not specify the character and class of investments to be made and does not vest in the Association a discretion in the matter, funds held pursuant to such instrument shall be invested in investments in which corporate fiduciaries may invest under applicable law.

Section 5.3. Trust Audit Committee. The board shall appoint a committee of at least two directors, exclusive of any active officer of the association, 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.

Section 5.4. 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.

Article VI. Stock and Stock Certificates

Section 6.1. 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 his or her shares, succeed to all rights of the prior holder of such shares. The board 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 6.2. Stock Certificates. Certificates of stock shall bear the signature of the Chairperson or Co-Chairpersons of the board or President (which may be engraved, printed or impressed), and shall be signed manually or by facsimile process by the Secretary, Assistant Secretary, Cashier, Assistant Cashier, or any other officer appointed by the board 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. In case any such officer who has signed or whose facsimile signature has been placed upon such certificate shall have ceased to be such before such certificate is issued, it may be issued by the Association with the same effect as if such officer had not ceased to be such at the time of its issue. The corporate seal may be a facsimile, engraved or printed.

Article VII. Corporate Seal

Section 7.1. Corporate Seal. The Chairperson, the President, the Cashier, the Secretary or any Assistant Cashier or Assistant Secretary, or other officer thereunto designated by the board, shall have authority to affix the corporate seal to any document requiring such seal, and to attest the same. Such seal shall be substantially in the following form: A circle, with the words "Chase Manhattan Trust Company, National Association" within such circle.

Article VIII. Miscellaneous Provisions

Section 8.1. Fiscal Year. The fiscal year of the Association shall be the calendar year.

Section 8.2. 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 the Chairperson or Co-Chairpersons of the board, or the President, or any Vice Chairperson, or any Managing Director, or any Vice President, or any Assistant Vice President, or the Chief Financial Officer, or the Controller, or the Secretary, or the Cashier, or, if in connection with exercise of fiduciary powers of the Association, by any of those officers or by any Trust Officer. 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 may from time to time direct. The provisions of this Section 8.2 are supplementary to any other provision of these by-laws.

Section 8.3. Records. The Articles of Association, the by-laws and the proceedings of all meetings of the shareholders, the board, and standing committees of the board, shall be recorded in appropriate minute books provided for that purpose. The minutes of each meeting shall be signed by the Secretary, Cashier or other officer appointed to act as Secretary of the meeting.

Section 8.4. Corporate Governance Procedures. To the extent not inconsistent with applicable Federal banking law, bank safety and soundness or these by-laws, the corporate governance procedures found in the Delaware General Corporation Law shall be followed by the Association.

Article IX. Indemnification

Section 9.1. Right to Indemnification. Each person who was or is made a party or is threatened to be made a party to or is otherwise involved in any action, suit or proceeding, whether civil, criminal, administrative or investigative (hereinafter a "proceeding"), by reason of the fact that he or she is or was a director or an officer of the Association or is or was serving at the request of the Association as a director, officer, employee or agent of another corporation or of a partnership, joint venture, trust or other enterprise, including service with respect to an employee benefit plan (hereinafter an "indemnatee"), whether the basis of such proceeding is alleged action in an official capacity as a director, officer, employee or agent or in any other capacity while serving as a director, officer, employee or agent, shall be indemnified and held harmless by the Association to the fullest extent authorized by the Delaware General Corporation Law, as the same exists or may hereafter be amended (but, in the case of any such amendment, only to the extent that such amendment permits the Association to provide broader indemnification rights than such law permitted the Association to provide prior to such amendment), against all expense, liability and loss (including attorneys' fees, judgments, fines, ERISA excise taxes or penalties and amounts paid in settlement) reasonably incurred or suffered by such indemnatee in connection therewith; provided, however, that, except as provided in Section 9.3 of these by-laws with respect to proceedings to enforce rights to indemnification, the Association shall indemnify any such indemnatee in connection with a proceeding (or part thereof) initiated by such indemnatee only if such proceeding (or part thereof) was authorized by the board.

Section 9.2. Right to Advancement of Expenses. The right to indemnification conferred in Section 9.1 of these by-laws shall include the right to be paid by the Association the expenses (including attorney's fees) incurred in defending any such proceeding in advance of its final disposition (hereinafter an "advancement of expenses"); provided, however, that, if the Delaware General Corporation Law requires, an advancement of expenses incurred by an indemnatee in his or her capacity as a director or officer (and not in any other capacity in which service was or is rendered by such indemnatee, including, without

limitation, service to an employee benefit plan) shall be made only upon delivery to the Association of an undertaking (hereinafter an "undertaking"), by or on behalf of such indemnitee, to repay all amounts so advanced if it shall ultimately be determined by final judicial decision from which there is no further right to appeal (hereinafter a "final adjudication") that such indemnitee is not entitled to be indemnified for such expenses under this Section 9.2 or otherwise. The rights to

indemnification and to the advancement of expenses conferred in Sections 9.1 and 9.2 of these by-laws shall be contract rights and such rights shall continue as to an indemnitee who has ceased to be a director, officer, employee or agent and shall inure to the benefit of the indemnities heirs, executors and administrators.

Section 9.3. Right of Indemnitee to Bring Suit. If a claim under Section 9.1 or 9.2 of these by-laws is not paid in full by the Association within sixty (60) days after a written claim has been received by the Association except in the case of a claim for an advancement of expenses, in which case the applicable period shall be twenty (20) days, the indemnitee may at any time thereafter bring suit against the Association to recover the unpaid amount of the claim. If successful in whole or in part in any such suit, or in a suit brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the indemnitee shall be entitled to be paid also the expense of prosecuting or defending such suit. In (1) any suit brought by the indemnitee to enforce a right to indemnification hereunder (but not in a suit brought by the indemnitee to enforce a right to an advancement of expenses) it shall be a defense that, and (2) any suit brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the Association shall be entitled to recover such expenses upon a final adjudication that, the indemnitee has not met any applicable standard for indemnification set forth in the Delaware General Corporation Law. Neither the failure of the Association (including the board, the Association's independent legal counsel, or its shareholders) to have made a determination prior to the commencement of such suit that indemnification of the indemnitee is proper in the circumstances because the indemnitee has met the applicable standard of conduct set forth in the Delaware General Corporation Law, nor an actual determination by the Association (including the board, the Association's independent legal counsel, or its shareholders) that the indemnitee has not met such applicable standard of conduct, shall create a presumption that the indemnitee has not met the applicable standard of conduct or, in the case of such a suit brought by the indemnitee, be a defense to such suit. In any suit brought by the indemnitee to enforce a right to indemnification or to an advancement of expenses hereunder, or brought by the Association to recover an advancement of expenses pursuant to the terms of an undertaking, the burden of proving that the indemnitee is not entitled to be indemnified, or to such advancement of expenses, under this Article IX or otherwise shall be on the Association.

Section 9.4. Non-Exclusivity of Rights. The rights to indemnification and to the advancement of expenses conferred in this Article IX shall not be exclusive of any other right which any person may have or hereafter acquire under any statute, the Association's Articles of Association, by-laws, agreement, vote of shareholders or disinterested directors or otherwise.

Section 9.5. Insurance. The Association may maintain insurance, at its expense, to protect itself and any director, officer, employee or agent of the Association or another corporation, partnership, joint venture, trust or other enterprise against any expense, liability or loss, whether or not the Association would have the power to indemnify such person against such expense, liability or loss under the Delaware General Corporation Law.

Section 9.6. Indemnification of Employees and Agents of the Association. The Association may, to the extent authorized from time to time by the board, grant rights to indemnification and to the advancement of expenses to any employee or agent of the Association to the fullest extent of the provisions of this Article IX with respect to the indemnification and advancement of expenses of directors and officers of the Association.

Article X. By-laws

Section 10.1. Inspection. A copy of the by-laws, 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 10.2. Amendments. The by-laws may be amended, altered or repealed, at any regular meeting of the board by a vote of a majority of the total number of the directors except as provided below. The Association's shareholders may amend or repeal the by-laws even though the by-laws may be amended or repealed by its board.

EXHIBIT T1D

Consent for Records of Governmental Agencies
to be Made Available to the Commission

The undersigned, Chase Manhattan Trust Company, National Association, Pittsburgh, Pennsylvania pursuant to Section 321(b) of The Trust Indenture Act of 1939, hereby authorizes the Board of Governors of the Federal Reserve System, the Federal Reserve Banks, the Treasury Department, the Comptroller of the Currency and the Federal Deposit Insurance Corporation, under such conditions as they may prescribe, to make available to the Commission such reports, records or other information as they may have available with respect to the undersigned as a prospective trustee under an indenture to be qualified under the aforesaid Trustee Indenture Act of 1939 and to make through their examiners or other employees for the use of the Commission, examinations of the undersigned prospective Trustee.

The undersigned also, pursuant to Section 321(b) of said Trust Indenture Act of 1939, consents that reports of examination by the Federal, State, Territorial or District authorities may be furnished by such authorities to the Commission upon request therefor.

Dated this 11th day of December , 1998.

Chase Manhattan Trust Company,
National Association

By: /s/ [ILLEGIBLE]^^

Timothy J. Vara
Vice President

Chase Manhattan Trust Company, National Association
Statement of Condition

December 31, 2000

	(\$000)
<hr style="border-top: 1px dashed black;"/>	
Assets	
Cash and Due From Banks	\$ 17,999
Securities Available for Sale	4,857
Premises and Equipment	3,035
Accounts Receivable	8,764
Intangible Assets	177,440
<hr style="border-top: 1px dashed black;"/>	
Total Assets	\$212,095
<hr style="border-top: 3px double black;"/>	
Liabilities	
Sundry Liabilities and Accrued Expenses	\$ 11,303
<hr style="border-top: 1px dashed black;"/>	
Stockholder's Equity	
Common Stock	\$ 5,000
Surplus	179,892
Retained Earnings	15,900
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Total Stockholder's Equity	\$200,792
<hr style="border-top: 1px dashed black;"/>	
Total Liabilities and Stockholder's Equity	\$212,095
<hr style="border-top: 3px double black;"/>	