

Prepared by: Leslie Zimberg Martin
701 Ninth Street, NW - Suite 1220
Washington, D.C. 20068
Phone (202) 872-2585

Return to: Leslie Zimberg Martin
Associate General Counsel - PHI
701 Ninth Street, NW - Suite 1220
Washington, D.C. 20068
Phone (202) 872-2585

POTOMAC ELECTRIC POWER COMPANY

701 Ninth Street, N.W., Washington, D.C.

TO

THE BANK OF NEW YORK

101 Barclay Street, New York, NY

as Trustee

Supplemental Indenture

Dated as of March 24, 2008

Supplemental to Mortgage and Deed of Trust

Dated July 1, 1936

FIRST MORTGAGE BONDS, 6.50% COLLATERAL SERIES 2 DUE NOVEMBER 15, 2037

POTOMAC ELECTRIC POWER COMPANY

SUPPLEMENTAL INDENTURE DATED AS OF MARCH 24, 2008

TABLE OF CONTENTS*

	PAGE
Parties	1
Recitals	1
PART I	
Description of Bonds of the Second 2037 Series	
Section 1. General description of Bonds of the Second 2037 Series	5
Section 2. Form of face of Bond of the Second 2037 Series	6
Form of Trustee's certificate	
Text appearing on reverse side of Bond of 2037 Series	
Section 3. Denominations of Bonds of the Second 2037 Series	9
Section 4. Execution and form of temporary Bonds of the Second 2037 Series	9
PART II	
Issue of Bonds	
Section 1. Limitation as to principal amount	10
Section 2. Issue of Bonds of the Second 2037 Series	10
PART III	
Redemption and Cancellation of Bonds	
Section 1. Bonds of the Second 2037 Series redeemable	10
Section 2. Event of Default under Senior Note Indenture	11
Section 3. Occurrence of Release Date	11
Section 4. Cancellation	11

The Table of Contents is not part of the Supplemental Indenture and should not be considered as such. It is included herein only for purposes of convenient reference.

PART IV

Additional Particular Covenants of the Company

- | | | |
|------------|--|----|
| Section 1. | Company not to withdraw moneys pursuant to Section 2 of Article VIII in excess of an amount equal to principal amount of issued refundable bonds | 12 |
| Section 2. | No property additions made on or prior to December 31, 1946 to be used for any purpose under the Indenture | 12 |

PART V

- | | | |
|--|--|----|
| | Amendment of Indenture to Permit Qualification Under Trust Indenture Act of 1939 | 12 |
|--|--|----|

PART VI

- | | | |
|--|-------------|----|
| | The Trustee | 12 |
|--|-------------|----|

PART VII

- | | | |
|--|--------------------------|----|
| | Miscellaneous Provisions | 13 |
|--|--------------------------|----|

Execution of Supplemental Indenture in counterparts
Appointment of attorneys-in-fact by parties
Testimonium
Execution
Company's Acknowledgments
Trustee's Acknowledgments

SUPPLEMENTAL INDENTURE, dated as of the twenty-fourth day of March, two thousand eight (2008), made by and between Potomac Electric Power Company, a corporation organized and existing under the laws of the District of Columbia and a domestic corporation of the Commonwealth of Virginia (hereinafter sometimes called the "Company"), party of the first part, and The Bank of New York, a New York banking corporation organized and existing under the laws of the State of New York (hereinafter sometimes called the "Trustee"), as trustee under the Mortgage and Deed of Trust dated July 1, 1936, hereinafter mentioned, party of the second part;

WHEREAS, the Company has heretofore executed and delivered its Mortgage and Deed of Trust, dated July 1, 1936 (hereinafter sometimes referred to as the "Original Indenture"), to The Riggs National Bank of Washington, D.C., as trustee, to secure an issue of First Mortgage Bonds of the Company, issuable in series; and

WHEREAS, the Trustee has succeeded The Riggs National Bank of Washington, D.C. as trustee under the Original Indenture pursuant to Article XIII, Section 3 thereof; and

WHEREAS, pursuant to the terms and provisions of the Original Indenture, indentures supplemental thereto dated as of July 1, 1936, December 1, 1939, August 1, 1940, August 1, 1942, January 1, 1948, May 1, 1949, May 1, 1950, March 1, 1952, May 15, 1953, May 16, 1955, June 1, 1956, December 1, 1958, November 16, 1959, December 1, 1960, February 15, 1963, May 15, 1964, April 1, 1966, May 1, 1967, February 15, 1968, March 15, 1969, February 15, 1970, August 15, 1970, September 15, 1972, April 1, 1973, January 2, 1974, August 15, 1974, August 15, 1974, June 15, 1977, July 1, 1979, June 16, 1981, June 17, 1981, December 1, 1981, August 1, 1982, October 1, 1982, April 15, 1983, November 1, 1985, March 1, 1986, November 1, 1986, March 1, 1987, September 16, 1987, May 1, 1989, August 1, 1989, April 5, 1990, May 21, 1991, May 7, 1992, September 1, 1992, November 1, 1992, March 1, 1993, March 2, 1993, July 1, 1993, August 20, 1993, September 29, 1993, September 30, 1993, October 1, 1993, February 10, 1994, February 11, 1994, March 10, 1995, September 6, 1995, September 7, 1995, October 2, 1997, March 17, 1999, November 17, 2003, March 16, 2004, May 24, 2005, April 1, 2006 and November 13, 2007 have been heretofore entered into between the Company and the Trustee to provide, respectively, for the creation of the first through the sixty-ninth series of Bonds thereunder and, in the case of the supplemental indentures dated January 1, 1948, March 1, 1952, May 15, 1953, May 16, 1955, June 1, 1956, September 15, 1972, July 1, 1979, June 17, 1981, November 1, 1985, September 16, 1987, May 1, 1989, May 21, 1991, May 7, 1992, July 1, 1993, October 2, 1997 and one of the supplemental indentures dated August 15, 1974, to convey additional property; and

WHEREAS, \$20,000,000 principal amount of Bonds of the 3-1/4% Series due 1966 (the first series), \$5,000,000 principal amount of Bonds of the 3-1/4% Series due 1974 (the second series), \$10,000,000 principal amount of Bonds of the 3-1/4% Series due 1975 (the third series), \$5,000,000 principal amount of Bonds of the 3-1/4% Series due 1977 (the fourth series), \$15,000,000 principal amount of Bonds of the 3% Series due 1983 (the fifth series), \$10,000,000 principal amount of Bonds of the 2-7/8% Series due 1984 (the sixth series), \$30,000,000 principal amount of Bonds of the 2-3/4% Series due 1985 (the seventh series), \$15,000,000 principal amount of Bonds of the 3-1/4% Series due 1987 (the eighth series), \$10,000,000 principal amount of Bonds of the 3-7/8% Series due 1988 (the ninth series), \$10,000,000

principal amount of Bonds of the 3-3/8% Series due 1990 (the tenth series), \$10,000,000
principal amount of Bonds of the 3-5/8% Series due 1991 (the eleventh series), \$25,000,000
principal amount of Bonds of the 4-5/8% Series due 1993 (the twelfth series), \$15,000,000
principal amount of Bonds of the 5-1/4% Series due 1994 (the thirteenth series), \$40,000,000
principal amount of Bonds of the 5% Series due 1995 (the fourteenth series), \$50,000,000
principal amount of Bonds of the 4-3/8% Series due 1998 (the fifteenth series), \$45,000,000
principal amount of Bonds of the 4-1/2% Series due 1999 (the sixteenth series), \$15,000,000
principal amount of Bonds of the 5-1/8% Series due 2001 (the seventeenth series), \$35,000,000
principal amount of Bonds of the 5-7/8% Series due 2002 (the eighteenth series), \$40,000,000
principal amount of Bonds of the 6-5/8% Series due 2003 (the nineteenth series), \$45,000,000
principal amount of Bonds of the 7-3/4% Series due 2004 (the twentieth series), \$35,000,000
principal amount of Bonds of the 8.85% Series due 2005 (the twenty-first Series), \$70,000,000
principal amount of Bonds of the 9-1/2% Series due August 15, 2005 (the twenty-second series),
\$50,000,000 principal amount of Bonds of the 7-3/4% Series due 2007 (the twenty-third series),
\$25,000,000 principal amount of Bonds of the 5-5/8% Series due 1997 (the twenty-fourth series),
\$100,000,000 principal amount of Bonds of the 8-3/8% Series due 2009 (the twenty-fifth series),
\$50,000,000 principal amount of Bonds of the 10-1/4% Series due 1981 (the twenty-sixth series),
\$50,000,000 principal amount of Bonds of the 10-3/4% Series due 2004 (the twenty-seventh
series), \$38,300,000 principal amount of Bonds of the 6-1/8% Series due 2007 (the twenty-
eighth series), \$15,000,000 principal amount of Bonds of the 6-1/2% Series due 2004 (the
twenty-ninth series), \$20,000,000 principal amount of Bonds of the 6-1/2% Series due 2007 (the
thirtieth series), \$7,500,000 principal amount of Bonds of the 6-5/8% Series due 2009 (the thirty-
first series), \$30,000,000 principal amount of Bonds of the Floating Rate Series due 2010 (the
thirty-second series), \$50,000,000 principal amount of Bonds of the 14-1/2% Series due 1991
(the thirty-third series), \$50,000,000 principal amount of Bonds of the Adjustable Rate Series
due 2001 (the thirty-fourth series), \$60,000,000 principal amount of Bonds of the 14-1/4% Series
due 1992 (the thirty-fifth series), \$50,000,000 principal amount of Bonds of the 11-7/8% Series
due 1989 (the thirty-sixth series), \$37,000,000 principal amount of Bonds of the 8-3/4% Series
due 2010 (the thirty-seventh series), \$75,000,000 principal amount of Bonds of the 11-1/4%
Series due 2015 (the thirty-eighth series), \$75,000,000 principal amount of Bonds of the 9-1/4%
Series due 2016 (the thirty-ninth series), \$75,000,000 principal amount of Bonds of the 8-3/4%
Series due 2016 (the fortieth series), \$75,000,000 principal amount of Bonds of the 8-1/4%
Series due 2017 (the forty-first series), \$75,000,000 principal amount of Bonds of the 9% Series
due 1990 (the forty-second series), \$75,000,000 principal amount of Bonds of the 9-3/4% Series
due 2019 (the forty-third series), \$75,000,000 principal amount of Bonds of the 8-5/8% Series
due 2019 (the forty-fourth series), \$100,000,000 principal amount of Bonds of the 9% Series due
2000 (the forty-fifth series), \$100,000,000 principal amount of Bonds of the 9% Series due 2021
(the forty-sixth series), \$75,000,000 principal amount of Bonds of the 8-1/2% Series due 2027
(the forty-seventh series); \$78,000,000 principal amount of Bonds of the 6-1/2% Series due 2008
(the fiftieth series); \$40,000,000 principal amount of Bonds of the 7-1/2% Series due 2028 (the
fifty-first series); \$100,000,000 principal amount of Bonds of the 7-1/4% Series due 2023 (the
fifty-second series); \$100,000,000 principal amount of Bonds of the 6-7/8% Series due 2023 (the
fifty-third series); \$50,000,000 principal amount of Bonds of the 5-5/8% Series due 2003 (the
fifty-fourth series); \$75,000,000 principal amount of Bonds of the 6-7/8% Series due 2024 (the
fifty-sixth series); \$100,000,000 principal amount of Bonds of the 6-1/2% series due 2005 (the
sixtieth series); \$75,000,000 principal amount of Bonds of the 7-3/8% Series due 2025 (the sixty-

first series); \$175,000,000 principal amount of Bonds of the 6-1/4% Series due 2007 (the sixty-second series); and \$270,000,000 principal amount of Bonds of the 6% Series due 2004 (the sixty-third series) have been heretofore redeemed and retired and there are now issued and outstanding under the Original Indenture and under the supplemental indentures referred to above: \$30,000,000 principal amount of Bonds of the 6% Series due 2022 (the forty-eighth series); \$37,000,000 principal amount of Bonds of the 6-3/8% Series due 2023 (the forty-ninth series); \$50,000,000 principal amount of Bonds of the 5-7/8% Series due 2008 (the fifty-fifth series); \$42,500,000 principal amount of Bonds of the 5-3/8% Series due 2024 (the fifty-seventh series); \$38,300,000 principal amount of Bonds of the 5-3/8% Series due 2024 (the fifty-eighth series); \$16,000,000 principal amount of Bonds of the 5-3/4% Series due 2010 (the fifty-ninth series); \$200,000,000 principal amount of Bonds of the 4.95% Series due 2013 (the sixty-fourth series); \$175,000,000 principal amount of Bonds of the 4.65% Series due 2014 (the sixty-fifth series); \$100,000,000 principal amount of Bonds of the 5.75% Series due 2034 (the sixty-sixth series); \$175,000,000 principal amount of Bonds of the 5.40% Series due 2035 (the sixty-seventh series); \$109,500,000, principal amount of Bonds of the Medco Collateral Series due 2022 (the sixty-eighth series); and \$250,000,000 principal amount of Bonds of the 6.50% Series due 2037 (the sixty-ninth series); and

WHEREAS, for the purpose of conforming the Original Indenture to the standards prescribed by the Trust Indenture Act of 1939 or otherwise modifying certain of the provisions of the Original Indenture, indentures supplemental thereto dated December 10, 1939, August 10, 1942, October 15, 1942, April 1, 1966, June 16, 1981, June 17, 1981, December 1, 1981, August 1, 1982, October 1, 1982, April 15, 1983, November 1, 1985, March 1, 1986, November 1, 1986, March 1, 1987, September 16, 1987, May 1, 1989, August 1, 1989, April 5, 1990, May 21, 1991, May 7, 1992, September 1, 1992, November 1, 1992, March 1, 1993, March 2, 1993, July 1, 1993, August 20, 1993, September 29, 1993, September 30, 1993, October 1, 1993, February 10, 1994, February 11, 1994, March 10, 1995, September 6, 1995, September 7, 1995, October 2, 1997, March 17, 1999, November 17, 2003, March 16, 2004, May 24, 2005, April 1, 2006 and November 13, 2007 have been heretofore entered into between the Company and the Trustee, and for the purpose of conveying additional property, indentures supplemental thereto dated July 15, 1942, October 15, 1947, December 31, 1948, December 31, 1949, February 15, 1951, February 16, 1953, March 15, 1954, March 15, 1955, March 15, 1956, April 1, 1957, May 1, 1958, May 1, 1959, May 2, 1960, April 3, 1961, May 1, 1962, May 1, 1963, April 23, 1964, May 3, 1965, June 1, 1966, April 28, 1967, July 3, 1967, May 1, 1968, June 16, 1969, May 15, 1970, September 1, 1971, June 17, 1981, November 1, 1985, September 16, 1987, May 1, 1989, May 21, 1991, May 7, 1992, July 1, 1993 and October 2, 1997 have been heretofore entered into between the Company and the Trustee, and for the purpose of better securing and protecting the Bonds then or thereafter issued and confirming the lien of the Original Indenture, an indenture dated October 15, 1942 supplemental thereto has been heretofore entered into between the Company and the Trustee; the Original Indenture as heretofore amended and supplemented being hereinafter referred to as the “Original Indenture as amended”; and

WHEREAS, the Company is entitled to have authenticated and delivered additional Bonds in substitution for refundable Bonds, upon compliance with the provisions of Section 7 of Article III of the Original Indenture as amended; and

WHEREAS, the Company has entered into an Indenture, dated as of November 17, 2003 (as amended, supplemented or modified to the date hereof, the “Senior Note Indenture”), with The Bank of New York, as trustee (the “Senior Note Trustee”), providing for the issuance thereunder of senior debt securities (the “Senior Notes”); and

WHEREAS, the Company has determined to issue under and pursuant to the Senior Note Indenture an additional amount of the Company’s 6.50% Senior Notes due November 15, 2037 in the principal amount of \$250,000,000 (hereinafter called “Senior Notes of 2037 Series”); and

WHEREAS, pursuant to Article Thirteen of the Senior Note Indenture, the Company wishes to issue to the Senior Note Trustee, for the benefit of the holders of the Senior Notes of 2037 Series, a new series of Bonds under the Original Indenture as amended (i) that have an aggregate principal amount equal to the principal amount of the Senior Notes of 2037 Series, (ii) that have a stated maturity date that is the same as the stated maturity of the Senior Notes of 2037 Series, (iii) that bear interest at a rate equal to the interest rate borne by the Senior Notes of 2037 Series, (iv) that have interest payment dates that are the same as the interest payment dates of the Senior Notes of 2037 Series, (v) that contain the same redemption provisions as the Senior Notes of 2037 Series and (vi) that in all other material respects conform as nearly as is practicable to the terms of the Senior Notes of 2037 Series; and

WHEREAS, for such purposes the Company has determined to issue a seventieth series of Bonds under the Original Indenture as amended in the principal amount of \$250,000,000, to be known as First Mortgage Bonds, 6.50% Collateral Series 2 due 2037 (hereinafter called “Bonds of the Second 2037 Series”); and

WHEREAS, the Bonds of the Second 2037 Series and the \$250,000,000 principal amount of First Mortgage Bonds, 6.50% Collateral Series due 2037 delivered by the Company to the Senior Note Trustee on November 16, 2007, shall collectively secure the Senior Notes of 2037 Series; and

WHEREAS, the Company intends to use the net proceeds of the Senior Notes of 2037 Series to provide funding to (a) repay short term debt of the Company, \$78,000,000 of which was issued to repay at maturity \$78,000,000 in principal amount of Bonds of the 6-1/2% Series due 2008, (b) to repay \$50,000,000 in principal amount of Bonds of the 5-7/8% Series due 2008 at maturity, and (c) otherwise for general corporate purposes; and

WHEREAS, the Company, in the exercise of the powers and authority conferred upon and reserved to it under the provisions of the Original Indenture as amended and pursuant to appropriate resolutions of its Board of Directors, has duly resolved and determined to make, execute and deliver to the Trustee a supplemental indenture in the form hereof for the purposes herein provided; and

WHEREAS, all conditions and requirements necessary to make this Supplemental Indenture a valid, binding and legal instrument have been done, performed and fulfilled, and the execution and delivery hereof have been in all respects duly authorized;

NOW, THEREFORE, THIS INDENTURE WITNESSETH:

That Potomac Electric Power Company, in consideration of the premises and of One Dollar to it duly paid by the Trustee at or before the ensembling and delivery of these presents, and for other valuable considerations, the receipt whereof is hereby acknowledged, hereby covenants, declares and agrees with the Trustee and its successors in the trust under the Original Indenture as amended for the benefit of those who hold the Bonds and coupons, or any of them, issued or to be issued hereunder or under the Original Indenture as amended, as follows:

PART I.

DESCRIPTION OF BONDS OF THE SECOND 2037 SERIES.

SECTION 1. The Bonds of the Second 2037 Series shall, subject to the provisions of Section 1 of Article II of the Original Indenture as amended, be designated as “First Mortgage Bonds, 6.50% Collateral Series 2 due November 15, 2037” of the Company. The Bonds of the Second 2037 Series shall be executed, authenticated and delivered in accordance with the provisions of, and shall in all respects be subject to, all of the terms, conditions and covenants of the Original Indenture as amended, except in so far as the terms and provisions of the Original Indenture as amended are amended or modified by this Supplemental Indenture.

The Bonds of the Second 2037 Series shall mature on November 15, 2037, and shall bear interest at such rate as is payable from time to time on the Senior Notes of 2037 Series, payable at such times as interest is payable on such Senior Notes of 2037 Series, until the principal thereof is paid or made available for payment. Interest on the Bonds of the Second 2037 Series will accrue during the same periods as interest accrues from time to time on the Senior Notes of 2037 Series. The Bonds of the Second 2037 Series shall be payable as to principal and interest in lawful money of the United States of America, and shall be payable (as well the interest as the principal thereof) at the agency of the Company in the Borough of Manhattan, The City of New York.

Each Bond of the Second 2037 Series is to be issued to and registered in the name of the Senior Note Trustee, to be owned and held by the Senior Note Trustee under the terms of the Senior Note Indenture for the benefit of the holders of the Senior Notes of 2037 Series in order to secure the Company’s obligations under the Senior Notes of 2037 Series. The Bonds of the Second 2037 Series shall not be assignable or transferable except as permitted or required by Section 1307 of the Senior Note Indenture.

Upon any payment or deemed payment of the principal of, premium, if any, and interest on all or any portion of the Senior Notes of 2037 Series (and to the extent of such payment or deemed payment), whether at maturity or prior to maturity by redemption or otherwise, or upon provision for the payment thereof having been made in accordance with Section 702 of the Senior Note Indenture, the obligation of the Company to make the corresponding payment of principal, premium, if any, or interest on the Bonds of the Second 2037 Series shall be deemed to be satisfied and discharged. The Trustee may at any time and all times conclusively presume that the obligation of the Company to make payments with respect to the principal of, premium, if any, and interest on the Bonds of the Second 2037 Series, so far as such payments at the time have become due, has been fully satisfied and discharged pursuant to the foregoing sentence unless and until the

Trustee shall have received a written notice from the Senior Note Trustee signed by one of its officers (i) stating that timely payment of principal of or premium or interest on, the Senior Notes of 2037 Series has not been so made or deemed made and (ii) providing the details of such nonpayment.

SECTION 2. The Bonds of the Second 2037 Series, and the Trustee's certificate to be endorsed on the Bonds of the Second 2037 Series, shall be substantially in the following forms, respectively:

[FORM OF FACE OF BOND OF SECOND 2037 SERIES]

THIS BOND IS NOT TRANSFERABLE EXCEPT TO A SUCCESSOR TRUSTEE UNDER THE INDENTURE, DATED NOVEMBER 17, 2003, AS AMENDED AND SUPPLEMENTED, BETWEEN POTOMAC ELECTRIC POWER COMPANY AND THE BANK OF NEW YORK, AS TRUSTEE

POTOMAC ELECTRIC POWER COMPANY

(A District of Columbia and Virginia corporation)

First Mortgage Bond, 6.50% Collateral Series 2 Due November 15, 2037

No.

POTOMAC ELECTRIC POWER COMPANY, a corporation organized and existing under the laws of the District of Columbia and a domestic corporation of the Commonwealth of Virginia (hereinafter called the "Company", which term shall include any successor corporation as defined in the Amended Indenture hereinafter referred to), for value received, hereby promises to pay to The Bank of New York, as trustee, or registered assigns, the sum of _____ dollars, on the fifteenth day of November 2037, in lawful money of the United States of America, and to pay interest on said principal sum at such rate as is payable from time to time on the corresponding Senior Notes of 2037 Series (as hereinafter defined), payable at such times as interest is payable on such Senior Notes of 2037 Series, in like money, until the Company's obligation with respect to the payment of such principal shall have been discharged. Interest on this Bond will accrue during the same periods as interest accrues from time to time on the Senior Notes of 2037 Series. Both principal of, and interest on, this Bond are payable at the agency of the Company in the Borough of Manhattan, The City of New York.

Under an Indenture dated as of November 17, 2003 (as amended, supplemented or modified to the date hereof, hereinafter sometimes referred to as the "Senior Note Indenture"), between Potomac Electric Power Company and The Bank of New York, as trustee (hereinafter sometimes called the "Senior Note Trustee"), the Company will issue, concurrently with the issuance of this Bond, an additional amount of the Company's 6.50% Senior Notes due 2037 series of securities under the Senior Note Indenture (the "Senior Notes of 2037 Series"). Pursuant to Article Thirteen of the Senior Note Indenture, this Bond is issued to the Senior Note Trustee to secure any and all obligations of the Company under the Senior Notes of 2037 Series.

Payment or deemed payment of principal of, or premium, if any, or interest on, the Senior Notes of 2037 Series shall constitute payments on this Bond.

Reference is made to the further provisions of this Bond set forth on the reverse hereof, and such further provisions shall for all purposes have the same effect as though fully set forth at this place.

This Bond shall not be entitled to any benefit under the Amended Indenture (as defined herein) or any indenture supplemental thereto, or become valid or obligatory for any purpose, until The Bank of New York, the Trustee under the Amended Indenture, or a successor trustee thereto under the Amended Indenture, shall have signed the form of certificate endorsed hereon.

IN WITNESS WHEREOF, Potomac Electric Power Company has caused this Bond to be signed in its name by the signature (or a facsimile thereof) of its President or a Vice President, and its corporate seal (or a facsimile thereof) to be hereto affixed and attested by the facsimile signature of its Secretary or an Assistant Secretary.

POTOMAC ELECTRIC POWER COMPANY

By _____
Vice President

Attest:

Secretary

[FORM OF TRUSTEE'S CERTIFICATE]

This Bond is one of the Bonds, of the series designated therein, described in the within-mentioned Amended Indenture and the Supplemental Indenture dated as of March 24, 2008.

Dated: The Bank of New York, as
Trustee.

By _____
Authorized Signatory

[TEXT APPEARING ON REVERSE SIDE OF BOND OF SECOND 2037 SERIES]

This Bond is one of a duly authorized issue of Bonds of the Company (hereinafter called the "Bonds") in unlimited aggregate principal amount, of the series hereinafter specified, all issued and to be issued under and equally secured (except in so far as any purchase or sinking fund or analogous provisions for any particular series of Bonds, established by any indenture supplemental to the Amended Indenture hereinafter mentioned, may afford additional security for such Bonds) by a mortgage and deed of trust, dated July 1, 1936, executed by the Company to The Bank of New York as successor to The Riggs National Bank of Washington, D.C. (herein

called the “Trustee”), as trustee, as amended by indentures supplemental thereto dated December 10, 1939, August 10, 1942, October 15, 1942, April 1, 1966, June 16, 1981, June 17, 1981, December 1, 1981, August 1, 1982, October 1, 1982, April 15, 1983, November 1, 1985, March 1, 1986, November 1, 1986, March 1, 1987, September 16, 1987, May 1, 1989, August 1, 1989, April 5, 1990, May 21, 1991, May 7, 1992, September 1, 1992, November 1, 1992, March 1, 1993, March 2, 1993, July 1, 1993, August 20, 1993, September 29, 1993, September 30, 1993, October 1, 1993, February 10, 1994, February 11, 1994, March 10, 1995, September 6, 1995, September 7, 1995, October 2, 1997, March 17, 1999, November 17, 2003, March 16, 2004, May 24, 2005, April 1, 2006 and November 13, 2007 (said mortgage and deed of trust, as so amended, being herein called the “Amended Indenture”) and all indentures supplemental thereto, to which Amended Indenture and supplemental indentures reference is hereby made for a description of the properties mortgaged and pledged, the nature and extent of the security, the rights of the owners of the Bonds and of the Trustee in respect thereto, and the terms and conditions upon which the Bonds are, and are to be, secured. To the extent permitted by, and as provided in, the Amended Indenture, modifications or alterations of the Amended Indenture, or of any indenture supplemental thereto, and of the rights and obligations of the Company and of the holders of the Bonds may be made with the consent of the Company by an affirmative vote of not less than 60% in amount of the Bonds entitled to vote then outstanding, at a meeting of Bondholders called and held as provided in the Amended Indenture, and by an affirmative vote of not less than 60% in amount of the Bonds of any series entitled to vote then outstanding and affected by such modification or alteration, in case one or more but less than all of the series of Bonds then outstanding under the Amended Indenture are so affected; provided, however, that no such modification or alteration shall be made which will affect the terms of payment of the principal of, or interest on, this Bond, which are unconditional, or which reduces the percentage of Bonds the affirmative vote of which is required for the making of such modifications or alterations.

This Bond is one of a series designated as the “First Mortgage Bonds, 6.50% Collateral Series 2 due November 15, 2037 (herein called the “Bonds of the Second 2037 Series”) of the Company, issued under and secured by the Amended Indenture and all indentures supplemental thereto and described in the supplemental indenture (herein called the “New Supplemental Indenture”), dated as of March 24, 2008, between the Company and the Trustee, supplemental to the Amended Indenture.

Upon any payment or deemed payment of the principal of, premium, if any, and interest on all or any portion of the Senior Notes of 2037 Series (and to the extent of such payment or deemed payment), whether at maturity or prior to maturity by redemption or otherwise, or upon provision for the payment thereof having been made in accordance with Section 702 of the Senior Note Indenture, the obligation of the Company to make the corresponding payment of principal, premium, if any, or interest on the Bonds of the Second 2037 Series shall be deemed to be satisfied and discharged. The Trustee may at any time and all times conclusively presume that the obligation of the Company to make payments with respect to the principal of, premium, if any, and interest on the Bonds of the Second 2037 Series, so far as such payments at the time have become due, has been fully satisfied and discharged pursuant to the foregoing sentence unless and until the Trustee shall have received a written notice from the Senior Note Trustee signed by one of its officers stating (i) that timely payment of principal of,

or premium or interest on, the Senior Notes of 2037 Series has not been so made or deemed made and (ii) providing the details of such nonpayment.

This Bond is redeemable on such dates, in such principal amounts and at such redemption prices as the Senior Notes of 2037 Series are redeemable, and this Bond shall be redeemed upon written demand of the Senior Note Trustee following the occurrence of an Event of Default under the Senior Note Indenture and the acceleration of the Senior Notes of 2037 Series as provided in Section 802(a) or 802(b) of the Senior Note Indenture, all as provided in this New Supplemental Indenture.

This Bond shall not be assignable or transferable except as permitted or required by Section 1307 of the Senior Note Indenture.

As provided in Section 1308 of the Senior Note Indenture, from and after the Release Date (as defined in the Senior Note Indenture), the obligation of the Company with respect to this Bond shall be deemed to be satisfied and discharged, this Bond shall cease to secure in any manner the Senior Notes of 2037 Series or any other senior notes outstanding under the Senior Note Indenture and, pursuant to Section 1308 of the Senior Note Indenture, the Senior Note Trustee shall forthwith deliver this Bond to the Company or the Trustee (as directed by Company Order (as defined in the Senior Note Indenture)).

In case an event of default, as defined in the Amended Indenture, shall occur, the principal of all the Bonds at any such time outstanding under the Amended Indenture may be declared or may become due and payable, upon the conditions and in the manner and with the effect provided in the Amended Indenture. The Amended Indenture provides that such declaration may in certain events be waived by the holders of a majority in principal amount of the Bonds entitled to vote then outstanding.

No recourse shall be had for the payment of the principal of, or the interest on, this Bond, or for any claim based hereon or otherwise in respect hereof or of the Amended Indenture or any indenture supplemental thereto, against any incorporator, or against any stockholder, director or officer, past, present or future, of the Company or of any predecessor or successor corporation, either directly or through the Company or any such predecessor or successor corporation, whether for amounts unpaid on stock subscriptions or by virtue of any constitution, statute or rule of law, or by the enforcement of any assessment or penalty or otherwise, all such liability, whether at common law, in equity, by any constitution, statute or otherwise, of incorporators, stockholders, directors or officers being released by every owner hereof by the acceptance of this Bond and as part of the consideration for the issue hereof, and being likewise released by the terms of the Amended Indenture.

[END OF FORM]

SECTION 3. The Bonds of the Second 2037 Series shall be registered Bonds without coupons in denominations of any multiple of \$1,000, numbered consecutively upwards from R-1.

SECTION 4. Until Bonds of the Second 2037 Series in definitive form are ready for delivery, the Company may execute, and upon its request in writing the Trustee shall

authenticate and deliver, in lieu thereof, Bonds for such series in temporary form, as provided in Section 9 of Article II of the Original Indenture as amended.

PART II.

Issue of Bonds.

SECTION 1. Except for Bonds of the Second 2037 Series issued pursuant to Section 13 of Article II of the Original Indenture as amended, the principal amount of Bonds of the Second 2037 Series which may be authenticated and delivered hereunder is limited to \$250,000,000 aggregate principal amount.

SECTION 2. Bonds of the Second 2037 Series, in the aggregate principal amount permitted in Section 1 of this Part II, may at any time subsequent to the execution hereof be executed by the Company and delivered to the Trustee and shall be authenticated by the Trustee and delivered (either before or after the recording hereof) to or upon the order of the Company evidenced by a writing or writings, signed by its President or one of its Vice Presidents and its Treasurer or one of its Assistant Treasurers, at such time or times as may be requested by the Company subsequent to the receipt by the Trustee of:

(1) the certified resolution and the officers' certificate required by Section 3(a) and Section 3(b) of Article III of the Original Indenture as amended;

(2) the opinion of counsel required by Section 3(c) of Article III of the Original Indenture as amended;

(3) cash, if any, in the amount required to be deposited by Section 3(d) of Article III of the Original Indenture as amended, which shall be held and applied by the Trustee as provided in said Section 3(d);

(4) the officer's certificate required by Section 7(a) of Article III of the Original Indenture as amended; and

(5) the certificates and opinions required by Article XVIII of the Original Indenture as amended.

PART III.

Redemption and Cancellation of Bonds.

SECTION 1. Bonds of the Second 2037 Series shall not be redeemable except on the respective dates, in the respective principal amounts and for the respective redemption prices that correspond to the redemption dates for, the principal amounts to be redeemed of, and the redemption prices for, the Senior Notes of 2037 Series. Otherwise, the Bonds of the Second 2037 Series shall not be redeemable except as set forth in Section 2 herein.

In the event the Company redeems or delivers to the Senior Note Trustee for cancellation any Senior Notes of 2037 Series prior to maturity in accordance with the provisions of the Senior Note Indenture, Bonds of the Second 2037 Series in principal amounts corresponding to the Senior Notes of 2037 Series so redeemed or cancelled shall be deemed to have been redeemed, and the Senior Note Trustee is required to deliver to the Company Bonds of the Second 2037 Series so redeemed, all as provided in Section 1308 of the Senior Note Indenture. The Company agrees to give the Trustee written notice of any such redemption of the Senior Notes of 2037 Series on or before the date fixed for any such redemption. The Senior Note Trustee, as holder of all Bonds of the Second 2037 Series then outstanding, shall be deemed to have waived notice of any such redemption of such Bonds of the Second 2037 Series.

SECTION 2. Upon the occurrence of an Event of Default under the Senior Note Indenture and the acceleration of the Senior Notes of 2037 Series pursuant to Section 802(a) or 802(b) thereof, the Company shall redeem the Bonds of the Second 2037 Series in whole upon receipt by the Company of a written demand (hereinafter called a "Redemption Demand") from the Senior Note Trustee stating that there has occurred under the Senior Note Indenture both an Event of Default and a declaration of acceleration of payment of principal, accrued interest and premium, if any, on the Senior Notes of 2037 Series pursuant to Section 802(a) or 802(b) thereof, specifying the last date to which interest on such notes has been paid or deemed paid (such date being hereinafter referred to as the "Initial Interest Accrual Date") and demanding redemption of Bonds of the Second 2037 Series. Each 2037 Series Redemption Demand also shall constitute a waiver by the Senior Note Trustee, as holder of all Bonds of the Second 2037 Series then outstanding, of notice of redemption of the Bonds of the Second 2037 Series. The Company waives any right it may have to prior notice of such redemption under the Original Indenture as amended. Upon presentation of the Bonds of the Second 2037 Series by the Senior Note Trustee to the Trustee, the Bonds of the Second 2037 Series shall be redeemed at a redemption price equal to the principal amount thereof plus accrued interest thereon from the Initial Interest Accrual Date to the date of the Redemption Demand; provided, however, that in the event of a rescission of acceleration of Senior Notes of 2037 Series pursuant to Section 802(e) of the Senior Note Indenture, then any Redemption Demand shall thereby be deemed to be rescinded by the Senior Note Trustee; but no such rescission or annulment shall extend to or affect any subsequent default or impair any right consequent thereon.

SECTION 3. As provided in Section 1303 of the Senior Note Indenture, from and after the Release Date (as defined in the Senior Note Indenture), the obligations of the Company with respect to the Bonds of the Second 2037 Series shall be deemed to be satisfied and discharged, the Bonds of the Second 2037 Series shall cease to secure in any manner the Senior Notes of 2037 Series or any other senior notes outstanding under the Senior Note Indenture and, pursuant to Section 1308 of the Senior Note Indenture, the Senior Note Trustee shall forthwith deliver the Bonds of the Second 2037 Series to the Company or the Trustee (as directed by Company Order (as defined in the Senior Note Indenture)).

SECTION 4. All Bonds delivered to or redeemed by the Trustee pursuant to the provisions of this Part III shall forthwith be cancelled.

PART IV.

Additional Particular Covenants of the Company.

The Company hereby covenants, warrants and agrees that so long as any Bonds of the Second 2037 Series are outstanding:

SECTION 1. The Company will not withdraw, pursuant to the provisions of Section 2 of Article VIII of the Original Indenture as amended, any moneys held by the Trustee as part of the trust estate in excess of an amount equal to the aggregate principal amount of such of the refundable Bonds as were theretofore issued by the Company; and that upon any such withdrawal by the Company refundable Bonds equal in aggregate principal amount to the amount so withdrawn shall be deemed to have been made the basis of such withdrawal.

SECTION 2. Property additions purchased, constructed or otherwise acquired on or before December 31, 1946 shall not be made the basis for the authentication and delivery of Bonds, or the withdrawal of cash, or the reduction of the amount of cash required to be paid to the Trustee under any provision of the Indenture.

PART V.

Amendment of Indenture to Permit Qualification Under Trust Indenture Act of 1939.

The Company and the Trustee, from time to time and at any time, without any vote or consent of the holders of the Bonds of the Second 2037 Series, may enter into such indentures supplemental to the Original Indenture as may or shall by them be deemed necessary or desirable to add to or modify or amend any of the provisions of the Original Indenture so as to permit the qualification of the Original Indenture under the Trust Indenture Act of 1939.

Except to the extent specifically provided herein, no provision of this Supplemental Indenture is intended to modify, and the parties hereto do hereby adopt and confirm, the provisions of Section 318(c) of the Trust Indenture Act of 1939 which amend and supersede provisions of the Original Indenture, as supplemented, in effect prior to November 15, 1990.

PART VI.

The Trustee.

The Trustee hereby accepts the trusts hereby declared and provided and agrees to perform the same upon the terms and conditions in the Original Indenture as amended set forth and upon the following terms and conditions:

The Trustee shall not be responsible in any manner whatsoever for or in respect of the validity or sufficiency of this Supplemental Indenture or the due execution hereof by the Company or for or in respect of the recitals contained herein, all of which recitals are made by the Company solely. In general, each and every term and condition contained in Article XIII of

the Original Indenture as amended shall apply to this Supplemental Indenture with the same force and effect as if the same were herein set forth in full, with such omissions, variations and modifications thereof as may be appropriate to make the same conform to this Supplemental Indenture.

PART VII.

Miscellaneous Provisions.

This Supplemental Indenture may be simultaneously executed in any number of counterparts, each of which when so executed shall be deemed to be an original; but such counterparts shall together constitute but one and the same instrument.

The Company hereby constitutes and appoints Anthony J. Kamerick, one of its Vice Presidents, to be its true and lawful attorney-in-fact, for it and in its name to appear before any officer authorized by law to take and certify acknowledgments of deeds to be recorded in the District of Columbia, in the State of Maryland, in the Commonwealth of Virginia, and in the Commonwealth of Pennsylvania and to acknowledge and deliver these presents as the act and deed of said Company.

The Bank of New York, hereby constitutes and appoints Cheryl L. Clarke, one of its Vice Presidents, to be its true and lawful attorney-in-fact, for it and in its name to appear before any officer authorized by law to take and certify acknowledgments of deeds to be recorded in the District of Columbia, in the State of Maryland, in the Commonwealth of Virginia, and in the Commonwealth of Pennsylvania and to acknowledge and deliver these presents as the act and deed of said The Bank of New York.

IN WITNESS WHEREOF, said Potomac Electric Power Company has caused this Supplemental Indenture to be executed on its behalf by its President or one of its Vice Presidents and its corporate seal to be hereto affixed and said seal and this Supplemental Indenture to be attested by its Secretary or one of its Assistant Secretaries; and said The Bank of New York, in evidence of its acceptance of the trust hereby created, has caused this Supplemental Indenture to be executed on its behalf by one of its Vice Presidents, and its corporate seal to be hereto affixed and said seal and this Supplemental Indenture to be attested by one of its Vice Presidents, all as of the 24th day of March, two thousand eight.

Potomac Electric Power Company

(Corporate Seal)

By /s/ A. J. KAMERICK
Anthony J. Kamerick
Vice President

Attested:

/s/ ELLEN S. ROGERS
Ellen Sheriff Rogers
Secretary

Signed, sealed and delivered by
Potomac Electric Power Company in
the presence of:

/s/ PAMELA HOLMAN

/s/ LESLIE ZIMBERG MARTIN
As Witnesses

The Bank of New York, as Trustee

(Corporate Seal)

By /s/ CHERYL L. CLARKE
Cheryl L. Clarke
Vice President

Attested:

/s/ MARY LaGUMINA
Mary LaGumina
Vice President

Signed, sealed and delivered by The
Bank of New York in the presence
of:

/s/ REMO REALE

/s/ EVA HO
As Witnesses

City of Washington,
District of Columbia, ss.:

I, Linda Epperly, a Notary Public in and for the District of Columbia, United States of America, do hereby certify that Anthony J. Kamerick and Ellen Sheriff Rogers, whose names as Vice President and Secretary, respectively, of Potomac Electric Power Company, a corporation, are signed to the foregoing and hereto attached deed, bearing date as of the 24th day of March, 2008, personally appeared this day before me in my District aforesaid and acknowledged themselves to be, respectively, a Vice President and the Secretary of Potomac Electric Power Company, and that they as such, being authorized so to do, executed the said deed by signing the name of Potomac Electric Power Company by Anthony J. Kamerick, as Vice President, and attested by Ellen Sheriff Rogers, as Secretary, and acknowledged the same before me in my District aforesaid and acknowledged the foregoing instrument to be the act and deed of Potomac Electric Power Company.

Given under my hand and official seal this 24th day of March, 2008.

(Notarial Seal)

/s/ LINDA J. EPPERLY
Notary Public
District of Columbia

My Commission Expires: January 1, 2010

City of Washington,
District of Columbia, ss.:

I, Linda Epperly, a Notary Public in and for the District of Columbia, United States of America, do hereby certify that Anthony J. Kamerick, a Vice President of Potomac Electric Power Company, a corporation, one of the parties to the foregoing instrument bearing date as of the 24th day of March, 2008, and hereto annexed, this day personally appeared before me in the City of Washington, the said Anthony J. Kamerick being personally well known to me as the person who executed the said instrument as a Vice President of and on behalf of said Potomac Electric Power Company and known to me to be the attorney-in-fact duly appointed therein to acknowledge and deliver said instrument on behalf of said corporation, and, as such attorney-in-fact, he acknowledged said instrument to be the act and deed of said Potomac Electric Power Company, and delivered the same as such. I further certify that the said Anthony J. Kamerick, being by me duly sworn, did depose and say that he knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal and was so affixed by order of the Board of Directors of said corporation; and that he signed his name thereto by like order.

Given under my hand and official seal this 24th day of March, 2008.

(Notarial Seal)

/s/ LINDA J. EPPERLY
Notary Public
District of Columbia

My Commission Expires: January 1, 2010

City of New York,
State of New York, ss.:

I, Carlos R. Luciano, a Notary Public in and for the City of New York, State of New York, do hereby certify that Cheryl L. Clarke and Mary LaGumina, whose names as Vice Presidents, of The Bank of New York, a New York banking corporation, are signed to the foregoing and hereto attached deed, bearing date as of the 24th day of March, 2008, personally appeared before me this day in the State aforesaid and acknowledged themselves to be, each, a Vice President of The Bank of New York, and that they as such, being authorized so to do, executed the said deed by signing the name of The Bank of New York, by Cheryl L. Clarke as Vice President, and attested by Mary LaGumina, as Vice President, and acknowledged the same before me in the State aforesaid and acknowledged the foregoing instrument to be the act and deed of The Bank of New York, as therein set forth.

Given under my hand and official seal this 24th day of March, 2008.

(Notarial Seal)

/s/ CARLOS R. LUCIANO
Notary Public
New York, New York

My Commission
Expires: _____

CARLOS R. LUCIANO
Notary Public, State of New York
No. 41-4765897
Qualified in Queen County
Commission Expires April 30, 2010

City of New York,
State of New York, ss.:

Cheryl L. Clarke, of full age, being sworn according to law, on his oath deposes and says that she is a Vice President of The Bank of New York, the Trustee named in the foregoing Supplemental Indenture, dated as of the 24th day of March, 2008, that she is the agent of said Trustee for the purpose of perfecting such Supplemental Indenture and that the consideration in the Original Indenture referred to therein and in all indentures supplemental to said Original Indenture, including the foregoing Supplemental Indenture, is true and bona fide as therein set forth.

Subscribed and sworn to before me this 24th day of March, 2008.

(Notarial Seal)

/s/ CARLOS R. LUCIANO
Notary Public
New York, New York

My Commission
Expires: _____

CARLOS R. LUCIANO
Notary Public, State of New York
No. 41-4765897
Qualified in Queen County
Commission Expires April 30, 2010

City of New York,
State of New York, ss.:

I, Carlos R. Luciano, a Notary Public in and for the City of New York, State of New York, do hereby certify that Cheryl L. Clarke a Vice President of The Bank of New York, a New York banking corporation, one of the parties to the foregoing instrument bearing date as of the 24th day of March, 2008, and hereto annexed, this day personally appeared before me in the City of New York, the said Cheryl L. Clarke, being personally well known to me as the person who executed the said instrument as a Vice President of and on behalf of said The Bank of New York, and known to me to be the attorney-in-fact duly appointed therein to acknowledge and deliver said instrument on behalf of said corporation, and, as such attorney-in-fact, she acknowledged said instrument to be the act and deed of said The Bank of New York, and delivered the same as such. I further certify that the said Cheryl L. Clarke, being by me duly sworn, did depose and say that she knows the seal of said corporation; that the seal affixed to said instrument is such corporate seal and was so affixed by order of the Board of Directors of said corporation; and that she signed her name thereto by like order.

Given under my hand and official seal this 24th day of March, 2008.

(Notarial Seal)

/s/ CARLOS R. LUCIANO
Notary Public
New York, New York

My Commission
Expires: _____

CARLOS R. LUCIANO
Notary Public, State of New York
No. 41-4765897
Qualified in Queen County
Commission Expires April 30, 2010

CERTIFICATE OF RESIDENCE

The Bank of New York, Mortgagee and Trustee within named, hereby certifies that its precise address is 101 Barclay Street, New York, NY 10286.

The Bank of New York, as Trustee

By: /s/ CHERYL L. CLARKE
Name: Cheryl L. Clarke
Title: Vice President