SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 8-A

FOR REGISTRATION OF CERTAIN CLASSES OF SECURITIES PURSUANT TO SECTION 12(b) OR 12(g) OF THE SECURITIES EXCHANGE ACT OF 1934

POTOMAC ELECTRIC POWER COMPANY

(Exact Name of Registrant as Specified in Its Charter)

District of Columbia			
<u>Virginia</u>	53-0127880		
(State of Incorporation	(IRS Employer		
or Organization)	Identification No.)		

701 Ninth Street, N.W. Washington, D.C. 20068

(Address of Principal Executive Offices) (Zip Code)

If this form relates to the registration of a class of securi and is effective pursuant to General Instruction A.(c), check th	1				
If this form relates to the registration of a class of securing and is effective pursuant to General Instruction A.(d), check the					
Securities Act registration statement file number to which this form relates: (if applicable					
Securities to be registered pursuant to Section 12(b) of the Act					
Title of Each Class To Be So Registered	Name of Each Exchange On Which Each Class Is To Be Registered				
Securities to be registered pursuant to Section 12(g) of the	he Act:				
Serial Preferred Stock,	, par value \$50				

(Title of Class)

Item 1. Description of Registrant's Securities to be Registered

The securities being registered pursuant to this Registration Statement on Form 8-A consist of Serial Preferred Stock, par value \$50, of the Registrant. The information required by this Item 1 is incorporated by reference to the description of the Serial Preferred Stock set forth in the Registrant's Registration Statement on Form S-3 (File No. 333-106209) filed with the Securities and Exchange Commission on June 18, 2003, under the section captioned "Description of Preferred Stock."

Item 2. Exhibits

- 4.01 Restated Articles of Incorporation and Articles of Restatement of the Registrant (Filed as Exhibit 3.2 to the Registrant's Form 10-Q for the quarter ended June 30, 2003 and incorporated by reference herein).
- 4.02 By-laws of the Registrant (Filed as Exhibit 3 to the Registrant's Form 10-Q for the quarter ended March 31, 2003 and incorporated by reference herein).
- 4.03 Specimen of Certificate representing Serial Preferred Stock.

SIGNATURES

Pursuant to the requirements of Section 12 of the Securities Exchange Act of 1934, the registrant has duly caused this registration statement to be signed on its behalf by the undersigned, thereto duly authorized.

POTOMAC ELECTRIC POWER COMPANY

By: /S/ A. W. WILLIAMS

Andrew W. Williams Senior Vice President and Chief Financial Officer

Date: August 14, 2003

SPECIMEN OF CERTIFICATE REPRESENTING PREFERRED STOCK

Certificate Number []	Number of Preferred Securities []
CUSIP No. []	
Certificate of Seria	l Preferred Stock, par value \$50 per share
	of
	ELECTRIC POWER COMPANY, of the District of Columbia and the Commonwealth of Virginia
This certifies that shares of the Serial Preferred Stock, \$50 par va of the Company by the holder hereof in person properly endorsed. A statement of the designat Preferred and Common Stocks of the Company the shares of each series of Serial Preferred Sto printed upon the back hereof, and this Certifica subject to all the provisions of the Articles of In which are on file at the office of the Transfer A Certificate is not valid unless countersigned by	ansferable in the City of Washington, DC fully paid and non-assessable lue, of Potomac Electric Power Company transferable on the books or by duly authorized attorney upon surrender of this Certificate tions, preferences, limitations and relative rights of the Serial and of the variations in the relative rights and preferences between ck (or information as to where such a statement may be obtained) is te and the shares represented hereby are issued and shall be held incorporation of the Company and all amendments thereto (copies of gent), to all of which the holder, by acceptance hereof, assents. This the Transfer Agent and registered by the Registrar.
Dated:	POTOMAC ELECTRIC POWER COMPANY
Secretary Countersigned and Registered:	President
Transfer Agent and Registrar	
Authorized Signature	Authorized Officer

[FORM OF REVERSE OF PREFERRED STOCK CERTIFICATE]

POTOMAC ELECTRIC POWER COMPANY

The corporation will furnish to any shareholder upon request and without charge a full statement of the designations, preferences, limitations, and relative rights of the shares of each class authorized to be issued and the variations in the relative rights and preferences between the shares of each series of its preferred stock so far as the same have been fixed and determined and the authority of the Board of Directors to fix and determine the relative rights and preferences of subsequent series. Such requests should be directed to the Treasurer of the corporation at its principal office, 701 Ninth Street, N.W., Washington, D.C. 20068.

The following abbreviations, when used in the inscription on the face of this certificate, shall be construed as though they were written out in full according to applicable laws or regulations:

TEN COM		as tenants in common	UNIF GIFT MIN ACT		Custodian	
					$\overline{\text{(Cust)}}$	(Minor)
TEN ENT		as tenants by the				
		entireties				orm Gifts to
					Minors Ac	(State)
						(State)
JT TEN		as joint tenants with				
		right of survivorship				
		and not as tenants in				
		common				
	Ado	ditional abbreviations may a	lso be used though not in the	above l	ist.	
For Va	ilue re	eceived		hereby	sell assign a	and transfer unto
101 ,				110100	5411, 4551511	with the state of
(PLEASE INSE	RT SO	CIAL SECURITY OR OTHER ID	ENTIFYING NUMBER OF ASSIGN	VEE)		
(PLEASE PRIN	T OR T	TYPEWRITE NAME AND ADDR	ESS INCLUDING POSTAL ZIP CO	DE OF A	SSIGNEE)	
(
						C1
						Shares of the Stock
ranracantad k	vy tha	within Cartificate and do h	ereby irrevocably constitute a	nd anno	aint	
represented t	y the	within Certificate, and do if	ereby irrevocably constitute a	пи аррс	JIIIt	
						Attorney to
						_ 111101110
transfer the s	aid st	ock on the books of the with	in named Company with full	power o	of substitutio	n in the premises.
			r r r r	I		P
Dated,						

NOTICE: THE SIGNATURE TO THIS ASSIGNMENT MUST CORRESPOND WITH THE NAME AS WRITTEN UPON THE FACE OF THE CERTIFICATE, IN EVERY PARTICULAR, WITHOUT ALTERATION OR ENLARGEMENT, OR ANY CHANGE WHATEVER.