

As filed with the Securities and Exchange Commission on August 2, 2002

Registration No. 033-53685

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

**POST-EFFECTIVE AMENDMENT NO. 1**  
**TO**  
**FORM S-8**  
**REGISTRATION STATEMENT**  
**UNDER**  
**THE SECURITIES ACT OF 1933**

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**POTOMAC ELECTRIC POWER COMPANY**  
(Exact name of registrant as specified in its charter)

**District of Columbia and Virginia**  
(State or other jurisdiction  
of incorporation)

**53-0127880**  
(I.R.S. Employer  
Identification No.)

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**701 Ninth Street, NW**  
**Washington, D.C. 20068**  
(Address, including zip code, of registrant's principal executive offices)

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**Potomac Electric Power Company Savings Plan for Exempt Employees**  
**Potomac Electric Power Company Savings Plan for Bargaining Unit Employees**  
**Potomac Electric Power Company Savings Plan for Non-Bargaining Unit, Non-Exempt Employees**  
(Full title of plans)

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**Ellen Sheriff Rogers**  
**Secretary and Assistant Treasurer**  
**Potomac Electric Power Company**  
**701 Ninth Street, N.W.**  
**Washington, D.C. 20068**  
**(202) 872-3526**  
(Name, address and telephone number, including area code, of agent for service)

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This Post-Effective Amendment No. 1 is being filed to amend the registration statement (the "Registration Statement") on Form S-8 (File No. 33-53685), pursuant to which Potomac Electric Power Company (the "Registrant") registered 1,200,000 shares of its common stock, \$1.00 par value ("Pepco Common Stock"), and an indeterminate amount of plan interests, for offer and sale pursuant to (i) the Potomac Electric Power Company Savings Plan for Exempt Employees, (ii) the Potomac Electric Power Company Savings Plan for Bargaining Unit Employees and (iii) the Potomac Electric Power Company Savings Plan for Non-Bargaining Unit, Non-Exempt Employees (collectively, the "Plans").

On August 1, 2002, in accordance with an Agreement and Plan of Merger, dated as of February 9, 2001, among the Registrant, New RC, Inc., now named Pepco Holdings, Inc. ("Pepco Holdings"), and Conectiv, the Registrant and Conectiv combined their businesses by merging with acquisition subsidiaries of Pepco Holdings (the "Merger"). As a result of the Merger, the Registrant and Conectiv each have become subsidiaries of Pepco Holdings and the outstanding shares of Pepco Common Stock were converted in the right to receive shares of Pepco Holdings common stock. In connection with the Merger, each of the Plans was amended to eliminate the Pepco stock fund as an investment alternative

In accordance with its undertaking in the Registration Statement to remove from registration, by means of a post-effective amendment, any of the registered securities that remain unsold at the termination of the offering, the Registrant hereby amends the Registration Statement to remove from registration all shares of Pepco Common Stock and plan interests that remained unsold under the Plans at the time of the Merger.

## SIGNATURES

**The Registrant.** Pursuant to the requirements of the Securities Act of 1933, the Registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing this Post- Effective Amendment No. 1 on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Washington, District of Columbia, on the 1st day of August 2002.

POTOMAC ELECTRIC POWER COMPANY

By: JOHN M. DERRICK, JR.  
John M. Derrick, Jr.  
Chairman of the Board

Pursuant to the requirements of the Securities Act of 1933, this Post-Effective Amendment No. 1 to the Registration Statement has been signed below by the following person in the capacities indicated.

| Signature   | Title   | Date           |
|---|---|----------------|
| <u>JOHN M. DERRICK, JR.</u><br>John M. Derrick, Jr. | Chairman of the Board (principal executive officer)   | August 1, 2002 |
| <u>D. R. WRAASE</u><br>Dennis R. Wraase             | Chief Executive Officer and Director  | August 1, 2002 |
| <u>WILLIAM J. SIM</u><br>William J. Sim             | President, Chief Operating Officer and Director   | August 1, 2002 |
| <u>ANDREW W. WILLIAMS</u><br>Andrew W. Williams     | Senior Vice President, Chief Financial Officer and Director<br>(principal financial officer ) | August 1, 2002 |

JAMES P. LAVIN  
James P. Lavin

Vice President and Controller  
(principal accounting officer )

August 1, 2002

T. S. SHAW  
Thomas S. Shaw

Director

August 1, 2002

WILLIAM T. TORGERSON  
William T. Torgerson

Director

August 1, 2002

**The Plan:** Pursuant to the requirements of the Securities Act of 1933, the Plan Administrator of the Plans has duly caused this Post-Effective Amendment No. 1 to the Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized in the City of Washington, District of Columbia, on August 1, 2002.

POTOMAC ELECTRIC POWER COMPANY SAVINGS  
PLAN FOR EXEMPT EMPLOYEES

POTOMAC ELECTRIC POWER COMPANY SAVINGS  
PLAN FOR BARGAINING UNIT EMPLOYEES

POTOMAC ELECTRIC POWER COMPANY SAVINGS  
PLAN FOR NON-BARGAINING UNIT, NON-EXEMPT  
EMPLOYEES

By: D. R. WRAASE  
Dennis R. Wraase  
Chairman, Administrative Board