

Form 5500

Annual Return/Report of Employee Benefit Plan

OMB Nos. 1210-0110 1210-0089

2024

This Form is Open to Public Inspection

Department of the Treasury Internal Revenue Service

Department of Labor Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code).

Complete all entries in accordance with the instructions to the Form 5500.

Part I Annual Report Identification Information

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

- A This return/report is for: a multiemployer plan, a multiple-employer plan, a single-employer plan, a DFE, the first return/report, the final return/report, an amended return/report, a short plan year return/report.
B This return/report is: the first return/report, the final return/report, an amended return/report, a short plan year return/report.
C If the plan is a collectively-bargained plan, check here.
D Check box if filing under: Form 5558, automatic extension, the DFVC program, special extension.
E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here.

Part II Basic Plan Information—enter all requested information

1a Name of plan: AMERICAN ELECTRIC POWER SYSTEM HEALTH CARE SPENDING ACCOUNT PLAN
1b Three-digit plan number (PN): 515
1c Effective date of plan: 03/01/1999
2a Plan sponsor's name (employer, if for a single-employer plan): AMERICAN ELECTRIC POWER SERVICE CORPORATION
2b Employer Identification Number (EIN): 13-4922641
2c Plan Sponsor's telephone number: 614-716-1000
2d Business code (see instructions): 221100

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

Table with 4 columns: SIGN HERE, Signature of plan administrator, Date, Enter name of individual signing as plan administrator. Includes rows for employer/plan sponsor and DFE.

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

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| | | |
|---|--|------|
| 3a Plan administrator's name and address <input checked="" type="checkbox"/> Same as Plan Sponsor | 3b Administrator's EIN | |
| | 3c Administrator's telephone number | |
| 4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name | 4b EIN | |
| | 4d PN | |
| 5 Total number of participants at the beginning of the plan year | 5 | 1597 |
| 6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item) g(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested..... | 6a(1) | 1597 |
| | 6a(2) | 1396 |
| | 6b | 2 |
| | 6c | 0 |
| | 6d | 1398 |
| | 6e | |
| | 6f | |
| | 6g(1) | |
| 6g(2) | | |
| 6h | | |
| 7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item) | 7 | |

8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:

b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:
4A 4D 4E

| | |
|---|---|
| 9a Plan funding arrangement (check all that apply) | 9b Plan benefit arrangement (check all that apply) |
| (1) <input type="checkbox"/> Insurance | (1) <input type="checkbox"/> Insurance |
| (2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts | (2) <input type="checkbox"/> Code section 412(e)(3) insurance contracts |
| (3) <input type="checkbox"/> Trust | (3) <input type="checkbox"/> Trust |
| (4) <input checked="" type="checkbox"/> General assets of the sponsor | (4) <input checked="" type="checkbox"/> General assets of the sponsor |

10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

- a Pension Schedules**
- (1) **R** (Retirement Plan Information)
 - (2) **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
 - (3) **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary
 - (4) **DCG** (Individual Plan Information) – Number Attached _____
 - (5) **MEP** (Multiple-Employer Retirement Plan Information)

- b General Schedules**
- (1) **H** (Financial Information)
 - (2) **I** (Financial Information – Small Plan)
 - (3) **A** (Insurance Information) – Number Attached 0
 - (4) **C** (Service Provider Information)
 - (5) **D** (DFE/Participating Plan Information)
 - (6) **G** (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) Yes No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) Yes No

11c Enter the Receipt Confirmation Code for the 2024 Form M-1 annual report. If the plan was not required to file the 2024 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____
