

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan 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.	OMB Nos. 1210-0110 1210-0089 2022 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022	
A	This return/report is for: ☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) _____
B	This return/report is: ☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
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 (enter description)
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 RETIREMENT PLAN
1b	Three-digit plan number (PN) ▶ 001
1c	Effective date of plan 12/01/1940
2a	Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) AMERICAN ELECTRIC POWER SERVICE CORPORATION 1 RIVERSIDE PLAZA COLUMBUS, OH 43215
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.

SIGN HERE	Filed with authorized/valid electronic signature.	10/13/2023	JULIE A. SHERWOOD
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

3a Plan administrator's name and address ☒ 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		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">5</td> <td style="text-align: right;">33645</td> </tr> </table>	5	33645																		
5	33645																					
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).		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="background-color: #f2f2f2; height: 20px;"></td> </tr> <tr> <td style="width: 10%; text-align: center;">6a(1)</td> <td style="text-align: right;">15837</td> </tr> <tr> <td style="text-align: center;">6a(2)</td> <td style="text-align: right;">15595</td> </tr> <tr> <td style="text-align: center;">6b</td> <td style="text-align: right;">10752</td> </tr> <tr> <td style="text-align: center;">6c</td> <td style="text-align: right;">3488</td> </tr> <tr> <td style="text-align: center;">6d</td> <td style="text-align: right;">29835</td> </tr> <tr> <td style="text-align: center;">6e</td> <td style="text-align: right;">3297</td> </tr> <tr> <td style="text-align: center;">6f</td> <td style="text-align: right;">33132</td> </tr> <tr> <td style="text-align: center;">6g</td> <td></td> </tr> <tr> <td style="text-align: center;">6h</td> <td style="text-align: right;">114</td> </tr> </table>			6a(1)	15837	6a(2)	15595	6b	10752	6c	3488	6d	29835	6e	3297	6f	33132	6g		6h	114
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6c	3488																					
6d	29835																					
6e	3297																					
6f	33132																					
6g																						
6h	114																					
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 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.....																						
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%; text-align: center;">7</td> <td></td> </tr> </table>	7																			
7																						
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 1C 3H 1A 3F 1E																						
b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:																						
9a Plan funding arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ 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	b General Schedules (1) ☒ H (Financial Information) (2) ☐ I (Financial Information – Small Plan) (3) ☐ 0 A (Insurance Information) (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 2022 Form M-1 annual report. If the plan was not required to file the 2022 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 _____

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan <u>AMERICAN ELECTRIC POWER SYSTEM RETIREMENT PLAN</u>	B Three-digit plan number (PN) ▶ <u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>AMERICAN ELECTRIC POWER SERVICE CORPORATION</u>	D Employer Identification Number (EIN) <u>13-4922641</u>
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I	Basic Information
1 Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2022</u>	
2 Assets:	
a Market value.....	2a <u>5401961722</u>
b Actuarial value	2b <u>5375186908</u>
3 Funding target/participant count breakdown	(1) Number of participants (2) Vested Funding Target (3) Total Funding Target
a For retired participants and beneficiaries receiving payment	<u>14390</u> <u>2191512438</u> <u>2191512438</u>
b For terminated vested participants.....	<u>3418</u> <u>236515426</u> <u>236515426</u>
c For active participants.....	<u>15837</u> <u>1579361384</u> <u>1591097722</u>
d Total	<u>33645</u> <u>4007389248</u> <u>4019125586</u>
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐	
a Funding target disregarding prescribed at-risk assumptions.....	4a
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b
5 Effective interest rate.....	5 <u>5.33 %</u>
6 Target normal cost	
a Present value of current plan year accruals.....	6a <u>91784042</u>
b Expected plan-related expenses	6b <u>7251470</u>
c Total (line 6a + line 6b)	6c <u>99035512</u>

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		<u>08/30/2023</u>
	Signature of actuary	Date
<u>JOSEPH A. PERKO</u>	Type or print name of actuary	<u>23-06491</u>
<u>WILLIS TOWERS WATSON US LLC</u>	Firm name	Most recent enrollment number
<u>1001 LAKESIDE AVENUE</u> <u>SUITE 1500</u> <u>CLEVELAND, OH 44114-1172</u>	Address of the firm	<u>216-937-4204</u>
		Telephone number (including area code)

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

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

Schedule SB (Form 5500) 2022
v. 220413

Part II Beginning of Year Carryover and Prefunding Balances		
	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year).....	109577498	986183808
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9 Amount remaining (line 7 minus line 8)	109577498	986183808
10 Interest on line 9 using prior year's actual return of <u>5.31</u> %	5818565	52366360
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year).....		0
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.49</u> %.....		0
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance.....		0
d Portion of (c) to be added to prefunding balance.....		0
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....	115396063	1038550168

Part III Funding Percentages		
14 Funding target attainment percentage	14	105.02 %
15 Adjusted funding target attainment percentage	15	133.74 %
16 Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement.....	16	106.05 %
17 If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls					
18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
Totals ►			18(b)	0	18(c) 0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:		
a Contributions allocated toward unpaid minimum required contributions from prior years.....	19a	0
b Contributions made to avoid restrictions adjusted to valuation date.	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.	19c	0
20 Quarterly contributions and liquidity shortfalls:		
a Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No		
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No		
c If line 20a is "Yes," see instructions and complete the following table as applicable:		
Liquidity shortfall as of end of quarter of this plan year		
(1) 1st	(2) 2nd	(3) 3rd

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:			
a Segment rates:	1st segment: 4.75 %	2nd segment: 5.18 %	3rd segment: 5.92 %
			☐ N/A, full yield curve used
b Applicable month (enter code).....			21b 3
22 Weighted average retirement age			22 63
23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute			

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.		☐ Yes ☒ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.		☐ Yes ☒ No
26 Demographic and benefit information		
a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.		☒ Yes ☐ No
b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...		☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment		27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years.....	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6c).....		31a	99035512
b Excess assets, if applicable, but not greater than line 31a		31b	99035512
32 Amortization installments:		Outstanding Balance	Installment
a Net shortfall amortization installment		0	0
b Waiver amortization installment		0	0
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount		33	
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)....		34	0
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	0	0
36 Additional cash requirement (line 34 minus line 35)	36		0
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37		0
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)		38a	0
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances		38b	0
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)		39	0
40 Unpaid minimum required contributions for all years.....		40	0

Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)

41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. ☐ 2019 ☐ 2020 ☒ 2021
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SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2022
		This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan AMERICAN ELECTRIC POWER SYSTEM RETIREMENT PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 AMERICAN ELECTRIC POWER SERVICE CORPORATION	D Employer Identification Number (EIN) 13-4922641	

Part I	Service Provider Information (see instructions)
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You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

- a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions)..... ☒ Yes ☐ No
- b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
HAMILTON LANE
23-2962336

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
TOWNSEND GROUP
45-3073569

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
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2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

LIFEWORKS

52-1883918

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
12 15 38 50	NONE	1299293	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

JENNISON ASSOCIATES

52-2069785

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51	NONE	1238924	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

TOWNSEND

45-3073569

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51	NONE	1109816	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

BNY MELLON

13-5160382

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
18 19 21 25 31 34 49 50 62	NONE	924255	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☒ No ☐

(a) Enter name and EIN or address (see instructions)

J.P.MORGAN INVESTMENT MANAGEMENT

13-3200244

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 28 50 51	NONE	908022	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

WELLINGTON

04-2683227

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51	NONE	893567	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

NISA INVESTMENT ADVISORS

48-1140940

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51	NONE	818838	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

POLARIS CAPITAL MANAGEMENT

04-3269043

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
25 50 51	NONE	788051	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

VONTOBEL

13-3223264

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51	NONE	695393	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

SANDS CAPITAL MANAGEMENT

20-2830751

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51 68	NONE	659596	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

RIVER & MERCANTILE

04-3513306

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51	NONE	654111	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

HAMILTON LANE

23-2962336

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51	NONE	481250	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

FRANKLIN TEMPLETON INSTITUTIONAL

94-3411725

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51 68	NONE	417026	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

STONE HARBOR INVESTMENT PARTNERS LP

31 WEST 52ND STREET, 16TH FLOOR
NEW YORK, NY 10019

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51	NONE	295288	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

ARIEL INVESTMENTS, LLC

02-0712418

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51 68	NONE	266634	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

MELLON CAPITAL MANAGEMENT

25-1442864

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50 51	NONE	251707	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

AON HEWITT

98-1090818

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
16 27 50	NONE	231797	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

JP MORGAN CHASE BANK

13-4994650

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
24 27 28 50 51	NONE	211123	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

TOWERS WATSON ACTUARY SERVICE

53-0181291

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
11 17 50 70	NONE	91861	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

BUSINESS SOLVER

42-1503807

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
15 38 50	NONE	59550	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

BDO USA

13-5381590

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
10 50	NONE	28970	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

SCHEDULE D (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration	DFE/Participating Plan Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection.
	For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022	

A Name of plan AMERICAN ELECTRIC POWER SYSTEM RETIREMENT PLAN	B Three-digit plan number (PN) ►	001
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 AMERICAN ELECTRIC POWER SERVICE CORPORATION	D Employer Identification Number (EIN) 13-4922641	

Part I	Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)
---------------	--

a Name of MTIA, CCT, PSA, or 103-12 IE: CPTF SPECIAL SITUATION PROPERTY		
b Name of sponsor of entity listed in (a): JP MORGAN CHASE BANK, N.A.		
c EIN-PN 13-3980309-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 1
a Name of MTIA, CCT, PSA, or 103-12 IE: BNYM MELON DB SL ACWI FUND		
b Name of sponsor of entity listed in (a): THE BANK OF NEW YORK MELLON		
c EIN-PN 25-6078093-191	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 440525773
a Name of MTIA, CCT, PSA, or 103-12 IE: OHA STRATEGIC CREDIT FUND II		
b Name of sponsor of entity listed in (a): OAK HILL ADVISORS		
c EIN-PN 13-4077194-000	d Entity code E	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 4406308
a Name of MTIA, CCT, PSA, or 103-12 IE: CPTF LONG DURATION INVESTMENT GRADE		
b Name of sponsor of entity listed in (a): JP MORGAN CHASE BANK, N.A.		
c EIN-PN 26-0199869-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 98906964
a Name of MTIA, CCT, PSA, or 103-12 IE: EB TEMPORARY INVESTMENT		
b Name of sponsor of entity listed in (a): THE BANK OF NEW YORK MELLON		
c EIN-PN 25-6078093-023	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 6701287
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
a Name of MTIA, CCT, PSA, or 103-12 IE:		
b Name of sponsor of entity listed in (a):		
c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)

a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
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103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
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103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
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103-12 IE at end of year (see instructions)**a** Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):**c** EIN-PN**d** Entity
code**e** Dollar value of interest in MTIA, CCT, PSA, or
103-12 IE at end of year (see instructions)

Part II **Information on Participating Plans (to be completed by DFEs)**

(Complete as many entries as needed to report all participating plans)

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection				
For calendar plan year 2022 or fiscal plan year beginning <u>01/01/2022</u> and ending <u>12/31/2022</u>						
A Name of plan <u>AMERICAN ELECTRIC POWER SYSTEM RETIREMENT PLAN</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 5px;">B Three-digit plan number (PN) ►</td> <td style="width: 20%; padding: 5px; text-align: center;"><u>001</u></td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> </table>		B Three-digit plan number (PN) ►	<u>001</u>		
B Three-digit plan number (PN) ►	<u>001</u>					
C Plan sponsor's name as shown on line 2a of Form 5500 <u>AMERICAN ELECTRIC POWER SERVICE CORPORATION</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 5px;">D Employer Identification Number (EIN) <u>13-4922641</u></td> <td style="width: 20%;"></td> </tr> </table>		D Employer Identification Number (EIN) <u>13-4922641</u>			
D Employer Identification Number (EIN) <u>13-4922641</u>						

Part I	Asset and Liability Statement		
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.			
Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash.....		1a	-3190052782701
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....		1b(1)	
(2) Participant contributions.....		1b(2)	
(3) Other.....		1b(3)	9276334851898624
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....		1c(1)	118571881123781920
(2) U.S. Government securities		1c(2)	16291534341103652003
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred		1c(3)(A)	788743195512035054
(B) All other		1c(3)(B)	807833105571231636
(4) Corporate stocks (other than employer securities):			
(A) Preferred		1c(4)(A)	734520
(B) Common.....		1c(4)(B)	866690031756349801
(5) Partnership/joint venture interests		1c(5)	768474388702109917
(6) Real estate (other than employer real property)		1c(6)	
(7) Loans (other than to participants).....		1c(7)	
(8) Participant loans.....		1c(8)	
(9) Value of interest in common/collective trusts.....		1c(9)	727644781546134025
(10) Value of interest in pooled separate accounts		1c(10)	
(11) Value of interest in master trust investment accounts.....		1c(11)	
(12) Value of interest in 103-12 investment entities		1c(12)	56772754406308
(13) Value of interest in registered investment companies (e.g., mutual funds).....		1c(13)	
(14) Value of funds held in insurance company general account (unallocated contracts).....		1c(14)	
(15) Other		1c(15)	244603162124303309

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)		
(2) Employer real property	1d(2)		
e Buildings and other property used in plan operation	1e		
f Total assets (add all amounts in lines 1a through 1e)	1f	6049909047	4498685298

Liabilities

g Benefit claims payable	1g		
h Operating payables	1h	4926460	3251172
i Acquisition indebtedness	1i		
j Other liabilities	1j	216103953	110051030
k Total liabilities (add all amounts in lines 1g through 1j)	1k	221030413	113302202

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	5828878634	4385383096
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Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income

		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)		
(B) Participants	2a(1)(B)		
(C) Others (including rollovers)	2a(1)(C)		
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		0
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	56545	
(B) U.S. Government securities	2b(1)(B)	33135903	
(C) Corporate debt instruments	2b(1)(C)	56231754	
(D) Loans (other than to participants)	2b(1)(D)		
(E) Participant loans	2b(1)(E)		
(F) Other	2b(1)(F)	3666554	
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		93090756
(2) Dividends: (A) Preferred stock	2b(2)(A)		
(B) Common stock	2b(2)(B)	11120857	
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)		
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		11120857
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)	6560268839	
(B) Aggregate carrying amount (see instructions)	2b(4)(B)	6822169857	
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		-261901018
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)	-700687354	
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		-700687354

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		-128656121
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities.....	2b(9)		427177
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		
c Other income	2c		11470013
d Total income. Add all income amounts in column (b) and enter total	2d		-975135690
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	392065250	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)	56700295	
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		448765545
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)	-228733	
(2) Contract administrator fees	2i(2)		
(3) Investment advisory and management fees	2i(3)	9479045	
(4) Other	2i(4)	10343991	
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		19594303
j Total expenses. Add all expense amounts in column (b) and enter total	2j		468359848
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d	2k		-1443495538
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☒ Unmodified (2) ☐ Qualified (3) ☐ Disclaimer (4) ☐ Adverse

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) ☒ DOL Regulation 2520.103-8 (2) ☐ DOL Regulation 2520.103-12(d) (3) ☐ neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: **BDO USA, P.C.**

(2) EIN: **13-5381590**

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.)

	Yes	No	Amount
4a		X	

	Yes	No	Amount
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)			
4b		X	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)			
4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)			
4d		X	
e Was this plan covered by a fidelity bond?	X		10000000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
4i	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)	X		
4j	X		
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		X	
4k		X	
l Has the plan failed to provide any benefit when due under the plan?		X	
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
4m			
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			
4n			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☐ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☒ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 483599.

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection.
For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan AMERICAN ELECTRIC POWER SYSTEM RETIREMENT PLAN		B Three-digit plan number (PN) ► 001
C Plan sponsor's name as shown on line 2a of Form 5500 AMERICAN ELECTRIC POWER SERVICE CORPORATION		D Employer Identification Number (EIN) 13-4922641
Part I Distributions		
All references to distributions relate only to payments of benefits during the plan year.		
1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions.....		1 0
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): 13-5160382		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year.....		3 880
Part II Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)		
4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ☐ Yes ☒ No ☐ N/A If the plan is a defined benefit plan, go to line 8.		
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.		
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived).....		6a
b Enter the amount contributed by the employer to the plan for this plan year.....		6b
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount).....		6c
If you completed line 6c, skip lines 8 and 9.		
7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ☐ Yes ☐ No ☐ N/A		
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ☐ Yes ☐ No ☒ N/A		
Part III Amendments		
9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box..... ☒ Increase ☐ Decrease ☐ Both ☐ No		
Part IV ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.		
10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?..... ☐ Yes ☐ No		
11 a Does the ESOP hold any preferred stock?..... ☐ Yes ☐ No		
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.)..... ☐ Yes ☐ No		
12 Does the ESOP hold any stock that is not readily tradable on an established securities market?..... ☐ Yes ☐ No		
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.		
Schedule R (Form 5500) 2022 v. 220413		

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that (1) contributed more than 5% of total contributions to the plan during the plan year or (2) was one of the top-ten highest contributors (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

14	Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:		
	a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment).....	14a	
	b The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14b	
	c The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14c	
15	Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:		
	a The corresponding number for the plan year immediately preceding the current plan year.....	15a	
	b The corresponding number for the second preceding plan year.....	15b	
16	Information with respect to any employers who withdrew from the plan during the preceding plan year:		
	a Enter the number of employers who withdrew during the preceding plan year	16a	
	b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers.....	16b	
17	If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐		

Part VI	Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans
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18	If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐
19	If the total number of participants is 1,000 or more, complete lines (a) through (c) a Enter the percentage of plan assets held as: Stock: <u>24.6</u> % Investment-Grade Debt: <u>59.2</u> % High-Yield Debt: <u>2.0</u> % Real Estate: <u>4.4</u> % Other: <u>9.8</u> % b Provide the average duration of the combined investment-grade and high-yield debt: ☐ 0-3 years ☐ 3-6 years ☒ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more c What duration measure was used to calculate line 19(b)? ☐ Effective duration ☐ Macaulay duration ☒ Modified duration ☐ Other (specify): _____
20	PBGC missed contribution reporting requirements. If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20. a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☒ No b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box: ☐ Yes. ☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date. ☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date. ☐ No. Other. Provide explanation _____



American Electric Power System Retirement Plan

Financial Statements and
ERISA-Required Supplemental Schedules
Years Ended December 31, 2022 and 2021

American Electric Power System Retirement Plan

Financial Statements and ERISA-Required Supplemental Schedules
Years Ended December 31, 2022 and 2021

American Electric Power System Retirement Plan

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ERISA-Required Supplemental Schedules

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Note: All other schedules required by 29 CFR 2520.103-10 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act (ERISA) of 1974 have been omitted because they are not applicable.

Independent Auditor's Report

To the Plan Administrator
American Electric Power System Retirement Plan
Columbus, Ohio

Scope and Nature of the ERISA Section 103(a)(3)(C) Audit

We have performed audits of the financial statements of American Electric Power System Retirement Plan (the Plan), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), as permitted by ERISA Section 103(a)(3)(C). The financial statements comprise the statements of net assets available for benefits and of accumulated plan benefits as of December 31, 2022 and 2021, and the related statements of changes in net assets available for benefits and of changes in accumulated plan benefits for the years then ended, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audits of the Plan's financial statements performed in accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's (DOL) Rules and Regulations for Reporting and Disclosure under ERISA (ERISA Section 103(a)(3)(C) audit). As permitted by ERISA Section 103(a)(3)(C), our audits need not extend to any statements or information related to assets held for investment of the Plan (investment information) by a bank or similar institution or insurance carrier that is regulated, supervised, and subject to periodic examination by a state or federal agency (qualified institution), provided that the investment information is prepared and certified to by the qualified institution in accordance with 29 CFR 2520.103-5 of the DOL's Rules and Regulations for Reporting and Disclosure under ERISA.

Management has obtained certifications from a qualified institution as of December 31, 2022 and 2021, and for the years then ended, stating that the certified investment information, as described in Note 3 to the financial statements, is complete and accurate.

Opinion

In our opinion, based on our audits and the procedures performed as described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report:

- The amounts and disclosures in the accompanying financial statements, other than those agreed to or derived from the certified investment information, are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America (GAAP).
- The certified investment information in the accompanying financial statements agrees to, or is derived from, in all material respects, the information prepared and certified by a qualified institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).



Basis for Opinion

We conducted our audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the *Auditor's Responsibilities for the Audit of the Financial Statements* section of our report. We are required to be independent of the Plan and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our ERISA Section 103(a)(3)(C) audit opinion.

Responsibilities of Management for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with GAAP, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error. Management's election of the ERISA Section 103(a)(3)(C) audit does not affect management's responsibility for the financial statements.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern within one year after the date that the financial statements are issued or available to be issued.

Management is responsible for maintaining a current plan instrument, including all plan amendments. Management is also responsible for administering the Plan and determining that the Plan's transactions that are presented and disclosed in the financial statements are in conformity with the Plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditor's Responsibilities for the Audit of the Financial Statements

Except as described in the *Scope and Nature of the ERISA Section 103(a)(3)(C) Audit* section of our report, our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and, therefore, is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.



In performing an audit in accordance with GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.
- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for a reasonable period of time.

Our audits did not extend to the certified investment information, except for obtaining and reading the certifications, comparing the certified investment information with the related information presented and disclosed in the financial statements, and reading the disclosures relating to the certified investment information to assess whether they are in accordance with the presentation and disclosure requirements of GAAP.

Accordingly, the objective of an ERISA Section 103(a)(3)(C) audit is not to express an opinion about whether the financial statements as a whole are presented fairly, in all material respects, in accordance with GAAP.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Other Matter - Supplemental Schedules Required by ERISA

The supplemental Schedule of Assets (Held at End of Year) as of December 31, 2022, Schedule of Reportable Transactions for the year ended December 31, 2022, and Schedule of Assets (Acquired and Disposed of Within Year) for the year ended December 31, 2022, are presented for purposes of additional analysis and are not required parts of the financial statements but are supplementary information required by the DOL's Rules and Regulations for Reporting and Disclosure under ERISA. Such information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information included in the supplemental schedules, other than that agreed to or derived from the certified investment information, has been subjected to auditing procedures applied in the audits of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and



other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with GAAS. For information included in the supplemental schedules that agreed to or is derived from the certified investment information, we compared such information to the related certified investment information.

In forming our opinion on the supplemental schedules, we evaluated whether the supplemental schedules, other than the information agreed to or derived from the certified investment information, including their form and content, are presented in conformity with the DOL's Rules and Regulations for Reporting and Disclosure under ERISA.

In our opinion:

- The form and content of the supplemental schedules, other than the information in the supplemental schedules that agreed to or is derived from the certified investment information, are presented, in all material respects, in conformity with the DOL's Rules and Regulations for Reporting and Disclosure under ERISA.
- The certified investment information in the supplemental schedules agrees to, or is derived from, in all material respects, the information prepared and certified by a qualified institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

BDO USA, P.C.

October 13, 2023

American Electric Power System Retirement Plan

Statements of Net Assets Available for Benefits

<i>December 31,</i>	2022	2021
Assets		
Investments, at fair value:		
Short-term investments	\$ 65,491,042	\$ 64,483,417
Corporate stock (including securities on loan of \$20,551,544 for 2022 and \$20,058,219 for 2021)	746,662,146	855,349,321
U.S. government obligations (including securities on loan of \$55,634,242 for 2022 and \$99,921,583 for 2021)	1,055,257,749	1,559,089,475
Corporate obligations (including securities on loan of \$7,146,778 for 2022 and \$16,847,899 for 2021)	1,033,666,414	1,558,022,705
State and local government obligations	37,006,345	57,192,462
Common/collective trusts and commingled fund	438,025,308	517,693,784
Partnership/joint venture interests	706,516,226	774,151,664
Total Investments, at fair value	4,082,625,230	5,385,982,828
Collateral held under securities lending (Note 5)	83,893,911	138,775,997
Net assets held in 401(h) account at fair value (Note 6)	278,219,765	433,029,150
Due from broker for securities sold	8,519,790	43,462,813
Accrued dividend and interest income	45,297,492	48,226,019
Total Assets	4,498,556,188	6,049,476,807
Liabilities		
Due to broker for securities purchased	8,057,536	50,700,908
Investment advisory and other fees payable	19,592,074	29,713,109
Obligation under securities lending (Note 5)	85,523,482	140,184,156
Payables for investments held in 401(h) account at fair value (Note 6)	278,219,765	433,029,150
Total Liabilities	391,392,857	653,627,323
Net Assets Available for Benefits	\$ 4,107,163,331	\$ 5,395,849,484

See accompanying notes to financial statements.

American Electric Power System Retirement Plan

Statements of Changes in Net Assets Available for Benefits

<i>Year ended December 31,</i>	2022	2021
Additions		
Investment income (loss):		
Interest and dividends	\$ 99,918,477	\$ 95,406,670
Net (depreciation) appreciation in fair value of investments	(985,928,629)	191,956,800
Other investment income	11,383,416	16,067,270
Net Investment (Loss) Income	(874,626,736)	303,430,740
Total Additions, net of investment loss	(874,626,736)	303,430,740
Deductions		
Benefits paid directly to participants or beneficiaries	394,819,465	443,195,064
Administrative expenses	19,239,952	28,028,545
Total Deductions	414,059,417	471,223,609
Net Decrease in Net Assets Available for Benefits	(1,288,686,153)	(167,792,869)
Net Assets Available for Benefits, beginning of year	5,395,849,484	5,563,642,353
Net Assets Available for Benefits, end of year	\$ 4,107,163,331	\$ 5,395,849,484

See accompanying notes to financial statements.

American Electric Power System Retirement Plan

Statements of Accumulated Plan Benefits

<i>December 31,</i>	2022	2021
Actuarial Present Value of Accumulated Plan Benefits		
Vested benefits:		
Participants and beneficiaries currently receiving benefit payments	\$ 1,803,798,084	\$ 2,170,304,868
Other participants	1,492,165,127	1,736,535,527
Total Vested Benefits	3,295,963,211	3,906,840,395
Nonvested benefits	9,071,859	8,569,641
Total Actuarial Present Value of Accumulated Plan Benefits	\$ 3,305,035,070	\$ 3,915,410,036

See accompanying notes to financial statements.

American Electric Power System Retirement Plan

Statements of Changes in Accumulated Plan Benefits

<i>Year ended December 31,</i>	2022	2021
Actuarial Present Value of Accumulated Plan Benefits, beginning of year	\$ 3,915,410,036	\$ 4,220,238,377
Increase (decrease) during the year attributable to:		
Benefits accumulated	84,266,488	86,366,391
Actuarial losses	27,693,968	15,625,851
Interest due to the decrease in the discount period	199,751,576	194,159,955
Benefits paid	(394,819,465)	(443,195,064)
Changes in actuarial assumptions	(527,267,533)	(157,785,474)
Net Decrease	(610,374,966)	(304,828,341)
Actuarial Present Value of Accumulated Plan Benefits, end of year	\$ 3,305,035,070	\$ 3,915,410,036

See accompanying notes to financial statements.

American Electric Power System Retirement Plan

Notes to Financial Statements

1. Plan Description

The following description of American Electric Power System Retirement Plan (the Plan) provides only general information. Participants should refer to the Plan's governing documents for a more complete description of the Plan's provisions.

General

The Plan is a noncontributory trustee plan established by American Electric Power Service Corporation and affiliated companies (all of which are collectively referred to as the Company, AEPSC, or AEP). The Plan is administered under the direction of American Electric Power Service Corporation (the Plan Administrator), which has delegated supervision of the plan investment policy to the Benefits Finance Committee (BFC). The BFC is responsible for monitoring the investment policy for the Plan, and its Investment Subcommittee (IC) has been delegated responsibility for the engagement of investment managers to direct the Plan's investments. The Plan was amended and restated effective August 18, 2020 to incorporate all amendments that had been made to the Plan through December 31, 2019, and has since been amended from time to time - most recently on August 24, 2023. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended (ERISA). Plan assets are held in a tax-exempt trust at the Bank of New York Mellon/BNY Mellon, N.A., the Plan's trustee (the Trustee or BNYM).

The Plan consists of an insured Group Annuity Plan (GAP), contributions to which were suspended on May 1, 1955, and a Trusteed Plan, which was added on May 1, 1955. Benefits under the Plan are determined solely by reference to terms of the Trusteed Plan, but participants who were covered by the suspended GAP also receive payments under the GAP. Any payments made under the GAP offset the payments required under the Trusteed Plan. Insurance contracts purchased for the GAP are excluded from plan assets and accumulated plan benefit obligations.

The Plan's trust includes a separate account maintained under the terms of the Plan and Internal Revenue Code (IRC) Section 401(h) to provide funding for certain retiree health benefits.

Pension Benefits

The Plan, as amended to date, covers substantially all employees of the Company not covered by any other private defined benefit pension plan to which the Company contributes. Employees who have completed one year of service are eligible to participate in the Plan. Plan benefits generally accrue under a cash balance formula.

Certain long-time participants also were grandfathered into certain benefit formulas. If still working, these participants currently accrue plan benefits only under a cash balance plan formula. Some had been covered by the former Central and South West System Cash Balance Retirement Plan and were credited benefits only through July 1, 1997 under certain grandfathered benefit formulas. Many other plan participants who were grandfathered into a prior benefit formula were credited benefits under that formula only through December 31, 2010 based on their then-final average base pay and years of service.

The cash balance formula includes an expanded definition of earnings and, for applicable grandfathered participants, an opening balance calculation (as of July 1, 1997 or January 1, 2001, as applicable) that provided credit for the then-value of the participant's then-accrued benefit. All eligible employees become fully vested once credited with at least three years of service. Payment

American Electric Power System Retirement Plan

Notes to Financial Statements

of vested benefits is available as an annuity or lump sum or for rollover to an eligible retirement plan after the participant's employment with the Company ends.

Funding Policy

The Plan sponsor generally contributes the greater of the Accounting Standards Codification (ASC) 715 service cost or the minimum required contribution, but reserves the right to deviate from this practice, based on other considerations. The Plan also operates in compliance with the minimum funding requirements of ERISA. The Plan met the minimum funding requirement in 2022 and 2021.

Party-in-Interest and Related Party Transactions

Certain transactions involving the Plan and its assets involved parties in interest with respect to the Plan, but those transactions were not prohibited transactions under ERISA because of the applicability of one or more exemptions. BNYM acts as Trustee and custodian for the Plan's investments. Fees paid by the Plan to the Trustee for Trustee services amounted to \$901,367 and \$896,046 for the years ended December 31, 2022 and 2021, respectively. The Plan held investments managed by BNYM totaling \$370,312,704 and \$452,739,483 at December 31, 2022 and 2021, respectively. BNYM is the lending agent for the securities lending transactions detailed in Note 5. Certain BNYM investments are also held within the Plan's 401(h) account as detailed in Note 6.

2. Summary of Significant Accounting Policies

Basis of Accounting

The financial statements are prepared on the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America (GAAP).

Investment Valuation and Income Recognition

Investments are recorded at fair value. Dividend income is recorded based on the ex-dividend date. Interest and other income are recorded on the accrual basis. Investment transactions are recorded on the trade date. Net (depreciation) appreciation includes the Plan's gains and losses on investments bought and sold, as well as held during the year.

Fair Value Measurement of Assets

The accounting guidance for *Fair Value Measurements and Disclosures* establishes a fair value hierarchy that prioritizes the inputs used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted market prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). AEPSC's staff independently monitors valuation policies and procedures and provides members of the BFC and its IC various monthly and quarterly reports, regarding compliance with policies and procedures. As of December 31, 2022, the BFC consisted of AEPSC's then chief financial officer, senior vice president of risk and treasury, senior vice president & chief human resources officer, senior vice president of strategy and transformation, executive vice president general counsel, executive vice president of utilities, and executive vice president - portfolio optimization. The IC consisted of AEPSC's senior vice president of risk and treasury, director of trust and investments,

American Electric Power System Retirement Plan

Notes to Financial Statements

vice president of finance and treasury, a managing director of corporate finance, and a director of corporate finance.

The Plan utilizes its Trustee's external pricing service to determine the fair value of the underlying investments held in the Plan. The Trustee uses multiple pricing vendors for the assets held in trust. The Plan's investment managers review and validate the prices utilized by the Trustee to determine fair value. The Plan Administrator performs its own valuation testing to verify the fair values of the securities, in part by reviewing audit reports of the Trustee's operating controls and valuation processes.

Assets in the Plan are classified using the following methods. Equities are classified as Level 1 holdings if they are actively traded on exchanges. Items classified as Level 1 are investments in equity securities. They are valued based on observable inputs, primarily unadjusted quoted prices in active markets for identical assets. Items classified as Level 2 are primarily investments in fixed-income securities. Fixed-income securities generally do not trade on exchanges and do not have an official closing price, but their valuation inputs are based on observable market data.

The Trustee's pricing vendors calculate fixed-income securities valuations using financial models and matrices. The models use observable inputs, including yields on benchmark securities; quotes by securities brokers; rating agency actions; discounts on premiums on securities compared to par prices; changes in yields for U.S. Treasury securities; corporate actions by bond issuers; prepayment schedules and histories; economic events; and, for certain securities, adjustments to yields to reflect changes in the rate of inflation. Short-term funds are held to provide liquidity and meet short-term cash needs. The underlying holdings in these funds consist of commercial paper, common collective trusts, certificates of deposit, treasury bills, and other short-term debt securities. Short-term debt securities are valued based on observable market data by the trust banks pricing vendor. Other securities with model-derived valuation inputs that are observable are also classified as Level 2 investments. Investments with unobservable valuation inputs are classified as Level 3 investments.

The following investments are valued at net asset value (NAV) as a practical expedient. The NAV per share (or its equivalent, such as member units or an ownership interest in partners' capital to which a proportionate share of net assets is attributed) is used as a practical expedient to estimate fair value. This practical expedient is not used when it is determined to be probable that the fund will sell the investment for an amount different than the reported NAV. These investments are primarily short-term investments, common collective trusts, commingled funds, and partnership/joint venture interests.

Short-Term Investments

The objective of short-term investments is to provide liquidity and meet short-term cash needs. Short-term investments are used to provide diversification and preserve principal. The underlying holdings include commercial paper, common collective trusts, certificates of deposit, treasury bills, and other types of investment-grade short-term debt securities. The short-term investments are valued each business day and provide daily liquidity.

BNYM EB Temporary Investment Fund

The BNYM EB Temporary Investment Fund's redemption frequency and redemption notice period are both daily. The Plan has no unfunded commitments.

American Electric Power System Retirement Plan

Notes to Financial Statements

JPMorgan Long Duration Fund

The objective of the JPMorgan Long Duration Fund is to track the performance of the Bloomberg Barclay's Long Government/Credit Index. The majority of the holdings in the fund are corporate or government bonds. The redemption frequency and redemption notice period are daily. The Plan has no unfunded commitments. The fund may suspend the valuation of assets or the right to make redemptions at management's discretion when redemptions would not be reasonably practicable and are not deemed to be in the best interest of the fund or its shareholders.

Vontobel India Fund

The Vontobel India Fund is an open-ended commingled fund that is a 103-12 investment entity that is held as a component of a separately managed global equity portfolio. The objective of the fund is to realize capital growth and generate income through investments in equities domiciled in the country of India as part of an overall portfolio that tracks the Morgan Stanley Capital International All-Country World Index (MSCI). The underlying holdings are equity securities (e.g., common stocks), and the fund will invest at least 75% of its assets in companies that have a registered office in India. The redemption frequency and the redemption notice period are daily. The Plan has no unfunded commitments. The fund may suspend the valuation of assets or the right to make redemptions at management's discretion when redemptions would not be reasonably practicable and are not deemed to be in the best interest of the fund or its shareholders.

Mellon Capital All-Country World Index Fund

The Mellon Capital All-Country World Index (ACWI) Fund is a common collective trust that is independently audited each year. The fund's objective is to track the performance of the MSCI All Country World Index. The fund is part of a global equity strategy and is used to provide investment returns and to diversify portfolio holdings. Redemption frequency is daily, and the redemption notice period is two days. The Plan has no unfunded commitments. The fund may suspend the valuation of assets or the right to make redemptions at management's discretion when redemptions would not reasonably be practicable and are not deemed to be in the best interest of the fund or its shareholders.

Alternative Investments

The objective of the alternative investments portfolio is to add return and provide diversification. Alternative investments are not actively traded, and typically require a long-time horizon to evaluate investment performance. The Plan uses limited partnerships and commingled funds to invest across the alternative credit spectrum. The underlying holdings are currently composed of high-yield bonds, bank loans, and emerging market debt. Alternative investment funds are used to enhance holdings diversity. At December 31, 2022 and 2021, the Plan holds investments of \$55,996,935 and \$135,876,680, respectively, in limited partnerships and of \$0 and \$39,134,428, respectively, in commingled funds across the alternative investment spectrum. Redemption frequencies for the commingled funds range from daily to quarterly, with redemption notice periods ranging from one day to 90 days. At December 31, 2022 and 2021, the Plan has no unfunded commitments. Investments in these limited partnerships are not eligible for immediate redemption.

American Electric Power System Retirement Plan

Notes to Financial Statements

Included in the alternative investment designation is \$264,068,977 and \$274,175,780 of private equity investments at December 31, 2022 and 2021, respectively, whose portfolio objective is to add return and provide diversification. Private equity investments are not actively traded, and typically require a long-time horizon to evaluate investment performance. The Plan uses limited partnerships to invest across the private equity spectrum. The private equity holdings are with multiple general partners who help monitor the investments and provide investment selection and expertise. The private equity portfolio has \$109,015,103 and \$102,935,963 in unfunded commitments as of December 31, 2022 and 2021, respectively. The portfolio does not have a readily determinable fair value and is illiquid. Investments in these limited partnerships are not eligible for immediate redemption. The Plan generally expects to liquidate the limited partnerships within three to 15 years.

Real Estate

The objective of the real estate portfolio is to add return, provide diversification, and hedge against inflation. Real estate investments are not actively traded, and typically require a long-time horizon to evaluate investment performance. The Plan uses external real estate managers to invest in commingled funds and limited partnerships that hold real estate properties. At December 31, 2022 and 2021, the Plan holds investments of \$277,164,428 and \$232,800,154, respectively, in limited partnerships. Redemption frequencies for the commingled funds range from none to quarterly, with redemption notice periods ranging from 30 to 90 days. To mitigate investment risk in the real estate portfolio, commingled real estate funds are used to ensure that holdings are diversified by region, property type, and risk classification. The real estate portfolio has \$49,277,020 and \$57,927,907 in unfunded commitments as of December 31, 2022 and 2021, respectively. Limited partnerships have original terms averaging eight to 12 years, although those periods may be subsequently extended.

Infrastructure

The objective of the infrastructure portfolio is to add return, provide diversification, and hedge against inflation. Infrastructure investments are not actively traded, and typically require a long-time horizon to evaluate investment performance. The Plan uses limited partnerships to invest across the infrastructure spectrum. To mitigate investment risk in the infrastructure portfolio, infrastructure funds are used to ensure that holdings are diversified by region, property type, and risk classification. Investments in these limited partnerships are not eligible for immediate redemption. The infrastructure portfolio has \$16,987,571 and \$29,137,344 in unfunded commitments as of December 31, 2022 and 2021, respectively, and have original terms averaging ten to 25 years.

Allocated Insurance Contracts

The Plan has allocated insurance contracts for retirees who were covered under the Plan in prior years. These contracts remain intact, and no additional contracts have been purchased. The activity related to the allocated insurance contracts for retirees receiving benefits is excluded from the financial statements.

American Electric Power System Retirement Plan

Notes to Financial Statements

Actuarial Present Value of Accumulated Plan Benefits

Accumulated plan benefits are those future periodic payments, including lump-sum distributions that are attributable under the Plan's provisions to service rendered by employees as of the valuation date, but excluding those covered by allocated insurance contracts. Accumulated plan benefits include benefits expected to be paid to (1) retired or terminated employees or their beneficiaries, (2) beneficiaries of employees who have died, and (3) present employees or their beneficiaries. The actuarial present value of accumulated plan benefits is determined by an independent actuary and is the amount that results from applying actuarial assumptions to adjust the accumulated plan benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements, such as for death, disability, withdrawal, or retirement) between the valuation date and the expected date of payment. Assumptions include, but are not limited to, retirement ages and discount rate.

Actuarial Assumptions

The significant actuarial assumptions used in the valuation of the Plan at December 31, 2022 and 2021 are summarized as follows:

Actuarial cost method	Unit credit
Discount rate	2022: 7.50% and 2021: 5.25%
Mortality basis	Pri-2012 mortality table without collar or quartile adjustments and projected forward on a generational basis using an adjusted version of MP-2021
Average retirement age	63

The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated plan benefits.

The most significant changes in actuarial assumptions between 2022 and 2021 was the increase in the discount rate.

Benefit Payments

Benefit payments are recorded when paid.

Administrative and Other Expenses

The Plan makes annual premium payments to the Pension Benefit Guaranty Corporation (the PBGC), which guarantees payment of certain retirement benefits in the event the Plan cannot meet its obligations.

The Plan pays investment advisory and management fees and other fees in connection with the maintenance and administration of the Plan and its trust. Personnel and facilities of the Company are provided at no cost to the Plan. Until August 7, 2019, an outside firm, Mercer HR Services, LLC (Mercer), performed services relative to the Plan, including, but are not limited to, administration of plan eligibility, participation, benefit calculations, participant communications, data maintenance

American Electric Power System Retirement Plan

Notes to Financial Statements

and disbursement processing, and provision of personnel to respond to participant inquiries. Effective August 7, 2019, Morneau-Shepell Limited (Morneau) took over Mercer's role as a part of Morneau's acquisition of Mercer's book of business. On May 17, 2021, Morneau changed the company name to LifeWorks, Inc. (LifeWorks). Fees paid to Mercer and Lifeworks (formally Morneau) for these services have been presented as administrative expenses in the statements of changes in net assets available for benefits.

Use of Estimates

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities, and the actuarial present value of accumulated plan benefits at the date of the financial statements. Actual results could differ from those estimates.

Risks and Uncertainties

Contributions to the Plan and the accumulated plan benefits are reported based on certain assumptions pertaining to interest rates, inflation rates, and employee demographics. Due to the changing nature of these assumptions, it is at least reasonably possible that changes in these assumptions will occur in the near term and, due to the uncertainties inherent in setting assumptions, that the effect of such changes could be material to the financial statements. Investment securities are exposed to various risks, such as interest rate, market, and credit risks. It is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the financial statements.

Derivatives

The Plan may hold various instruments that meet the definition of a derivative under Financial Accounting Standards Board (FASB) ASC Topic 815, *Derivatives and Hedging*, including futures contracts. The Plan's primary objective in holding these derivatives is to hedge investment risk. Derivatives are not used to fundamentally increase the risk/return profile of the portfolio relative to the benchmark for the portfolio, nor to invest in asset classes that are not consistent with the benchmark or the approved strategy for the portfolio. Derivatives held by the Plan are recorded at their fair value, and changes in fair value are recorded as additions (deductions) to net assets attributable to net (depreciation) appreciation in fair value of investments in the accompanying statements of changes in net assets available for benefits.

Subsequent Events

The Plan has evaluated subsequent events through October 13, 2023, the date the financial statements were available to be issued.

American Electric Power System Retirement Plan

Notes to Financial Statements

3. Certified Investment Information

The Plan Administrator has elected the method of annual reporting compliance permitted by ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Accordingly, The Bank of New York Mellon/BNY Mellon, N.A., a qualified institution, has certified that the following investment information included in the accompanying financial statements and ERISA-required supplemental schedules is complete and accurate:

- Investments as shown in the statements of net assets available for benefits as of December 31, 2022 and 2021, excluding partnership/joint venture interests and securities on loan.
- Investment income as shown in the statements of changes in net assets available for benefits for the years ended December 31, 2022 and 2021, excluding investment activity related to the partnership/joint venture interests of \$9,680,045 and \$13,934,948 for the years ended December 31, 2022 and 2021, respectively, and securities lending of \$216,247 and \$388,507 for the years ended December 31, 2022 and 2021, respectively.
- Investment information included in the supplemental Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year) as of December 31, 2022 and Schedule H (Form 5500), Line 4j - Schedule of Reportable Transactions for the year ended December 31, 2022 as shown on the ERISA-required supplemental schedules, excluding partnership/joint venture interests and securities on loan.

At the request of the Plan Administrator, the Plan's independent auditors did not perform auditing procedures with respect to this certified investment information, except for comparing such certified investment information to the related investment information in the financial statements, including reading the disclosures related to the investment information to assess whether they are in accordance with the presentation and disclosure requirements of GAAP, and in the ERISA-required supplemental schedules, including assessing whether the supplemental schedules are in conformity with the DOL's Rules and Regulations for Reporting and Disclosure under ERISA.

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American Electric Power System Retirement Plan

Notes to Financial Statements

4. Fair Value Measurements

For a discussion of fair value accounting and the classification of assets within the fair value hierarchy, see the Fair Value Measurement of Assets section of Note 2.

December 31, 2022

	Investments, at Fair Value	Level 1	Level 2
Short-term investments	\$ 64,913,710	\$ -	\$ 64,913,710
Equity - corporate stock	746,662,146	746,661,396	750
Fixed income:			
U.S. government obligations	1,055,257,749	(553,113)	1,055,810,862
Corporate obligations	1,033,666,414	-	1,033,666,414
State and local government obligations	37,006,345	-	37,006,345
Collateral held under securities lending:			
Short-term investments	13,288,861	-	13,288,861
Fixed-income securities - U.S. government obligations	17,700,189	-	17,700,189
Fixed-income securities - U.S. agency obligations	54,534,432	-	54,534,432
Net assets held in 401(h) account - fixed income:			
U.S. government obligations	48,394,255	-	48,394,255
Corporate obligations	50,498,298	-	50,498,298
State and local government obligations	2,505,031	-	2,505,031
Total Investments, in the fair value hierarchy	3,124,427,430	\$ 746,108,283	\$ 2,378,319,147
Investments, measured at NAV as a practical expedient:			
Short-term investments	577,332		
Common collective trusts and commingled fund:			
BNYM EB Temporary Investment Fund	57,788,150		
Vontobel India Fund	9,924,454		
Mellon Capital All-Country World Index Fund	370,312,704		
Partnership/joint venture interests:			
Alternative investments	320,065,912		
Real estate	109,285,886		
Infrastructure	277,164,428		
Net assets held in 401(h) account:			
Short-term investments	6,704,729		
Common collective trusts and commingled fund:			
JPM Long Duration Fund	98,906,964		
Mellon Capital All-Country World Index Fund	70,213,069		
Total Investments, at fair value	\$ 4,445,371,058		

American Electric Power System Retirement Plan

Notes to Financial Statements

December 31, 2021

	Investments, at Fair Value	Level 1	Level 2
Short-term investments	\$ 64,336,269	\$ -	\$ 64,336,269
Equity - corporate stock	855,349,321	855,348,571	750
Fixed income:			
U.S. government obligations	1,559,089,475	110,385	1,558,979,090
Corporate obligations	1,558,022,705	-	1,558,022,705
State and local government obligations	57,192,462	-	57,192,462
Collateral held under securities lending:			
Short-term investments	41,966,749	-	41,966,749
Fixed-income securities - U.S. government obligations	18,603,612	-	18,603,612
Fixed-income securities - U.S. agency obligations	79,613,795	-	79,613,795
Net assets held in 401(h) account - fixed income:			
U.S. government obligations	70,063,960	-	70,063,960
Corporate obligations	82,360,935	-	82,360,935
State and local government obligations	4,900,815	-	4,900,815
Total Investments, in the fair value hierarchy	4,391,500,098	\$ 855,458,956	\$ 3,536,041,142
Investments, measured at NAV as a practical expedient:			
Short-term investments	147,148		
Common collective trusts and commingled fund:			
BNYM EB Temporary Investment Fund	53,346,774		
Vontobel India Fund	11,607,527		
Mellon Capital All-Country World Index Fund	452,739,483		
Partnership/joint venture interests:			
Alternative investments	449,186,888		
Real estate	232,800,154		
Infrastructure	92,164,622		
Net assets held in 401(h) account:			
Short-term investments	6,650,108		
Common collective trusts and commingled fund:			
JPM Long Duration Fund	157,428,631		
Mellon Capital All-Country World Index Fund	110,830,277		
Total Investments, at fair value	\$ 5,958,401,710		

The Plan's policy is to recognize transfers between levels of the fair value hierarchy as of the actual date of the event of change in circumstances that caused the transfer.

American Electric Power System Retirement Plan

Notes to Financial Statements

5. Securities Lending

The Plan has an agreement with BNYM, which acts as Trustee and custodian for the Plan's investments and authorizes the bank to lend securities held in the Plan's accounts to third parties. The bank must obtain collateral from the borrower in the form of cash or securities. Both the collateral and the securities loaned are marked-to-market on a daily basis, with additional collateral obtained or refunded as necessary. In the event that the loaned securities are not returned by the borrower, the bank will, at its own expense, either replace the loaned securities or, if unable to purchase those securities on the open market, credit the Plan's accounts with cash equal to the fair value of the loaned securities. All loans are collateralized by at least 102% of the loaned asset's market value and the collateral invested.

The Plan receives net revenue derived from all securities lending activities and pays the Trustee a fee for providing the service. Interest and dividend income reported in the statements of changes in net assets available for benefits includes \$216,247 and \$388,507 earned by the Plan during the years ended December 31, 2022 and 2021, respectively, in conjunction with the securities lending program.

Although the Plan's securities lending activities are collateralized as described above, and although the terms of the securities lending agreement with the custodial bank require the bank to comply with government rules and regulations related to the lending of securities held by ERISA plans, the securities lending program involves both market and credit risk. In this context, market risk refers to the possibility that the borrower of securities will be unable to collateralize the loan upon a sudden material change in the fair value of the loaned securities or the collateral, or that the bank's investment of collateral received from the borrowers of the Plan's securities may be subject to unfavorable market fluctuations. Credit risk refers to the possibility that counterparties involved in the securities lending program may fail to perform in accordance with the terms of their contracts.

At December 31, 2022 and 2021, the fair value of securities loaned was \$83,332,564 and \$136,827,701, respectively; the collateral held was \$85,523,482 and \$140,184,156, respectively. Collateral received consisted of U.S. government obligations, U.S. agency obligations, and cash totaling \$83,893,911 and \$138,775,997 as of December 31, 2022 and 2021, respectively. The cash collateral totaled \$13,288,861 and \$41,966,749 as of December 31, 2022 and 2021, respectively, and was invested in various pooled investments that hold short-term and fixed-income securities (including repurchase agreements). The noncash collateral received totaled \$72,234,621 and \$98,217,407 as of December 31, 2022 and 2021, respectively. In accordance with accounting standards, the value of the collateral held and a corresponding liability to return the collateral have been reported on the accompanying statements of net assets available for benefits.

6. 401(h) Account

The Plan includes a medical benefit (health and welfare) component in addition to the normal retirement benefits to fund a portion of the postretirement obligations for certain retirees and their beneficiaries in accordance with Section 401(h) of the IRC. A separate account has been established and maintained in the Plan for the net assets related to the health and welfare component (401(h) account). In accordance with IRC Section 401(h), the Plan's investments in the 401(h) account may not be used for, or diverted to, any purpose other than providing health and welfare benefits for retired participants, their spouses, and dependents. The Trustee holds the assets of the 401(h) account.

American Electric Power System Retirement Plan

Notes to Financial Statements

Any assets transferred to the 401(h) account from the defined benefit pension plan in a qualified transfer of excess pension plan assets (and any respective income) that are not used during the plan year must be transferred out of the account to the pension plan. There were no qualified transfers to the 401(h) account for the years ended December 31, 2022 and 2021.

The related obligations for health and welfare benefits are not included in the Plan's statements of accumulated plan benefits but are reflected as plan obligations in the financial statements of the American Electric Power System Comprehensive Medical Plan (the Medical Plan), the health and welfare plan that covers plan participants of the 401(h) component. Plan participants do not contribute to the 401(h) account. Employer contributions or qualified transfers to the 401(h) account are determined annually and are at the discretion of the Company.

Effective July 1, 2018, the 401(h) account is designed to pay 90.5% of the retiree medical benefits for eligible plan participants (other than those who are defined as key employees or whose benefits have been collectively bargained) and their dependents under the Medical Plan. No account has been established under the Plan for the purpose of paying the remaining 9.5% of the health and welfare benefits to those participants and their dependents, although the Company maintains certain trusts in connections with the Medical Plan that may be used for that purpose.

The net assets available for postretirement health and welfare benefits in the 401(h) account and the changes in net assets are as follows:

<i>December 31,</i>	2022	2021
Investments, at fair value:		
Common collective trusts	\$ 169,120,033	\$ 268,258,908
Corporate and government bonds	98,892,553	152,424,895
Other investments	9,209,760	11,550,923
Accrued income and other receivables	1,074,444	1,150,140
Fees payable by 401(h) and other	(77,025)	(355,716)
Net Assets Held in 401(h) Account	\$ 278,219,765	\$ 433,029,150
Changes in net assets in 401(h) account:		
Net (depreciation) appreciation in fair value of investments	\$ (104,802,089)	\$ 7,461,293
Interest and dividend income	4,293,135	4,878,624
Administrative expenses	(354,351)	(617,781)
Retiree medical reimbursement	(53,946,080)	(56,715,982)
Net Decrease in Net Assets Held in 401(h) Account	\$ (154,809,385)	\$ (44,993,846)

7. Derivatives

The Plan has futures contracts with a current notional amount of \$93,687,149 and \$18,473,622 at December 31, 2022 and 2021, respectively. The notional amount represents the contract amount, not the amount at risk. The futures are marked-to-market on a daily basis and are presented within U.S. government obligations on the statements of net assets available for benefits. The net realized and unrealized gain/loss is recorded in investment income (loss) on the statements of changes in net assets available for benefits.

American Electric Power System Retirement Plan

Notes to Financial Statements

The Plan also holds forward contracts in a loss position, which are also presented within U.S. government obligations in the statements of net assets available for benefits. Forward contracts are valued based on inputs derived from observable market data.

The primary risk managed by the Plan in using interest rate forward and futures contracts is the fluctuation of interest rates on the investments of the Plan. On behalf of the Plan, investment managers entered into interest rate forward contracts, which are agreements to exchange interest rates at a specified future date at a specified rate, the terms of which are not standardized on an exchange. The interest rate contracts are intended to minimize the effect of interest rate fluctuations on the performance of investments. Risk arises from both the possible inability of the counterparties to meet the terms of the contracts (credit risk) and from the movements in foreign currency exchange rates (market risk). The contracts are recorded at fair value on the date the contract is entered into, which is typically zero.

The following tables list the fair value of derivative instruments held by the Plan, by contract type and on a gross basis:

December 31, 2022

	Asset Derivatives, Fair Value	Liability Derivatives, Fair Value
Contract type:		
Forward foreign currency exchange contracts	\$ 16,128,028	\$ 16,361,706
Future contracts	1,010,080	1,563,194
Total	\$ 17,138,108	\$ 17,924,900

December 31, 2021

	Asset Derivatives, Fair Value	Liability Derivatives, Fair Value
Contract type:		
Forward foreign currency exchange contracts	\$ 24,868,391	\$ 24,933,988
Treasury bond forwards	16,380,040	11,246,781
Future contracts	2,057,527	1,947,142
Total	\$ 43,305,958	\$ 38,127,911

Unrealized losses on derivative instruments held by the Plan were \$(786,791) and \$(26,219) for the years ended December 31, 2022 and 2021, respectively. Unrealized gains and losses are recorded in net (depreciation) appreciation in fair value of investments on the statements of changes in net assets available for benefits.

The Plan is subject to master netting agreements with certain counterparties. These agreements set the terms for Over-the-Counter (OTC) derivative transactions between two counterparties, including setting protections should one of the counterparties default. One of the terms in the agreement is that any payments from OTC derivatives transactions between two counterparties are net together, which allows for one payment to be made by whichever counterparty in the agreement

American Electric Power System Retirement Plan

Notes to Financial Statements

owes the most, rather than multiple payments being made between parties for each transaction. Collateral was pledged to counterparties against derivative assets and liabilities in the amount of \$4,597,328 and \$3,106,758 as of December 31, 2022 and 2021, respectively.

8. Federal Income Tax

The Plan obtained its latest favorable determination letter dated August 2, 2021 in which the Internal Revenue Service (IRS) stated that the Plan, as then designed, was in compliance with the applicable requirements of the IRC and related guidance under consideration for which the application was submitted (the 2017 Required Amendments List). Although the Plan has been amended since receiving the determination letter, the Company believes that the Plan is currently designed and operated in compliance with the applicable requirements of the IRC and that the Plan's trust continues to be tax-exempt. Therefore, no provision for income taxes has been included in the Plan's financial statements.

GAAP requires Plan management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan is subject to routine audits by taxing jurisdictions. However, there are currently no audits for any tax periods in progress.

The Plan may incur Unrelated Business Income Tax depending on a number of factors, including whether the trust (a) realizes non-exempt debt-financed income, or (b) realizes or is allocated unrelated business income through its investments. The Plan incurred Unrelated Business Income Tax liabilities for the years ended December 31, 2022 and 2021. The estimated Unrelated Business Income Tax for the years ended December 31, 2022 and 2021 was considered immaterial to the financial statements.

9. Plan Termination

The Company expects and intends to continue the Plan indefinitely but reserves the right to amend or terminate it. If the Plan is terminated, the net assets of the Plan will be distributed to participants in an order of priority determined in accordance with ERISA and its applicable regulations and in the applicable provisions of the Plan document. Certain benefits under the Plan are insured by the PBGC if the Plan terminates. Generally, the PBGC guarantees most vested normal age retirement benefits, early retirement benefits, and certain disability and survivor's pensions. However, the PBGC does not guarantee all types of benefits under the Plan and the amount of benefit protection is subject to certain limitations. Vested benefits under the Plan are guaranteed at the level in effect on the date of the Plan's termination, subject to a statutory ceiling on the amount of an individual's monthly benefit.

Whether all participants receive benefits should the Plan be terminated at some future time will depend on the adequacy of the Plan's net assets to provide those benefits, the priority of those benefits to be paid, and the level and type of benefits guaranteed by the PBGC at that time. Some benefits may be fully or partially provided by the existing assets and the PBGC guaranty, while other benefits may not be provided for at all.

American Electric Power System Retirement Plan

Notes to Financial Statements

10. Contingencies

Four participants in the Plan filed a class action complaint in December 2021 in the U.S. District Court for the Southern District of Ohio against AEPSC and the Plan. When the Plan's benefit formula was changed in the year 2000, AEP provided a special provision for employees hired before January 1, 2001, allowing them to continue benefit accruals under the then-benefit formula for a full ten years alongside of the new cash balance benefit formula then being implemented. Employees who were hired on or after January 1, 2001 accrued benefits only under the new cash balance benefit formula. The plaintiffs asserted a number of claims on behalf of themselves and the purported class, including that: (a) the Plan violated the requirements under ERISA intended to preclude backloading the accrual of benefits to the end of a participant's career, (b) the Plan violated the age discrimination prohibitions of ERISA and the Age Discrimination in Employment Act, and (c) AEP failed to provide required notice regarding the changes to the Plan. Among other relief, the complaint sought reformation of the Plan to provide additional benefits and the recovery of plan benefits for former employees under such reformed plan. The plaintiffs previously had submitted claims for additional plan benefits to AEP, which were denied. On February 15, 2022, AEPSC and the Plan filed a motion to dismiss the complaint alleging the plaintiffs' claims were insufficient as a matter of law. On August 16, 2022, the District Court granted the motion filed by the Company and the AEP pension plan to dismiss the complaint without prejudice. The plaintiffs filed a motion with the District Court for leave to file an amended complaint which the court denied on December 1, 2022. The plaintiffs did not file an appeal by the deadline of January 3, 2023. At this time, no litigation is pending on this issue.

11. Reconciliation of the Financial Statements to Form 5500

The following is a reconciliation of net assets available for benefits per the financial statements to Form 5500:

<i>December 31,</i>	2022	2021
Net Assets Available for Benefits , per the financial statements	\$ 4,107,163,331	\$ 5,395,849,484
Net assets held in 401(h) account included as assets in Form 5500	278,219,765	433,029,150
Net Assets Available for Benefits , per Form 5500	\$ 4,385,383,096	\$ 5,828,878,634

The following is a reconciliation of the statements of changes in net assets available for benefits to Form 5500:

<i>Year ended December 31,</i>	2022	2021
Net Decrease in Net Assets Available for Benefits , per the financial statements	\$ (1,288,686,153)	\$ (167,792,869)
Net investment (loss) income from 401(h) account	(100,508,954)	12,339,917
Administrative expenses related to 401(h) account	(354,351)	(617,781)
Transfer from 401(h) account to Medical Plan	(53,946,080)	(56,715,982)
Net Loss , per Form 5500	\$ (1,443,495,538)	\$ (212,786,715)

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 26a Schedule of Active Participant Data as of January 1, 2022

Attained Age	Attained Years of Credited Service ¹										Total
	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	
Under 25		291	7								298
		87,387									87,750
25-29		849	352	1							1,202
		90,168	107,157								95,175
30-34		773	740	231	11						1,755
		92,489	111,143	120,579							104,175
35-39		580	642	485	295	4					2,006
		97,774	111,747	123,656	125,123						112,532
40-44		390	444	436	471	200	2				1,943
		99,253	112,268	121,769	130,889	133,424					118,491
45-49		257	336	351	434	343	97	3			1,821
		101,894	112,340	120,784	124,628	131,920	140,519				120,632
50-54	1	221	251	255	315	339	265	236	11		1,894
		101,908	110,460	119,644	126,316	138,359	138,504	142,923			126,464
55-59		169	148	168	226	295	222	550	468	56	2,302
		101,557	110,534	112,218	124,513	124,352	126,395	136,085	132,721	123,709	125,607
60-64		78	119	105	139	163	139	250	512	545	2,050
		98,340	107,036	113,225	124,012	120,249	117,219	120,698	130,334	123,118	121,674
65-69		17	35	30	26	35	28	51	69	201	492
			98,248	113,401	122,721	118,790	103,520	129,541	131,481	134,600	124,690
70 & over		3	9	9	5	5	1	6	3	33	74
										118,878	112,761
Total	1	3,628	3,083	2,071	1,922	1,384	754	1,096	1,063	835	15,837
		94,893	110,687	120,210	126,324	130,300	129,849	133,543	131,492	125,754	116,613

¹ Age and service for purposes of determining category are based on exact (not rounded) values.

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Schedule SB, Line 26 - Schedule of Active Participant Data as of January 1, 2022

Number and average account balance distributed by attained age and attained years of credited service

Attained Age	Attained Years of Credited Service ²										Total
	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	
Under 25		278	7								285
		5,450									5,584
25-29		841	351	1							1,193
		7,765	18,084								10,831
30-34		767	736	231	11						1,745
		9,204	22,669	42,577							19,575
35-39		578	642	481	295	4					2,000
		10,872	27,371	55,393	72,862						36,147
40-44		386	444	435	468	200	2				1,935
		13,188	31,081	63,160	87,425	111,615					56,799
45-49		255	335	348	431	342	97	3			1,811
		14,480	36,865	73,640	99,512	134,595	169,535				81,571
50-54	1	220	251	255	315	338	264	236	11		1,891
		17,140	40,851	85,060	116,645	162,974	200,112	242,667			127,072
55-59		169	148	168	224	295	222	549	467	56	2,298
		18,975	46,871	90,018	130,756	170,961	215,433	261,325	292,233	316,499	196,031
60-64		77	118	105	139	163	139	250	512	545	2,048
		19,653	49,280	99,459	143,615	185,362	217,819	269,870	327,880	348,763	255,685
65-69		17	34	30	26	34	28	51	68	201	489
			53,743	106,831	159,201	197,267	210,434	311,361	371,729	431,764	306,930
70 & over		3	9	9	5	5	1	6	3	32	73
										461,304	290,228
Total	1	3,591	3,075	2,063	1,914	1,381	753	1,095	1,061	834	15,768
		10,890	30,004	68,327	102,815	153,817	204,133	261,425	314,189	370,919	111,890

² Age and service for purposes of determining category are based on exact (not rounded) values.

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Schedule SB, Part V Statement of Actuarial Assumptions/Methods

Economic Assumptions

Interest rate basis:

- Applicable month (published) October 2021
- Yield curve basis Segment rates

Funding interest rates:

	Reflecting Corridors	Not Reflecting Corridors
■ First segment rate	4.75%	1.01%
■ Second segment rate	5.18%	2.65%
■ Third segment rate	5.92%	3.34%
■ Effective interest rate	5.33%	2.75%

Annual rates of increase

- Compensation:

	Age	Rate
– Representative rates		
	< 25	11.50%
	25 – 29	8.50%
	30 – 34	7.00%
	35 – 39	6.00%
	40 – 44	5.00%
	45 – 49	4.50%
	50 – 54	4.00%
	55 – 59	3.75%
	60 – 64	3.50%
	65 – 69	3.25%
	> 70	3.00%
– Weighted average		5.05%
- Cash balance crediting rate 4.00%
- Lump sum/annuity conversion rate October 2021 segment rates
- Future Social Security wage bases 3.50%
- Statutory limits on compensation N/A
- Expected rate of return on assets for prior year 4.75%, but not greater than the third segment rate
- Plan-Related Expenses The amount included for plan-related expenses in the valuation year equals the amount of administrative expenses paid from the trust in the prior year. Under this assumption, the amount included for 2022 is \$7,251,470.

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Demographic Assumptions

Inclusion date	The valuation date coincident with or next following the date on which the employee becomes a participant.
New or rehired employees	It was assumed there will be no new or rehired employees.
Mortality	
■ Healthy	Separate rates for non-annuitants (based on RP-2014 "Employees" table without collar or amount adjustments, adjusted backward to 2006 with MP-2014, and then projected forward with a static projection as specified in the regulations under §1.430(h)(3)-1 using Scale MP-2020) and annuitants (based on RP-2000 "Healthy Annuitants" table without collar or amount adjustments, adjusted backward to 2006 with MP-2014, and then projected forward with a static projection as specified in the regulations under §1.430(h)(3)-1 using Scale MP-2020). For ASC 960: The Pri-2012 Private Retirement Plans mortality tables with sex-distinct rates for employees, retirees, and contingent survivors, with no collar or amount adjustment, and a fully generational mortality improvement projection using Scale MP-2021 projecting from the base year of 2012.
■ Disabled	Alternative disabled life mortality tables as defined under Revenue Ruling 96-7 For ASC 960: The Pri-2012 Private Retirement Plans disabled mortality tables with separate rates for males and females and a fully generational mortality improvement projection using Scale MP-2021 projecting from the base year of 2012.
■ Lump sum/annuity conversion	Pension Protection Act unisex mortality table for 2022.
Termination	Rates varying by service:

Percentage leaving during the year	
Service	Rate
<3	7.00%
3 – 4	6.00%
5 – 9	5.00%
10 – 14	4.00%
15 – 19	2.50%
20 +	1.50%

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Disability

Rates apply to employees not eligible to retire and vary by age and sex as indicated by the following sample values:

Percentage becoming disabled during the year		
Age	Male	Female
20	0.060%	0.090%
30	0.060%	0.090%
40	0.074%	0.110%
50	0.178%	0.267%
60	0.690%	1.035%

Retirement

Rates varying by age; average retirement age 63:

Percentage retiring during the year	
Age	Rate
55 – 58	4.00%
59	6.00%
60	7.50%
61	9.00%
62 – 64	16.00%
65 – 67	25.00%
68 – 69	20.00%
70 +	100.00%

Benefit commencement date:

- Preretirement death benefit The later of the death of the active participant or the date the participant would have attained age 55.
- Deferred vested benefit (active participants) The later of age 55 or termination of employment.
- Deferred vested benefit (current deferred vested) The later of age 65 or current age
- Disability benefit Upon disablement.
- Retirement benefit Upon termination of employment.

Form of payment

50% lump sum; 50% annuity for retirement eligible East grandfathered participants and 85% lump sum; 15% annuity for all other participants. Married participants are assumed to elect the 50% joint and survivor annuity and unmarried participants are assumed to elect the single life annuity. No other optional form of payment election is assumed.

For current deferred vested participants with a cash balance type benefit, 100% lump sum is assumed. For all other current deferred vested participants 100% annuity is assumed.

Percent married

80% of male participants; 70% of female participants.

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Spouse age	Wives are assumed to be three years younger than husbands.
Valuation pay	2022 base salary pay (Grandfathered) – not estimated due to freeze of final average pay accruals at December 31, 2010. 2022 expanded pay (Cash Balance) – sum of the following updated one year according to the salary increase assumption: (i) 2022 base salary (ii) a 15% increase for overtime eligible employees and a target bonus percent increase for incentive-eligible employees
At-risk assumptions	If at-risk calculations are required, all participants eligible to elect benefits during the current and subsequent ten plan years are assumed to commence benefits at the earliest possible date under the plan, but not before the end of the current plan year, except in accordance with the regular valuation assumptions. In addition, all participants (not just those eligible to begin benefits within the next 11 years) are assumed to elect the most valuable form of benefit under the plan, which is usually a joint and survivor form of payment.
Timing of benefit payments	Annuity payments are payable monthly at the beginning of the month and lump sum payments are payable on date of decrement.

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Methods

Valuation date	First day of plan year.
Funding target	Present value of accrued benefits.
Target normal cost	Present value of benefits expected to accrue during plan year plus plan-related expenses expected to be paid from the trust (based on actual trust expenses paid in previous year, adjusted by the difference between the prior and expected current year PBGC premiums).
Actuarial value of assets	Average of the fair market value of assets on the valuation date and the six immediately preceding months, adjusted for contributions, benefit/expense payments and expected investment returns. The average asset value must be within 10% of fair value, including contributing receivable. The method of computing the actuarial value of assets complies with rules governing the calculation of such values under PPA. These rules produce smoothed values that reflect the underlying market value of plan assets but fluctuate less than the market value. As a result, the actuarial value of assets will be lower than the market value in some years and greater in other years. However, over the long term under PPA's smoothing rules, the method has a bias to produce an actuarial value of assets that is below the market value of assets.
Benefits Not Valued	All benefits were valued except: – Any liabilities that may be reinstated in the event of reemployment – The alternate benefit formula for members who did not elect to withdraw their employee contributions – Any liabilities relating to members' unwithdrawn employee contributions – Liabilities related to special benefits as a result of termination due to downsizing and restructuring

Data Sources

WTW used participant and asset data as of January 1, 2022, supplied by LifeWorks, the third-party administrator for AEP. Data were reviewed for reasonableness and consistency, but no audit was performed. Based on discussions with the plan sponsor, assumptions or estimates were made when data were not available, and the data was adjusted to reflect any significant events that occurred between the date the data was collected and the measurement date. We are not aware of any errors or omissions in the data that would have a significant effect on the results of our calculations.

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Assumptions Rationale - Significant Economic Assumptions

Discount rate	The basis chosen was selected by the plan sponsor from among choices prescribed by law, all of which are based on observed market data over certain periods of time.
Expected return on plan assets	We understand that the expected return on assets assumption reflects the plan sponsor's estimate of future experience for trust asset returns, reflecting the plan's current asset allocation and any expected changes during the current plan year, current market conditions and the plan sponsor's expectations for future market conditions. WTW's determination that this assumption does not significantly conflict with what would be reasonable is informed by WTW's Expected Return Estimator model.
Cash balance interest crediting rate	The plan credits interest to cash balance accounts using the 30-year Treasury rate for the September of the preceding year with a minimum rate of 4.00%. The assumption is based on the plan sponsor's long-term expectations of yields on U.S. Treasuries. We believe that the selected assumption does not significantly conflict with what would be reasonable based on market conditions at the measurement date.
Conversion rate for lump sums and annuities	For funding purposes, and as required by IRC 430, lump sum benefits are valued using "annuity substitution", so that the interest rates assumed are effectively the same as described above for the discount rate. For ASC 960, the plan uses IRC 417(e)(3) as its basis to convert between lump sums and annuities. Because the 417(e)(3) interest rates are based on corporate bond yields, the assumption is based on the plan sponsor's long-term expectations of yields on high-quality corporate bonds. We believe that the selected assumption does not significantly conflict with what would be reasonable based on market conditions at the measurement date.
Rate of increase in compensation	Rates of increase in compensation were based on an experience study conducted in 2019, with annual consideration of whether any conditions have changed that would be expected to produce different results in the future. Therefore, we believe this assumption does not significantly conflict with what would be reasonable.

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Rate of increase in national average wages (NAW) (e.g., Social Security wage bases)

The assumed NAW is based on assumed CPI as shown below, plus assumed increases in real wages (the portion of GDP increases that becomes part of wages). Such assumed future increases in real wages are based on a combination of historical averages and an expectation that the future rates will be lower (higher) than historical averages.

Assumptions Rationale - Significant Demographic Assumptions

Mortality

Assumptions used for funding purposes are as prescribed by IRC §1.430(h)(3)-1.

Assumptions used for ASC 960 purposes were selected by the plan sponsor and as required by U.S. GAAP, represent a best estimate of future experience. Therefore, we believe this assumption does not significantly conflict with what would be reasonable.

Termination

Termination rates are based on an experience study conducted in 2019, with annual consideration of whether any conditions have changed that would be expected to produce different results in the future.

Assumed termination rates differ by service because of observed decreases in termination rates as employees attained additional years of service. Therefore, we believe this assumption does not significantly conflict with what would be reasonable.

Retirement

Retirement rates were based on an experience study conducted in 2019, with consideration of whether any conditions have changed that would be expected to produce different results in the future. Therefore, we believe this assumption does not significantly conflict with what would be reasonable.

Form of payment

Rates at which retirees elect lump sums versus annuities are based on an experience study conducted in 2019, with annual consideration of whether any conditions have changed that would be expected to produce different results in the future. Therefore, we believe this assumption does not significantly conflict with what would be reasonable.

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Source of Prescribed Methods

Funding methods

The methods used for funding purposes as described in Appendix A, including the method of determining plan assets, are “prescribed methods set by law”, as defined in the actuarial standards of practice (ASOPs). These methods are required by IRC §430, or were selected by the plan sponsor from a range of methods permitted by IRC §430.

Changes in Assumptions and Methods

Change in assumptions and methods since prior valuation

Other than the statutory changes to mortality and interest rates, there were no funding assumption and method changes since the prior valuation.

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Model Descriptions and Disclosures (in accordance with ASOP No. 56)

Quantify

Quantify is the WTW centrally developed, tested and maintained Global actuarial valuation system. It is used to perform valuations of clients' benefit plans.

Quantify provides the ability to process data, calculate benefits and value benefit liabilities, develop results using applicable standards, and generate client reports.

Quantify parameters provide significant flexibility to model populations and plan designs. Various demographic, economic and benefit related assumptions exist for users to model multiple demographic and economic situations.

Plan liabilities are calculated based on standard actuarial techniques, developing actuarially reasonable results using the population and parameters entered. The calculation and presentation of liabilities in Quantify relies on the assumptions used and the reasonability of the assumptions selected.

Quantify incorporates standard liability methodologies that are intended to reasonably reflect a variety of economic or demographic conditions. The model itself does not evaluate any assumptions entered for reasonableness, consistency or probability of occurrence.

Quantify is designed specifically for these purposes, and we know of no material limitations that would prevent the system from being suitable for these intended purposes. The actuaries signing this report have relied on the actuaries who develop, test and maintain this system, and have also performed a limited review of results to ensure that system parameters have been set appropriately and plan provisions coded correctly.

Expected Return Estimator

The Expected Return Estimator is used to help inform the choice of an expected return assumption (e.g., as one data point to consider) for returns on the assets of the trust.

The tool depends on the capital market assumptions chosen at the starting date of the simulation. These assumptions reflect currently prevailing capital market conditions, assumed future conditions ("normative conditions"), and the transition from the current conditions to the normative ones.

The assumed normative conditions incorporate a blend of historical capital market data and future expectations. The sources consulted in the determination of normative levels include practitioners in our global actuarial and investment consulting practices, plan sponsors, investment managers, economists and academics.

The model includes 22 asset classes, and may not have an appropriate classification for every type of asset a plan may hold, or the allocation provided to us by the client may be oversimplified or inaccurate.

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Schedule SB – Statement by Enrolled Actuary

Plan Sponsor	American Electric Power Service Corporation
EIN/PN	13-4922641/001
Plan Name	American Electric Power System Retirement Plan
Valuation Date	January 1, 2022
Enrolled Actuary	Joseph A. Perko
Enrollment Number	23-06491

The actuarial assumptions that are not mandated by IRC § 430 and regulations, represent the enrolled actuary's best estimate of anticipated experience under the plan, subject to the following conditions:

The actuarial valuation, on which the information in this Schedule SB is based, has been prepared in reliance upon the employee and financial data furnished by the plan administrator and the trustee. The enrolled actuary has not made a rigorous check of the accuracy of this information but has accepted it after reviewing it and concluding it is reasonable in relation to similar information furnished in previous years. The amounts of contributions and dates paid shown in Item 18 of Schedule SB were listed in reliance on information provided by the plan administrator and/or trustee.

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4j - Schedule of Reportable Transactions

EIN: 13-4922641

Plan Number: 001

Year ended December 31, 2022

(a)	(b)		(c)	(d)	(e)	(f)	(g)	(h)	(i)
Identity of Party Involved	Description of Asset (Include Interest Rate and Maturity in Case of a Loan)	Transaction Count	Purchase Price***	Selling Price**	Lease Rental	Expense Incurred with Transaction	Cost of Asset	Current Value of Asset on Transaction Date	Net Gain (Loss)
Category (iii) - A Series of Transactions									
	U S TREASURY NOTE 0.375% 01/31/2026 DD 01/31/21	7	\$ -	\$ 189,412,381			\$ 190,719,169	\$ 189,412,381	\$ (1,306,788)
	U S TREASURY NOTE 0.375% 01/31/2026 DD 01/31/21	6	180,465,486	-			-	180,465,486	-
	U S TREASURY NOTE 0.875% 01/31/2024 DD 01/31/22	15	-	241,228,249			241,721,873	241,228,249	(493,624)
	U S TREASURY NOTE 0.875% 01/31/2024 DD 01/31/22	9	253,478,273	-			-	253,478,273	-
	U S TREASURY NOTE 1.875% 02/15/2032 DD 02/15/22	52	-	210,101,444			213,093,381	210,101,444	(2,991,937)
	U S TREASURY NOTE 1.875% 02/15/2032 DD 02/15/22	79	231,044,175	-			-	231,044,175	-
	U S TREASURY NOTE 2.875% 06/15/2025 DD 06/15/22	11	-	130,706,645			132,173,075	130,706,645	(1,466,430)
	U S TREASURY NOTE 2.875% 06/15/2025 DD 06/15/22	6	165,137,486	-			-	165,137,486	-
	BNYM-M DB SL ACWI FUND	3	134,999,999	-			-	134,999,999	-
	BNYM-M DB SL ACWI FUND	4	-	147,595,551			82,980,921	147,595,551	64,614,630
	AMERICAN ELECTRIC POWER PROP VAR RT 12/31/2049 DD 07/24/08	1293	1,991,521,329	-			-	1,991,521,329	-
	AMERICAN ELECTRIC POWER PROP VAR RT 12/31/2049 DD 07/24/08	1133	-	1,974,256,388			1,974,256,388	1,974,256,388	

* Party-in-interest to the Plan.

** Purchase price and Selling price represent current value of the transaction(s).

There were no category (i), (ii), or (iv) reportable transactions.

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

▶ **Round off amounts to nearest dollar.**

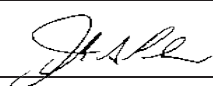
▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan AMERICAN ELECTRIC POWER SYSTEM RETIREMENT PLAN	B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF AMERICAN ELECTRIC POWER SERVICE CORPORATION	D Employer Identification Number (EIN) 13-4922641
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I	Basic Information
1 Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2022</u>	
2 Assets:	
a Market value	2a 5,401,961,722
b Actuarial value	2b 5,375,186,908
3 Funding target/participant count breakdown	
a For retired participants and beneficiaries receiving payment.....	(1) Number of participants 14,390 (2) Vested Funding Target 2,191,512,438 (3) Total Funding Target 2,191,512,438
b For terminated vested participants.....	3,418 236,515,426 236,515,426
c For active participants	15,837 1,579,361,384 1,591,097,722
d Total.....	33,645 4,007,389,248 4,019,125,586
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐	
a Funding target disregarding prescribed at-risk assumptions	4a
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor.....	4b
5 Effective interest rate	5 5.33%
6 Target normal cost.....	
a Present value of current plan year accruals.....	6a 91,784,042
b Expected plan-related expenses	6b 7,251,470
c Total (line 6a + line 6b)	6c 99,035,512

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE	Joseph A. Perko  Signature of actuary	August 30, 2023 Date
Joseph A. Perko	Type or print name of actuary	2306491 Most recent enrollment number
Willis Towers Watson US LLC	Firm name	216-937-4204 Telephone number (including area code)
1001 Lakeside Avenue Suite 1500 Cleveland OH 44114-1172	Address of the firm	

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

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

Schedule SB (Form 5500) 2022
v. 220413

Part II			Beginning of Year Carryover and Prefunding Balances	
		(a) Carryover balance	(b) Prefunding balance	
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	109,577,498	986,183,808	
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0	
9	Amount remaining (line 7 minus line 8)	109,577,498	986,183,808	
10	Interest on line 9 using prior year's actual return of <u>5.31</u> %	5,818,565	52,366,360	
11	Prior year's excess contributions to be added to prefunding balance:			
	a Present value of excess contributions (line 38a from prior year)		0	
	b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.49</u> %		0	
	b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0	
	c Total available at beginning of current plan year to add to prefunding balance		0	
	d Portion of (c) to be added to prefunding balance		0	
12	Other reductions in balances due to elections or deemed elections	0	0	
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	115,396,063	1,038,550,168	

Part III			Funding Percentages	
14	Funding target attainment percentage	14	105.02 %	
15	Adjusted funding target attainment percentage	15	133.74 %	
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	106.05 %	
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%	

Part IV						Contributions and Liquidity Shortfalls	
18 Contributions made to the plan for the plan year by employer(s) and employees:							
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees		
Totals ▶			18(b)	0	18(c)	0	

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:			
a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0	
b Contributions made to avoid restrictions adjusted to valuation date	19b	0	
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	0	
20 Quarterly contributions and liquidity shortfalls:			
a Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No			
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No			
c If line 20a is "Yes," see instructions and complete the following table as applicable:			
Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 4.75 %	2nd segment: 5.18 %	3rd segment: 5.92 %	☐ N/A, full yield curve used
b Applicable month (enter code)				21b 3
22 Weighted average retirement age				22 63
23 Mortality table(s) (see instructions)	☐ Prescribed - combined	☒ Prescribed - separate	☐ Substitute	

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.....	☐ Yes ☒ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.....	☐ Yes ☒ No
26 Demographic and benefit information	
a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.	☒ Yes ☐ No
b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...	☒ Yes ☐ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29).....	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6c)	31a	99,035,512	
b Excess assets, if applicable, but not greater than line 31a	31b	99,035,512	
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment	0	0	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)....	34	0	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	0	0
36 Additional cash requirement (line 34 minus line 35)	36	0	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	0	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	0	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years	40	0	

Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)

41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. ☐ 2019 ☐ 2020 ☒ 2021
--

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 22 Description of Weighted Average Retirement Age as of January 1, 2022

See Schedule SB, Part V - Statement of Actuarial Assumptions/Methods for retirement rates. The average retirement age for Line 22 was calculated by determining the average age at retirement for those current active participants expected to reach retirement, based on all current decrements assumed.

Retirement Age	Assumed Rate	Participants at Beginning	Participants Retiring: (2)x(3)	Weighted Value (1)x(4)
(1)	(2)	(3)	(4)	(5)
55	0.04	1,000	40.00	2,200.00
56	0.04	960	38.40	2,150.40
57	0.04	922	36.86	2,101.25
58	0.04	885	35.39	2,052.59
59	0.06	849	50.96	3,006.69
60	0.08	798	59.88	3,592.74
61	0.09	739	66.47	4,054.40
62	0.16	672	107.53	6,666.65
63	0.16	565	90.32	5,690.31
64	0.16	474	75.87	4,855.73
65	0.25	398	99.58	6,472.73
66	0.25	299	74.69	4,929.23
67	0.25	224	56.01	3,752.94
68	0.20	168	33.61	2,285.37
69	0.20	134	26.89	1,855.18
70	1.00	108	<u>107.55</u>	7,528.28
			1,000.00	63,194.46
63,194.46 / 1,000 = 63				

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Plan Sponsor: American Electric Power Service Corporation
Valuation Date: January 1, 2022

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 26b Schedule of Projection of Expected Benefit Payments

Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2022	140,798,582	58,877,777	216,866,349	416,542,708
2023	137,877,076	15,522,213	210,793,555	364,192,844
2024	147,487,761	16,856,962	204,548,694	368,893,417
2025	150,628,185	16,012,328	198,068,417	364,708,930
2026	157,576,488	17,482,906	191,468,117	366,527,511
2027	159,254,554	17,724,793	184,736,945	361,716,292
2028	161,091,004	19,263,072	177,886,454	358,240,530
2029	160,883,440	15,326,406	170,894,332	347,104,178
2030	161,557,051	12,631,528	163,756,748	337,945,327
2031	160,829,204	13,269,186	156,504,164	330,602,554
2032	162,211,689	12,861,503	149,131,601	324,204,792
2033	162,265,647	10,391,231	141,648,090	314,304,968
2034	163,869,959	9,903,803	134,062,428	307,836,190
2035	162,888,964	9,372,833	126,385,071	298,646,867
2036	167,006,386	10,497,085	118,630,510	296,133,981
2037	170,408,682	8,603,419	110,818,989	289,831,090
2038	172,621,901	9,116,107	102,978,138	284,716,146
2039	177,165,408	8,834,301	95,144,547	281,144,256
2040	181,165,380	7,597,582	87,363,507	276,126,469
2041	185,498,083	7,657,580	79,687,650	272,843,313
2042	190,064,816	8,592,209	72,174,529	270,831,553
2043	192,571,953	8,358,441	64,872,933	265,803,327
2044	195,499,406	8,675,868	57,851,894	262,027,168
2045	200,608,270	6,728,716	51,174,606	258,511,592
2046	200,917,617	8,167,699	44,878,922	253,964,238
2047	201,945,019	8,268,328	39,006,235	249,219,583
2048	200,268,805	7,594,521	33,589,243	241,452,569
2049	199,611,901	5,238,038	28,650,640	233,500,579
2050	197,532,615	5,010,725	24,202,504	226,745,844
2051	194,039,330	5,944,015	20,245,894	220,229,239
2052	188,590,995	5,033,918	16,771,297	210,396,210
2053	182,366,380	3,427,036	13,759,574	199,552,989
2054	172,967,442	3,357,433	11,183,315	187,508,191
2055	167,759,796	2,692,130	9,008,731	179,460,657
2056	156,991,319	2,306,127	7,197,618	166,495,065
2057	148,613,083	2,372,347	5,709,203	156,694,633
2058	136,707,664	1,693,752	4,501,898	142,903,314
2059	125,213,550	1,286,481	3,534,916	130,034,948
2060	113,920,141	856,729	2,769,652	117,546,523
2061	102,230,831	519,431	2,170,671	104,920,933
2062	90,842,371	267,579	1,706,393	92,816,343
2063	80,483,746	216,960	1,349,459	82,050,165
2064	69,864,727	113,368	1,076,762	71,054,858
2065	60,109,017	80,892	869,227	61,059,135

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2066	52,014,948	56,697	711,450	52,783,095
2067	45,033,084	39,052	591,224	45,663,360
2068	39,368,594	26,458	499,045	39,894,097
2069	34,214,743	17,660	427,629	34,660,033
2070	29,825,428	11,643	371,481	30,208,552
2071	27,217,664	7,611	326,504	27,551,779

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SCHEDULE SB ATTACHMENTS

Schedule SB, Part V Summary of Plan Provisions

Summary of Plan Provisions covered by the former East Retirement Plan

Plan Provisions

Effective date	May 1, 1955. Plan was amended and restated for amendments through December 31, 2019.
Recent amendments	First amendment to the Plan, as amended and restated for amendments through December 31, 2019, executed on December 28, 2020.
Covered employees	Employees become Members of the Plan on the first day of the month following completion of one year of service.
Participation date	Date of becoming a covered employee.

Definitions

Grandfathered employee	If, on December 31, 2000, either: – Participating in AEP System Retirement Plan, or – In one-year waiting period for AEP System Retirement Plan participation.
Vesting service	A period of time from employment date to termination date and, in general, includes periods of severance that are not in the excess of 12 months.
Accredited service	Elapsed time from date of hire (from benefit service start date).
Cash balance pay	Pay received during the year, including base pay, overtime, shift differential/Sunday premium pay and incentive pay, subject to IRS limits.
Covered compensation amount	The average of the Social Security taxable wage based during the 35-year period including the year in which the participant retires, dies, becomes disabled or otherwise terminates employment. This monthly average is calculated to the next lower or equal whole dollar amount and is then rounded to nearest \$50.
Final average pay	Average of the highest 36-consecutive months of base pay out of the last 120 months of employment, subject to IRS limits.
Normal retirement date (NRD)	The first day of the calendar month whose first day is nearest the later of the member's 65 th birthday or the completion of five years of Vesting Service.

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Cash balance account Recordkeeping account to which annual Interest Credits and annual Company Credits are credited. The cash balance account is updated at the end of each plan year and is equal to:

Cash Balance Account as of the
end of the prior plan year
+
Interest Credits
+
Company Credits

Cash balance benefit Cash Balance Account converted to a monthly annuity

Opening balance For those participating in or eligible for the AEP System Retirement Plan on December 31, 2000, opening balance is calculated as follows:

- Present value of monthly normal retirement benefit determined as of December 31, 2000, and payable at age 65 (or current age if older)
 - Present value determined based on 5.78% interest and IRS regulated mortality (GAM83 Unisex) data for lump sums (postretirement only)

Plus

- Credit for early retirement subsidy for monthly payments beginning at age 62 (or current age if older)

Plus

- Transition credit based on age, service and pay received in 2000 (see "Company Credits" for credit percentages)
 - Age and service based on completed whole years as of December 31, 2000.

For employees hired on or after January 1, 2001, opening balance is \$0.

Interest credits Interest credits are applied to beginning of year account balance on December 31 each year.

Based on the average 30-year Treasury Bond rate for November of the previous year.

Minimum of 4%.

Company credits Applied to account balance on December 31 or termination date if earlier.

Amount is a percentage of eligible pay received during the year, based on age plus years of Vesting Service (age and service in completed whole years as of December 31).

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For individuals hired on or after January 1, 2021 any eligible pay paid prior to the date they become a participant shall not be taken into account.

<i>Age Plus Years of Service</i>	<i>Annual Company Credit</i>
Less than 30	3.0%
30 – 39	3.5%
40 – 49	4.5%
50 – 59	5.5%
60 – 69	7.0%
70+	8.5%

Monthly grandfathered benefit Sum of (1), (2) and (3):

- (1) 1.10% of Final Average Pay x Accredited Service up to 35 years
- (2) 0.50% of Final Average Pay Less Covered Compensation x Accredited Service up to 35 years
- (3) 1.33% of Final Average Pay x Accredited Service between 35 and 45 years

Accruals for the grandfathered benefit ceased on December 31, 2010.

Long-term disability and paid leaves

Participants do not receive company credits while on long-term disability. Vesting service continues.

Unpaid leave

No compensation for annual Company Credit. Vesting service continues.

Eligibility for Benefits

Normal retirement

All members at or after their Normal Retirement Date.

Early retirement

Any time after attainment of age 55 and completion of five years of vesting. Applicable only to grandfathered benefits.

Postponed retirement

Retirement after Normal Retirement Date.

Vested termination

All members who terminate employment after completion of three years of Vesting Service, or upon death.

Disability

All members who are unable to work at own occupation solely because of sickness or injury for the first 24 months of disability. After 24 months of disability, the participant is eligible if unable to work at any gainful occupation for which the participant may be able, or may reasonably become qualified by education, training or experience, to perform.

Surviving spouse

The surviving spouse of a Grandfathered Member who retired or is eligible to retire on Normal or Early Retirement and who was married to

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SCHEDULE SB ATTACHMENTS

that spouse for the year preceding commencement and whose grandfathered benefit exceeds his or her Cash Balance Benefit.

Preretirement death

Beneficiary of deceased member.

Benefits Paid Upon the Following Events

Normal retirement

For Grandfathered Employees, the better of the monthly grandfathered benefit or the Cash Balance Benefit determined as of Normal Retirement Date. For all other employees, the Cash Balance Benefit determined as of Normal Retirement Date.

Early retirement

For Grandfathered Employees, the better of:

- (1) The monthly grandfathered retirement benefit reduced by 3% per year for each year commencement precedes age 62, and
- (2) The Cash Balance Benefit determined as of the Early Retirement Date.

For all other employees, the Cash Balance Benefit determined as of the Early Retirement Date.

Deferred vested retirement

The accrued Normal Retirement Benefit (better of Cash Balance and Grandfathered Benefits, if eligible), payable at Normal Retirement Date or actuarially reduced and payable at any age.

Disability

The greater of (1) or (2):

- (1) Accrued Grandfathered Retirement Benefit reduced as in the Early Retirement Benefit. If retirement occurs prior to age 55, the benefit is further reduced actuarially from age 55. The Disability Retirement Benefit will reflect Accredited Service that accrued (at most recent rate of base earnings) to a member while receiving benefits under the Company's LTD plan.
- (2) The Cash Balance Benefit with continued Company Credits while disabled.

Benefit (1) applies for Grandfathered Employees only.

Preretirement death

Better of (1) or (2):

- (1) The grandfathered monthly benefit as if the employee commenced a 60% qualified joint and survivor benefit at his earliest retirement date
- (2) Annuity equivalent of Cash Balance account or the cash balance account.

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Surviving spouse benefits

Benefit (1) applies for a Grandfathered Employee whose beneficiary is his or her spouse.

A benefit payable for life equal to 30% of the single life annuity payable to the grandfathered member. The spouse's benefit is actuarially reduced for each year by which the spouse is more than ten years younger than the member. Payable to Grandfathered Employees only.

Other Plan Provisions

Forms of payment

- Grandfathered employees The following are available for Grandfathered Employees for both the Grandfathered Benefit and the Cash Balance Benefit:

- Full lump sum payment.
- Combination of partial lump sum (25%, 50% or 75% of full lump sum) with remainder paid as a monthly benefit (see below).
- Monthly payment:
 - Single life annuity.
 - Optional joint annuities (spouse or other beneficiary).
 - Available in 40%, 50%, 60%, 75%, 100%.
 - Can elect pop-up and/or level income options.
 - Automatic company-paid 30% surviving spouse annuity included in Grandfathered Benefit annuity if terminate on or after age 55 and married at least one year. Cash Balance Benefit is actuarially reduced for this feature.

A one-time option to elect a lump sum of the accrued benefit for terminated vested participants whose benefit was determined in no way by reference to either the AEP or CSW cash balance formulas was offered during the period from May 1, 2012 through June 30, 2012. Participants eligible for the window were also permitted to elect any of the other optional forms of payment generally applicable to such a participant under the normal terms of the plan document. Any participant who elected to commence benefits under this window, regardless of lump sum or annuity election, had a benefit commencement date of August 1, 2012.

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- Employees hired on or after January 1, 2001
 - The following are available for those hired on or after January 1, 2001:
 - Full lump sum payment.
 - Combination of partial lump sum (25%, 50% or 75% of full lump sum) with remainder paid as a monthly benefit (see below).
 - Monthly payment:
 - Single life annuity.
 - Joint annuities (spouse or other beneficiary).
 - Available in 50%, 75%, 100%.

Form of payment conversion for non-417(e) covered conversions

- Cash balance 7.50% interest and the applicable 417(e) Mortality Table.
- Grandfathered benefit 7.50% interest and the 1974 George B. Buck Mortality Table.

Pension Increases

None.

Plan participants' contributions

Prior to January 1, 1978, employee contributions were required as a condition of Membership. In May and June of 1981, Members were permitted an election to withdraw those contributions. Those who did not elect to withdraw have retirement benefits based on a formula that differs from the formulas previously described in this section. However, the number of nonelecting Members is so small that special plan provisions for that group have not been included in this summary.

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**Maximum on benefits
and
pay**

All benefits and pay for any calendar year may not exceed the maximum limitations for that year as defined in the Internal Revenue Code. The plan provides for increasing the dollar limits automatically as such changes become effective. Increases in the dollar limits are assumed for determining pension cost but not for determining contributions.

Benefits not valued

A small portion of the population made employee contributions to the plan. Because the amount of these contributions is not material to the plan, they are not part of the valuation.

Participants who were employees of Columbus Southern Power (CSP) at the time AEP acquired that company have a frozen benefit under the CSP benefit formula at December 31, 1986. Benefits for these participants are the greater of an all-service AEP benefit and a two-part benefit consisting of the frozen CSP benefit plus an AEP benefit accrued from January 1, 1987. Because this applies to a small portion of the population and the CSP frozen benefit is not often the greater benefit for these participants, this benefit is not valued.

Plan status

Ongoing.

Future Plan Changes

WTW is not aware of any future plan changes that are required to be reflected.

Changes in Benefits Valued Since Prior Year

None.

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Summary of Plan Provisions covered by the former West Retirement Plan

Plan Provisions

Effective date	January 1940. Amended and restated effective January 1, 2017.
Recent amendments	Plan was merged with and into the American Electric Power System Retirement Plan, which was most recently amended and restated for amendments through December 31, 2019.
Covered employees	All full-time employees of a Participating Company employed by CSW before January 1, 2001, and not covered by a union (that has not bargained for coverage) or another pension plan provided by AEP. Part-time employees of the Company had to work more than 1,000 hours in the first anniversary year or subsequent calendar years.
Participation date	Date of becoming a covered employee

Definitions

Grandfathered employee	Employees who were at least age 50 with ten years of vesting service of July 1, 1997.
Vesting service	All service from date of hire in completed years.
Credited service	The aggregate of: For the period prior to January 1, 1976: (1) The number of full years in the last continuous period that employee was a participant after June 30, 1970, plus (2) Credited service under any prior plan if service extended to July 1, 1970. For the period beginning on or after January 1, 1976, the number of full years of service.
Cash balance pay	Pay received during the year, including base pay, overtime, shift differential/Sunday premium pay and incentive pay, subject to IRS limits
Final average pay	Highest average annual earnings (base pay only) during any 36 consecutive months in the 120 months before retirement. Any changes in earnings within the last three months before retirement will not be taken into account.
Normal retirement date (NRD)	The first day of the calendar month on or following the member's 65 th birthday.

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Cash balance account Recordkeeping account to which annual interest credits and annual company credits are credited. The cash balance account is updated at the end of each plan year and is equal to:

Cash Balance Account as of the
end of the prior plan year
+
Interest Credits
+
Company Credits

Cash balance benefit Cash Balance Account converted to a monthly annuity

Interest credits Interest credits are applied to beginning of year account balance on December 31 each year.

Based on the average 30-year Treasury Bond rate for November of the previous year.

Minimum of 4%.

Company credits Applied to account balance on December 31 or termination date if earlier.

Amount is a percentage of eligible pay received during the year, based on age plus years of Vesting Service (age and service in completed whole years as of December 31).

<i>Age Plus Years of Service</i>	<i>Annual Company Credit</i>
Less than 30	3.0%
30 – 39	3.5%
40 – 49	4.5%
50 – 59	5.5%
60 – 69	7.0%
70+	8.5%

Monthly grandfathered benefit Greater of (1) or (2) below with automatic cost of living adjustments upon retirement:

(1) Basic benefit — An annual amount equal to:

The aggregate of a participant's (a) earned benefit (if any) under any prior plan or acquired Company pension plan under which no election was made to receive a paid-up annuity; and (b) participant contributions without interest for the period commencing on or after July 1, 1970. For the period after September 1, 1980, participants will be deemed to have made contributions at the rate of 2% annually of the participant's annual rate of earnings as of January 1.

(2) Minimum benefit:

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1-2/3% of final average annual earnings less 50% of participant's annual primary Social Security benefit times years of credited service up to 30 years.

Minimum benefits

The benefit payable will never be less than the frozen accrued benefit as of July 1, 1997, under the prior plan.

Primary Social Security benefit

The annual amount payable under the Social Security Act as amended in effect at the employee's date of retirement. The date as of which the amount is to be determined is:

- (1) In the case of an employee (including deferred vested employees) retiring on or after normal retirement date, normal retirement date.
- (2) In the case of an employee retiring prior to normal retirement date, the later of employee's 62nd birthday or actual retirement date.

Early retirees and deferred vested employees are assumed to have no earnings after termination in determining the amount of this benefit.

Long-term disability and paid leaves

Participants do not receive company credits while on long-term disability. For the grandfathered formula, the final average pay will be determined as of the date on which the participant became disabled. Vesting service continues.

Unpaid leave

No compensation for annual compensation credit. Vesting service continues.

Eligibility for Benefits

Normal retirement

All members at or after their Normal Retirement Date

Early retirement

Any time after attainment of age 55 and completion of five years of vesting

Postponed retirement

Retirement after NRD.

Vested

The participant's cash balance account is 100% vested when any one of the following applies:

- (1) Three years of vesting service
- (2) Attainment of age 55 while an employee
- (3) Death prior to termination
- (4) Upon disability.

Disability

All participants who become permanently and totally disabled. Permanent and total disability is determined by reference to the LTD plan covering that participant.

Surviving spouse

The surviving spouse of a participant who retired or is eligible to retire on normal or early retirement.

Preretirement death

Beneficiary of participant who dies after becoming vested.

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Benefits Paid Upon the Following Events

Normal retirement Grandfathered employees must elect either the cash balance or the grandfathered formula. For purposes of this valuation, the employee is assumed to elect the formula with the higher present value. Employees with a prior plan frozen benefit get the better of the cash balance benefit and the prior plan frozen benefit. For all other employees, the Cash Balance Benefit is determined as of Normal Retirement Date.

Early retirement Greater of (1) if applicable or (2):

(1) The grandfathered accrued benefit and the prior plan frozen are payable subject to reduction according to the following schedule if payments commence prior to the normal retirement date.

<i>Age at Retirement</i>	<i>Percent of Benefit Payable</i>
64	100%
63	100%
62	100%
61	95%
60	90%
59	84%
58	78%
57	72%
56	66%
55	60%

(2) The Cash Balance Benefit determined as of the Early Retirement Date.

Deferred vested retirement Greater of (1) if applicable or (2):

(1) Grandfathered accrued benefit payable at age 65, or if earlier reduced 5% per year from age 65, 6% per year from age 60 and 7.5% per year compounded from age 55.

(2) Vested cash balance account.

Disability retirement The greatest of grandfathered accrued benefit, if eligible, based on projected service and frozen pay deferred to age 65, prior plan frozen benefit if eligible and cash balance account with continued pay credits.

Preretirement death If the beneficiary is the spouse and the participant is a grandfathered/protected plan participant, then:

(1) For an active participant who dies on or after 55th birthday but before retirement, a monthly benefit equal to 50% of the benefit accrued to the date of death without reduction for early retirement is payable immediately as a life annuity to a qualifying spouse.

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- (2) For an active participant who dies after completing five or more years of vesting service but before age 55, a deferred monthly benefit equal to 50% of the benefit accrued to the date of death reduced as for early retirement is payable as a life annuity to a qualifying spouse. Benefit commencement is deferred to when the deceased participant would have attained age 55.
- (3) For a deferred vested participant who dies before benefits commence, a monthly benefit equal to 50% of the deferred vested benefit reduced for early commencement (as for deferred vesteds) is payable as a life annuity to a qualifying spouse. If death occurs before age 55, the benefit to the spouse is deferred to when the deceased participant would have attained age 55.

The spouse's benefit is actuarially reduced for each year by which the spouse is more than five years younger than the participant.

For all employees, the minimum benefit is the cash balance account immediate annuity, which is also payable if the beneficiary is not the participant's spouse.

Other Plan Provisions

Form of payment

The following are available for those participants who did not work an hour of service on or after January 1, 2003:

- Full lump sum payment.
- Monthly payment:
 - Single life annuity.
 - 50% joint annuity (spouse or other beneficiary).

A one-time option to elect a lump sum of the accrued benefit for terminated vested participants whose benefit was determined in no way by reference to either the AEP or CSW cash balance formulas was offered during the period from May 1, 2012 through June 30, 2012. Participants eligible for the window were also permitted to elect any of the other optional forms of payment generally applicable to such a participant under the normal terms of the plan document. Any participant who elected to commence benefits under this window, regardless of lump sum or annuity election, had a benefit commencement date of August 1, 2012.

The following are available for those participants who work an hour of service on or after January 1, 2003:

- Full lump sum payment.
- Combination of partial lump sum (25%, 50% or 75% of full lump sum) with remainder paid as a monthly benefit (see below).
- Monthly payment:

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- Single life annuity.
- Joint annuities (spouse or other beneficiary).
 - Available in 50%, 75%, 100%.

Form of payment conversion for non-417(e) covered conversions

- Cash balance 7.50% interest and the applicable 417(e) Mortality Table
- Grandfathered benefit Factors as specified in Tables I, II, III and IV of Exhibit A to the American Electric Power System Retirement Plan document. 7.50% interest and the 1951 Group Annuity male mortality table to the extent not covered by Tables I, II, III and IV.

Pension Increases None.

Member contributions None.

Maximum on benefits and pay All benefits and pay for any calendar year may not exceed the maximum limitations for that year as defined in the Internal Revenue Code. The plan provides for increasing the dollar limits automatically as such changes become effective. Increases in the dollar limits are assumed for determining pension cost but not for determining contributions.

Plan status Continuing accruals. All new entrants to plan are covered under former East plan provision.

Future Plan Changes

WTW is not aware of any future plan changes that are required to be reflected.

Changes in Benefits Valued Since Prior Year

None.

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American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year)
 EIN: 13-4922641 Plan Number: 001

December 31, 2022

(a)	(b)	(c)	(d)	(e)
	Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
	Short-Term Investments			
		AMERICAN ELECTRIC POWER PROP VAR RT 12/31/2049 DD 07/24/08	\$ 119,436,988	\$ 119,436,988
		U S TREASURY BILL 0.000% 03/23/2023 DD 03/24/22	3,264,872	3,264,872
		JPY (JAPANESE YEN)	347,924	366,960
		EUR (EURO)	96,716	96,952
		TWD (TAIWAN DOLLAR)	28,357	28,308
		NOK (NORWEGIAN KRONE)	12,801	12,789
		KRW (SOUTH KOREAN WON)	11,934	12,108
		CAD (CANADIAN DOLLARS)	11,646	11,665
		BRL (BRAZILIAN REAL)	11,451	11,260
		CHF (SWISS FRANC)	10,133	10,123
		GBP (GREAT BRITISH POUNDS)	9,395	9,373
		TRY (NEW TURKISH LIRA)	4,425	4,328
		SEK (SWEDISH KRONA)	3,005	3,025
		PLN (POLISH ZLOTY)	2,574	2,652
		ZAR (SOUTH AFRICAN RAND)	1,988	2,102
		SGD (SINGAPORE DOLLARS)	2,008	2,056
		THB (THAI BAHT)	1,855	1,864
		DKK (DANISH KRONE)	705	709
		MXN (MEXICAN PESO)	704	703
		AUD (AUSTRALIAN DOLLARS)	320	320
		HKD (HONG KONG DOLLARS)	37	35
		CNY (CHINESE YUAN RENMINBI)	-	-
	Total Short-Term Investments		123,259,838	123,279,192
	State and Local Government Obligations			
		CALIFORNIA ST 7.350% 11/01/2039 DD 11/10/09	3,493,535	3,015,055
		CALIFORNIA ST 7.600% 11/01/2040 DD 12/01/10	3,667,902	2,972,291
		ILLINOIS ST 5.100% 06/01/2033 DD 06/12/03	2,981,058	2,533,714
		NEW YORK CITY NY MUNI WTR FIN 5.440% 06/15/2043 DD 09/23/10	2,537,896	1,870,632
		UNIV OF CALIFORNIA CA RGTS MED 6.583% 05/15/2049 DD 12/17/09	2,186,498	1,841,859
		N TX TOLLWAY AUTH REVENUE 6.718% 01/01/2049 DD 08/12/09	2,054,912	1,613,071
		LOS ANGELES CA UNIF SCH DIST 5.750% 07/01/2034 DD 10/15/09	1,865,802	1,603,430
		BAY AREA CA TOLL AUTH TOLL BRI 7.043% 04/01/2050 DD 07/01/10	1,570,493	1,327,633
		CHICAGO IL TRANSIT AUTH SALES 6.899% 12/01/2040 DD 08/06/08	1,563,281	1,241,386
		ALAMEDA CNTY CA JT PWRS AUTH L 7.046% 12/01/2044 DD 11/04/10	1,232,416	1,046,506
		CALIFORNIA ST 7.500% 04/01/2034 DD 04/28/09	1,218,640	1,032,891
		NEW YORK CITY NY TRANSITIONAL 5.572% 11/01/2038 DD 11/03/10	1,123,460	1,025,910

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year)
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December 31, 2022

(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
State and Local Government Obligations (Continued)				
	UNIV OF TEXAS TX UNIV REVENUES 2.439% 08/15/2049 DD 05/29/20	\$ 1,570,000	\$	986,054
	MUNI ELEC AUTH OF GEORGIA 6.637% 04/01/2057 DD 03/11/10	1,208,916		952,069
	SALES TAX SECURITIZATION CORP 3.587% 01/01/2043 DD 12/14/17	1,172,095		911,176
	UNIV OF CALIFORNIA CA REVENUES 4.858% 05/15/2112 DD 03/01/12	1,426,947		872,474
	COLORADO ST BRIDGE ENTERPRISE 0.923% 12/31/2023 DD 09/15/21	913,185		871,334
	CALIFORNIA ST 7.550% 04/01/2039 DD 04/28/09	1,024,699		851,108
	PORT AUTH OF NEW YORK & NEW JE 4.926% 10/01/2051 DD 10/06/11	813,919		725,956
	NEW YORK ST URBAN DEV CORP REV 5.770% 03/15/2039 DD 12/01/09	845,398		713,730
	PORT AUTH OF NEW YORK & NEW JE 4.229% 10/15/2057 DD 05/09/17	801,891		665,717
	NEW YORK CITY NY MUNI WTR FIN 5.882% 06/15/2044 DD 11/18/10	985,654		662,148
	MET TRANSPRTN AUTH NY DEDICATE 7.336% 11/15/2039 DD 04/30/09	797,894		612,470
	UNIV OF VIRGINIA VA UNIV REVEN 2.256% 09/01/2050 DD 07/21/20	975,000		594,711
	NEW YORK ST DORM AUTH ST PERSO 3.110% 02/15/2039 DD 01/03/20	767,676		589,965
	CALIFORNIA ST 7.300% 10/01/2039 DD 10/15/09	711,615		558,840
	PORT AUTH OF NEW YORK & NEW JE 3.287% 08/01/2069 DD 08/16/19	843,365		538,040
	UNIV OF CALIFORNIA CA REVENUES 5.946% 05/15/2045 DD 09/30/10	515,281		532,270
	GOLDEN ST TOBACCO SECURITIZATI 3.000% 06/01/2046 DD 10/07/21	555,000		513,702
	NEW YORK ST THRUWAY AUTH 3.500% 01/01/2042 DD 10/30/19	615,411		480,746
	PORT AUTH OF NEW YORK & NEW JE 4.458% 10/01/2062 DD 10/10/12	705,289		468,580
	DALLAS TX AREA RAPID TRANSIT S 2.613% 12/01/2048 DD 12/01/21	656,384		434,511
	UNIV OF MICHIGAN MI 2.437% 04/01/2040 DD 06/16/20	450,000		323,703
	UNIV OF CALIFORNIA CA RGTS MED 6.548% 05/15/2048 DD 11/18/10	402,404		318,296
	RUTGERS NJ ST UNIV 3.270% 05/01/2043 DD 10/24/19	410,201		308,923
	KANSAS ST DEV FIN AUTH REVENUE 4.927% 04/15/2045 DD 08/20/15	379,887		269,191
	DALLAS-FORT WORTH TX INTERNATI 4.087% 11/01/2051 DD 04/21/22	290,000		241,480
	CALIFORNIA ST 4.600% 04/01/2038 DD 04/25/18	218,116		178,860

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year)
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December 31, 2022

(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
State and Local Government Obligations (Continued)				
	MASSACHUSETTS ST 2.514% 07/01/2041 DD 07/09/20	\$ 225,000	\$ 162,011	
	RIVERSIDE CNTY CA PENSN OBLG 3.818% 02/15/2038 DD 05/06/20	145,542	148,000	
	LOS ANGELES CA CMNTY CLG DIST 2.106% 08/01/2032 DD 11/10/20	140,011	143,939	
	BAY AREA CA TOLL AUTH TOLL BRI 3.552% 04/01/2054 DD 09/26/19	180,000	130,579	
	CONNECTICUT ST 5.850% 03/15/2032 DD 04/30/08	119,924	121,384	
Total State and Local Government Obligations		46,362,597	37,006,345	
Common/Collective Trusts				
*	BNYM-M DB SL ACWI FUND	282,211,847	370,312,704	
	VONTOBEL INDIA-CL 1 SC A RED	8,600,597	9,924,454	
Total Common/Collective Trusts		290,812,444	380,237,158	
Partnership/Joint Venture Interests				
	BRIGADE CREDIT OFFSHORE FUND II LTD A RU21	45,618,012	55,996,935	
	LION INDUSTRIAL TRUST PROPERTIES	10,000,000	52,593,739	
	PRISA	20,221,680	40,922,978	
	JPMCB STRATEGIC PROPERTY FUND	12,525,012	29,481,599	
	JAMESTOWN PREMIER PROPERTY FUND LP	3,436,555	26,194,332	
	IFM GLOBAL INFRA OFFSHORE LP	-	24,222,747	
	USAA EAGLE REAL ESTATE FEEDER I LP	4,831,384	21,117,055	
	GRIDIRON CAPITAL FUND III LP	316,112	18,885,757	
	BROOKFIELD PREMIER RE PRTNS	9,346,034	18,820,136	
	CVC CAPITAL PRTNRS VI (C) LP	10,311,425	17,965,999	
	DREAM INDUSTRIAL FUND	10,000,000	14,920,433	
	BROOKFIELD INFRA FUND III LP	10,606,897	13,141,983	
	TZP CAPITAL PARTNERS II LP	8,845,464	12,985,395	
	KPS SPECIAL SITUATIONS FUND IV LP	8,608,024	12,981,227	
	AMERICAN SECURITIES PARTNERS VI	48,826	12,345,737	
	PATRIA-BRAZILIAN PE FUND V LP	6,176,233	12,337,662	
	PATRIA - BRAZILIAN PRIVATE EQUITY FUND IV LP	9,390,691	11,776,372	
	PEG POOLED VENT CAP INST INVEST III LLC	16,625,726	11,390,984	
	MERIDIAM INFRA NORTH AMERICA FD III (DOMESTIC)	9,096,688	11,058,725	
	AXIUM INFRA NA IV LP	11,251,669	10,813,957	
	AMERICAN SECURITIES PTNRS VII	6,856,087	10,759,829	
	BROOKFIELD SUPER-CORE INFRA	10,000,000	10,280,586	
	KKR DIV CORE INFRA FD (A) SCSP	10,000,000	10,223,931	
	CA STUDENT LIVING INC GRWTH	7,542,914	9,734,880	
	H.I.G. CAPITAL PARTNERS V LP	7,923,367	9,408,812	
	BLACKSTONE ENERGY PARTNERS II LP	7,727,660	9,253,875	
	ICON INFRA PARTNERS FUND V LP	7,479,079	8,965,019	
	PLATINUM EQUITY CAP PTNRS IV L PV LP	4,755,371	8,774,479	
	AMERICAN SECURITIES PTNR VIII	6,570,709	8,708,419	

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year)
 EIN: 13-4922641 Plan Number: 001

December 31, 2022

(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party		Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Partnership/Joint Venture Interests (Continued)				
		CVC CAPITAL PARTNERS VII LP	4,825,784	8,001,758
		APOLLO INVESTMENT FUND VIII LP	4,648,898	7,856,573
		BLACKSTONE CAPITAL PARTNERS VII LP	5,623,263	7,524,938
		JADIAN REAL ESTATE FUND I LP	5,129,279	7,419,943
		HIGH ROAD CAPITAL PARTNERS FD II - WFC	7,418,187	7,395,460
		GID MAINSTAY FUND	5,846,401	7,115,910
		PLATINUM CAP EQ PTNRS V LP	4,676,699	6,860,716
		ASANA PARTNERS FUND I LP	3,327,311	6,709,383
		ALTERNA CORE CAPITAL ASSETS II LP	8,436,975	6,603,920
		GLOBAL ENERGY & POWER INFRA II	9,080,260	5,786,157
		HIG EUROPE CAPITAL PARTNERS II LP	6,753,251	5,577,357
		ALMANAC REALTY SEC VIII LP	5,158,827	5,549,570
		BUCKINGHAM MULTIFAMILY FUND II	4,089,349	5,156,314
		PROVIDENCE DEBT FUND III LP	6,165,887	4,985,151
		OHA STRATEGIC CREDIT FUND II	2,307,558	4,406,308
		APOLLO INVESTMENT FUND IX LP	2,876,098	4,310,644
		UNICO CORE PLUS PARTNERS LP	4,547,426	4,144,462
		TPG GROWTH II LP	1,305,419	4,095,198
		ALMANAC REALTY SECURITIES VII	4,222,181	4,058,385
		BLACKSTONE ENERGY PARTNERS L.P.	6,204,891	3,637,918
		TPG GROWTH III LP	3,372,730	3,492,369
		ENCAP ENERGY TRANS FD I-C LP	3,527,698	3,490,316
		HEITMAN ASIA-PACIFIC PRO INVST FEED	3,432,298	3,446,229
		BASALT INFRA PARTNERS LP	4,798,092	3,408,951
		ALTERRA IOS VENTURE II LP	3,215,649	3,136,843
		CVC CAPITAL PTNS VIII A LP	2,806,953	3,042,394
		PLATINUM EQ CAP PARTNERS III	1,074,573	3,040,646
		OAKTREE REAL ESTATE OPP VIII LP	2,473,548	2,785,738
		INSIGHT PARTNERS CAYMAN XII LP	3,300,000	2,757,551
		BLACKSTONE CAP PARTNERS VIII	2,379,755	2,729,344
		PEG US POOLED CORP FIN INST INVEST III LLC	10,645,983	2,537,848
		GS PEP 2005-MANAGERS FUND	15,726,411	2,503,743
		SIXTH ST OPP PTNS III (A) LP	1,640,235	2,453,788
		BROOKFIELD STRAT RE PTNS B LP	18,040	2,364,000
		FORTRESS JPN OPP FD IV DOL B LP	1,624,961	2,173,436
		GRIDIRON CAPITAL FUND II LP	7,684,131	2,137,063
		RIDGEMONT EQUITY PARTNERS FUND I LP	-	1,873,675
		FSN CAPITAL VI LP	1,796,648	1,778,751
		INSIGHT PARTNERS FUND X FOLLOW-ON FUND L.P.	2,032,020	1,679,232
		JADIAN REAL ESTATE IMMUNO TEK	1,649,985	1,649,985
		SECONDARY INVESTMENT SPV-3 LP	-	1,639,724
		HIG CAPITAL PARTNERS VI	1,486,585	1,608,557
		IRON POINT REAL ESTATE II-TE	2,241,192	1,554,916
		BOWMARK CAPITAL PARTNERS V	2,325,466	1,544,423
		CARROLL MULTIFAMILY VENT VII	1,425,816	1,440,395
		ENCAP ENERGY TRAN COINV I-C LP	1,663,726	1,289,594
		EXETER EUR VAL VENT III FED SCSP	330,352	1,269,168
		WARBURG PINCUS PRIVATE EQUITY X LP	-	1,106,313
		WATERLAND PRIVATE EQUITY FUND V	734,607	923,123
		STRIPES VI (A) LP	918,849	838,069

American Electric Power System Retirement Plan

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(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Partnership/Joint Venture Interests (Continued)				
	BRAZIL REAL ESTATE OPPORTUNITIES FUND II - BAHIA	4,083,728	792,217	
	SUMMIT PTNS GROWTH EQ XI-B LP	849,575	788,913	
	ASCRIBE OPP FUND III LP	9,998,147	707,027	
	WOLFF CREDIT PARTNERS III LP	634,729	693,839	
	GREENFIELD ACQUI RTNRS VII LP	-	682,184	
	WOLFF CREDIT PARTNERS II LP	83,458	634,085	
	ASANA PARTNERS FUND III LP	766,667	598,705	
	APOLLO EUROPEAN PRINCIPAL FUND II	1,086,129	598,513	
	SECONDARY INVESTMENTS SPV-4 LP	81,310	491,889	
	GS PEP 2005 - DIRECT FUND	1,951,181	383,059	
	OHA EUROPEAN STRATEGIC CREDIT FUND (OFFSHORE) LP	2,141,421	368,110	
	TPG OPPORTUNITIES FUND II	3,630,323	334,928	
	PLATINUM EQUITY CP VI LP	290,187	290,187	
	HVEST PART VI DIRECT FUND	5,274,109	69,414	
	HVEST PART V PARTNERS FUND	12,502,714	64,210	
	HARBOURVEST INTL PVT EQ PARTNERS III PARTNERSHIP	9,723,619	35,053	
	HVEST PART VI PARTNERSHIP FD	4,584,673	24,490	
	EXETER INDUSTRIAL VALUE FUND II LP	327,144	1,850	
	GREENFIELD MULTI-STATE PARTNERS LP	494,349	1,718	
	ABERDEEN SAFL EUR RE CLUB II OFFSHR FDR LTD	5,061,019	1	
	WATERLAND PE FUND VI C.V.	4,626,367	1	
	UNICO PARTNERS I LP	321,294	1	
	JPMCB SPECIAL SITUATION PROPERTY FUND	1,873,498	1	
Total Partnership/Joint Venture Interests			533,467,507	706,516,226

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Stock				
	MICROSOFT CORP	\$ 12,293,890	\$ 16,300,565	
	VISA INC	10,304,944	13,938,618	
	AMAZON.COM INC	13,543,670	12,954,480	
	ALPHABET INC	9,350,560	11,757,700	
	UNITEDHEALTH GROUP INC	6,399,271	9,680,557	
	ASML HOLDING NV	7,002,521	9,651,610	
	NIKE INC	7,631,952	9,584,874	
	DEXCOM INC	8,485,404	9,184,104	
	COCA-COLA CO/THE	7,583,037	8,769,465	
	NESTLE SA	7,477,810	8,213,372	
	CME GROUP INC	8,136,464	7,486,147	
	KEYENCE CORP	7,116,657	7,209,594	
	RELX PLC	7,456,777	7,044,649	
	BOSTON SCIENTIFIC CORP	6,064,748	6,995,746	
	MASTERCARD INC	5,269,251	6,718,839	
	FLUTTER ENTERTAINMENT PLC	6,432,189	6,558,668	
	ADYEN NV	5,560,618	6,387,084	
	MERCADOLIBRE INC	7,601,888	6,368,802	
	ENTAIN PLC	5,807,687	6,342,744	
	SIKA AG	6,817,590	6,038,521	
	NETFLIX INC	5,838,027	5,997,564	
	HEINEKEN NV	5,800,899	5,626,739	
	ESSILORLUXOTTICA SA	5,084,191	5,581,146	
	LONDON STOCK EXCHANGE GROUP PL	6,496,334	5,548,114	
	HDFC BANK LTD ADR	4,778,202	5,432,164	
	LAM RESEARCH CORP	6,212,165	5,392,869	
	OKTA INC	5,578,191	4,974,492	
	TELEPERFORMANCE	5,003,881	4,931,789	
	HONG KONG EXCHANGES & CLEARING HK/00388	4,524,572	4,775,828	
	JD.COM INC HK/09618	4,769,168	4,692,646	
	EUROFINS SCIENTIFIC SE	5,495,179	4,610,239	
	RENTOKIL INITIAL PLC	5,020,775	4,541,160	
	WAL-MART DE MEXICO SAB DE CV	4,438,209	4,459,057	
	VULCAN MATERIALS CO	4,525,550	4,416,099	
	ADOBE INC	4,576,098	4,344,602	
	GILEAD SCIENCES INC	3,585,285	4,293,359	
	CONSTELLATION SOFTWARE INC	4,400,958	4,237,437	
	APTIV PLC	4,204,174	4,204,354	
	ABBOTT LABORATORIES	4,186,029	4,197,491	
	EDWARDS LIFESCIENCES CORP	3,859,471	4,133,245	
	BLOCK INC	7,700,238	4,119,351	
	MICHELIN (CGDE) EURO.50 (POST SUBDIVISION)	4,325,082	4,107,237	
	SNOWFLAKE INC	4,887,339	4,047,828	
	HOYA CORP	4,105,176	3,898,498	
	TAIWAN SEMICONDUCTOR MANUFACTU ADR	3,928,639	3,806,216	
	CROCS INC	1,626,580	3,689,873	
	SERVICENOW INC	4,101,069	3,625,665	
	ZALANDO SE	4,273,182	3,624,621	
	SHOPIFY INC	3,862,268	3,605,536	
	REPLIGEN CORP	3,891,457	3,546,537	
	ALCON INC	3,825,871	3,542,437	

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Identity of Issuer, Borrower, Lessor, or Similar Party		Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Corporate Stock (Continued)				
		SEA LTD ADR	\$ 4,244,232	\$ 3,505,157
		MARUBENI CORP	2,865,747	3,394,096
		ATLASSIAN CORP	3,465,969	3,380,038
		LVMH MOET HENNESSY LOUIS VUITT	2,731,006	3,361,087
		ALIGN TECHNOLOGY INC	3,850,873	3,359,004
		CLOUDFLARE INC	5,763,520	3,327,320
		WILLIAMS COS INC/THE	2,536,459	3,270,260
		ELEVANCE HEALTH INC	2,212,845	3,262,489
		ROCHE HOLDING AG	2,980,302	3,245,361
		ABBVIE INC	2,444,564	3,243,028
		GENERAL DYNAMICS CORP	2,716,183	3,235,106
		ANTOFAGASTA PLC	2,636,113	3,193,550
		BOOKING HOLDINGS INC	3,094,538	3,172,051
		L'OREAL SA	3,009,837	3,132,748
		ASHTAD GROUP PLC	3,554,025	3,112,736
		CHUBB LTD	2,131,470	3,107,151
		JPMORGAN CHASE & CO	2,666,413	3,094,223
		PUBLICIS GROUPE SA	2,559,436	3,059,314
		ALLISON TRANSMISSION HOLDINGS	2,755,541	2,966,080
		WEICHAI POWER CO LTD HK/02338	3,462,044	2,956,708
		CVS HEALTH CORP	2,507,381	2,954,123
		UNITED THERAPEUTICS CORP	1,811,527	2,947,754
		IRHYTHM TECHNOLOGIES INC	4,491,300	2,929,529
		AIR LIQUIDE SA	2,860,502	2,876,100
		NOV INC	2,866,250	2,853,031
		SAMSUNG ELECTRONICS CO LTD	2,767,907	2,776,894
		ENTEGRIS INC	4,137,385	2,738,579
		BECTON DICKINSON & CO	2,603,419	2,717,704
		AVNET INC	2,590,700	2,708,688
		MUENCHENER RUECKVERSICHERUNGS-	2,219,325	2,687,045
		PHILIP MORRIS INTERNATIONAL IN	2,291,666	2,672,956
		KONINKLIJKE AHOLD DELHAIZE NV	2,552,343	2,661,750
		HORIZON THERAPEUTICS PLC	1,845,190	2,628,780
		NOVARTIS AG	2,412,466	2,623,345
		INTEL CORP	3,624,835	2,615,460
		KOBE BUSSAN CO LTD	2,947,538	2,612,944
		DOORDASH INC	5,139,158	2,609,380
		TECHTRONIC INDUSTRIES CO LTD HK/00669	3,822,977	2,595,931
		SK HYNIX INC	2,931,493	2,582,561
		SKF AB	2,835,665	2,568,899
		SALLY BEAUTY HOLDINGS INC	2,994,980	2,540,308
		SONY GROUP CORP	2,425,963	2,535,046
		MARATHON PETROLEUM CORP	1,590,793	2,526,711
		WEBSTER FINANCIAL CORP	2,329,861	2,489,421
		HANNOVER RUECK SE	2,042,622	2,488,544
		LG ELECTRONICS INC	3,370,714	2,476,313
		DNB BANK ASA	2,550,984	2,459,533
		KDDI CORP	2,293,656	2,450,554
		SPAREBANK 1 SR-BANK ASA	2,114,822	2,446,065
		SMURFIT KAPPA GROUP PLC	2,324,151	2,438,596
		JAZZ PHARMACEUTICALS PLC	2,575,222	2,421,512
		CP ALL PCL	2,153,438	2,418,850
		MAGNA INTL INC	2,418,922	2,417,506

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Identity of Issuer, Borrower, Lessor, or Similar Party		Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Corporate Stock (Continued)				
		OPEN TEXT CORPORATION	\$ 2,894,215	\$ 2,410,250
		SCIENCE APPLICATIONS INTERNATI	1,857,555	2,407,181
		NEXT PLC	2,410,988	2,399,925
		BERRY GLOBAL GROUP INC	2,172,875	2,399,071
		CARTER'S INC	2,907,766	2,398,861
		NORTHERN TRUST CORP	2,359,878	2,389,230
		UNITED OVERSEAS BANK LTD	2,055,463	2,379,639
		NIHON M&A CENTER HOLDINGS INC	2,649,919	2,375,381
		MKS INSTRUMENTS INC	2,304,378	2,363,967
		INGREDION INC	2,107,587	2,360,113
		NEXTERA ENERGY INC	1,695,666	2,354,510
		METHANEX CORP	2,515,362	2,347,038
		VINCI SA	2,279,468	2,335,865
		HYUNDAI MOBIS CO LTD	2,520,363	2,333,854
		DEUTSCHE TELEKOM AG	2,040,775	2,333,182
		LUNDIN MINING CORP	2,732,633	2,321,366
		BELLWAY PLC	3,039,598	2,315,320
		YARA INTERNATIONAL ASA	2,164,130	2,301,793
		LINDE PLC	1,590,200	2,299,769
		BAIDU INC ADR	2,728,941	2,294,463
		AMCOR PLC	2,009,921	2,289,102
		TORONTO DOMINION BANK NEW	2,041,596	2,287,721
		HONDA MOTOR CO LTD	2,697,867	2,284,139
		TAYLOR WIMPEY PLC	3,189,643	2,282,684
		ARROW ELECTRONICS INC	1,474,678	2,279,626
		DAITO TRUST CONSTRUCTION CO LT	2,523,555	2,278,131
		SHINHAN FINANCIAL GROUP CO LTD	2,686,214	2,275,152
		SLM CORP	2,635,756	2,272,540
		TYSON FOODS INC	2,209,518	2,255,380
		CARLYLE GROUP INC/THE	2,764,003	2,249,936
		SHERWIN-WILLIAMS CO/THE	1,872,384	2,232,326
		CAPITAL ONE FINANCIAL CORP	2,192,268	2,200,270
		EQUITY COMMONWEALTH	2,312,622	2,196,037
		POPULAR INC	1,683,425	2,188,892
		OTIS WORLDWIDE CORP	1,948,419	2,172,868
		KIA CORP	1,670,485	2,140,848
		GSK PLC	2,618,202	2,099,409
		INTERNATIONAL BANCSHARES CORP	1,876,182	2,045,564
		M&T BANK CORP	1,733,608	2,045,346
		MONDI PLC	2,343,916	2,036,502
		VERIZON COMMUNICATIONS INC	2,060,749	1,917,795
		PAYPAL HOLDINGS INC	2,825,632	1,864,896
		SYNOPSYS INC	1,459,426	1,815,802
		META PLATFORMS INC	2,252,584	1,700,765
		ENDESA SA	1,837,187	1,648,000
		INTUITIVE SURGICAL INC	1,278,741	1,541,949
		GREENCORE GROUP PLC	1,688,870	1,540,497
		DAICEL CORP	1,650,650	1,514,161
		JOHNSON & JOHNSON	1,252,179	1,511,417
		AIRBNB INC	1,844,053	1,491,633
		NOMAD FOODS LTD	1,755,884	1,446,436
		INCHCAPE PLC	1,225,103	1,443,831
		LOOMIS AB	1,677,401	1,412,062

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Identity of Issuer, Borrower, Lessor, or Similar Party		Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Corporate Stock (Continued)				
		DEUTSCHE BOERSE AG	\$ 1,221,815	\$ 1,364,597
		KT&G CORP	1,332,145	1,348,801
		PFIZER INC	1,200,864	1,338,133
		LG UPLUS CORP	1,620,721	1,253,119
		IPSOS	568,735	1,215,280
		ALIBABA GROUP HOLDING LTD HK/09988	1,788,812	1,206,524
		BANK OF AMERICA CORP	1,069,556	1,163,837
		STATE STREET CORP	1,072,011	1,161,766
		INTERPUBLIC GROUP OF COS INC/T	1,040,647	1,145,864
		BANK OF IRELAND GROUP PLC	637,092	1,136,793
		WELLS FARGO & CO	1,119,010	1,134,814
		SUMITOMO MITSUI FINANCIAL GROU	1,006,906	1,113,025
		BNP PARIBAS SA	1,099,291	1,110,706
		CITIGROUP INC	1,345,183	1,106,461
		CREDICORP LTD	1,011,283	1,092,606
		NOKIA OYJ	1,131,538	1,066,677
		BAIDU INC HK/09888	1,288,314	950,622
		FLATEXDEGIRO AG	1,793,965	935,072
		BB SEGURIDADE PARTICIPACOES SA	723,812	923,755
		AMDOCS LTD	725,934	921,999
		DIRECT LINE INSURANCE GROUP PL	1,085,948	912,244
		BRISTOL-MYERS SQUIBB CO	819,071	908,009
		CITIZENS FINANCIAL GROUP INC	826,660	899,171
		PARKER-HANNIFIN CORP	612,280	835,461
		ANGLO AMERICAN PLC	632,431	827,029
		LAS VEGAS SANDS CORP	861,486	825,025
		CHARLES SCHWAB CORP/THE	526,614	819,611
		BAKER HUGHES CO	699,777	814,733
		DAI-ICHI LIFE HOLDINGS INC	658,304	806,448
		SOMERO ENTERPRISES INC	783,678	779,971
		RIO TINTO LTD	665,008	769,146
		CIE FINANCIERE RICHEMONT SA	463,926	759,678
		WALT DISNEY CO/THE	889,084	757,594
		SWIRE PACIFIC LTD HK/00087	668,210	755,825
		SPAREBANKEN VEST	551,969	739,613
		UBS GROUP AG	618,338	737,907
		WYNN MACAU LTD HK/01128	833,311	737,865
		SIEMENS AG	612,599	729,702
		DIME COMMUNITY BANCSHARES INC	703,274	729,034
		DR HORTON INC	471,579	718,468
		SUBARU CORP	982,789	714,531
		BROOKLINE BANCORP INC	821,002	697,793
		PROSUS NV	703,701	677,183
		SANOFI	633,305	664,940
		CEMEX SAB DE CV ADR	746,704	661,604
		CAMBRIDGE BANCORP	620,469	656,174
		INTESA SANPAOLO SPA	689,977	652,274
		ORACLE CORP	497,486	647,790
		PREMIER FINANCIAL CORP	722,011	644,583
		ING GROEP NV	611,284	640,155
		ENI SPA	528,740	639,665
		NASPERS LTD	684,208	637,074
		DUNI AB	847,695	636,529

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Corporate Stock (Continued)				
		BANK OF KYOTO LTD/THE	\$ 608,008	\$ 633,899
		PINTEREST INC	643,479	632,203
		MS&AD INSURANCE GROUP HOLDINGS	599,577	630,279
		NETAPP INC	571,488	628,888
		BRIDGESTONE CORP	672,130	625,727
		LLOYDS BANKING GROUP PLC	772,954	625,592
		INTERNATIONAL BUSINESS MACHINE	591,966	619,775
		DEVON ENERGY CORP	339,584	614,669
		HARLEY-DAVIDSON INC	533,533	608,067
		NATWEST GROUP PLC ORD GBP1.0769	584,025	604,848
		STARBUCKS CORP	523,287	604,128
		TENCENT HOLDINGS LTD HK/00700	663,834	603,643
		OMNICOM GROUP INC	525,441	601,497
		HUNTINGTON BANCSHARES INC/OH	611,868	599,588
		APPLIED MATERIALS INC	458,342	598,400
		GENERAL ELECTRIC CO	608,018	596,166
		BANCO SANTANDER SA	675,323	591,374
		BANGKOK BANK PCL	661,152	584,482
		KRAFT HEINZ CO/THE	495,156	584,148
		EUROBANK ERGASIAS SERVICES AND	423,680	569,656
		CIMB GROUP HOLDINGS BHD	533,521	568,072
		BORGWARNER INC	518,437	567,968
		ZIMMER BIOMET HOLDINGS INC	526,242	567,375
		TOTALENERGIES SE	448,752	564,099
		RAYTHEON TECHNOLOGIES CORP	475,136	561,822
		VERALLIA SA	534,215	554,762
		TRIP.COM GROUP LTD HK/09961	498,424	554,039
		GALP ENERGIA SGPS SA	513,180	553,192
		FINECOBANK BANCA FINECO SPA	431,258	549,104
		SPOTIFY TECHNOLOGY SA	810,581	547,597
		VIATRIS INC	686,473	544,980
		SOCIETE GENERALE SA	553,197	543,480
		HUNTING PLC	328,568	539,770
		WHITBREAD PLC	676,171	535,471
		TREASURY WINE ESTATES LTD	482,405	532,558
		BERKSHIRE HATHAWAY INC	463,943	530,999
		COCA-COLA ICECEK AS	315,986	530,657
		EBAY INC	479,902	525,135
		NOMURA HOLDINGS INC	581,289	523,198
		UNILEVER PLC	545,280	517,038
		JOHNSON CONTROLS INTERNATIONAL	368,631	512,960
		AFFILIATED MANAGERS GROUP INC	350,985	510,937
		PRADA SPA HK/01913	400,883	508,032
		BAYER AG	651,191	504,763
		AMERICAN EXPRESS CO	393,890	499,986
		SOUTHWESTERN ENERGY CO	529,653	498,935
		BFF BANK SPA	408,842	493,234
		GENTING SINGAPORE LTD	537,111	492,490
		PENN ENTERTAINMENT INC	555,775	492,248
		ZIONS BANCORP NA	470,522	487,716
		HALEON PLC	487,352	485,833
		MFE-MEDIAFOREUROPE NV	903,237	483,596
		SNAM SPA	470,717	480,318

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Corporate Stock (Continued)				
	TENARIS SA	\$ 351,968	\$ 479,953	
	AIRBUS SE	373,396	475,840	
	ANIMA HOLDING SPA	510,553	471,366	
	UBER TECHNOLOGIES INC	556,681	465,864	
	CRITEO SA	396,402	465,093	
	YAGEO CORP	494,562	464,082	
	INFINEON TECHNOLOGIES AG	401,882	463,898	
	COATS GROUP PLC	523,394	462,405	
	TENCENT MUSIC ENTERTAINMENT GR ADR	393,005	458,240	
	VAN LANSCHOT KEMPEN NV	464,464	454,086	
	SPIRIT AEROSYSTEMS HOLDINGS IN	526,666	453,946	
	DANIELI & C OFFICINE MECCANICH	484,865	453,111	
	FISERV INC	450,562	448,144	
	DUFREY AG	508,572	447,827	
	FLSMIDTH & CO A/S	440,637	444,097	
	CAPRI HOLDINGS LTD	310,256	443,886	
	OWENS CORNING	372,756	441,513	
	TELEFONICA BRASIL SA	485,771	440,566	
	SAP SE	496,477	439,367	
	PRUDENTIAL PLC	495,005	438,658	
	CK HUTCHISON HOLDINGS LTD HK/00001	534,467	437,956	
	MEDIOBANCA BANCA DI CREDITO FI	426,427	436,089	
	MOHAWK INDUSTRIES INC	493,220	435,253	
	SWATCH GROUP AG/THE	391,530	434,354	
	BASF SE	494,961	432,071	
	CIELO SA	491,100	431,773	
	SOCIETE BIC SA	413,396	427,522	
	EASTMAN CHEMICAL CO	399,373	424,547	
	VEOLIA ENVIRONNEMENT SA	394,628	421,837	
	SPLUNK INC	451,008	421,583	
	EXOR NV	387,524	420,739	
	THYSSENKRUPP AG	565,900	419,048	
	GRESHAM HOUSE PLC	361,561	416,459	
	BANKINTER SA	483,708	415,245	
	STANDARD CHARTERED PLC	420,912	413,881	
	CJ CORP	457,073	413,217	
	DELIVERY HERO SE	364,816	409,573	
	SCHIBSTED ASA	472,178	407,531	
	UNIVAR SOLUTIONS INC	342,965	407,167	
	VALID SOLUCOES E SERVICOS DE S	573,001	406,623	
	APPLUS SERVICES SA	602,634	405,225	
	TITAN CEMENT INTERNATIONAL SA	557,283	403,587	
	STERICYCLE INC	508,027	403,560	
	HEIDELBERGCEMENT AG	425,779	403,500	
	FU SHOU YUAN INTERNATIONAL GRO HK/01448	398,603	403,385	
	SPROUTS FARMERS MARKET INC	348,193	403,363	
	HARBOUR ENERGY PLC	516,897	402,428	
	RECTICEL SA	375,954	402,188	
	RESIDEO TECHNOLOGIES INC	279,150	401,314	
	KENDRION NV	470,826	397,960	
	CLEAR SALE SA	365,962	392,577	
	TAKE-TWO INTERACTIVE SOFTWARE	462,180	392,049	

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year)
 EIN: 13-4922641 Plan Number: 001

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(a)	(b)	(c)	(d)	(e)
	Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Corporate Stock (Continued)				
	ADECCO GROUP AG		\$ 506,227	\$ 387,894
	PING AN INSURANCE GROUP CO OF HK/02318		484,861	387,374
	NIKON CORP		412,040	387,199
	JAPAN POST HOLDINGS CO LTD		376,299	385,729
	ELIS SA		400,148	383,971
	MULTICHOICE GROUP		387,900	383,795
	HAITONG SECURITIES CO LTD HK/06837		514,083	380,801
	GENERAL MOTORS CO		367,830	380,435
	SMITH & NEPHEW PLC		497,532	380,259
	SHAFTESBURY CAPITAL PLC		457,154	379,888
	IQIYI INC ADR		634,249	379,385
	PPG INDUSTRIES INC		361,240	378,980
	CHINA MERCHANTS BANK CO LTD HK/03968		307,247	375,135
	AUMANN AG		498,583	374,140
	LG CHEM LTD		300,255	372,479
	SECOM CO LTD		452,125	371,590
	SOUTHWEST AIRLINES CO		357,327	370,437
	HENKEL AG & CO KGAA		463,055	368,256
	WILLIS TOWERS WATSON PLC		328,511	368,093
	WESTROCK CO		376,574	367,352
	BATH & BODY WORKS INC		390,323	366,955
	MICRON TECHNOLOGY INC		454,659	365,704
	CLP HOLDINGS LTD HK/00002		419,599	364,833
	SHANGRI-LA ASIA LTD HK/00069		497,457	363,628
	KITZ CORP		373,345	361,764
	TOYOTA INDUSTRIES CORP		362,270	360,285
	FRESENIUS SE & CO KGAA		549,385	359,072
	CHOW SANG SANG HOLDINGS INTERN HK/00116		325,152	359,038
	FEDEX CORP		332,497	357,831
	TIM SA/BRAZIL		358,553	357,811
	HELLO GROUP INC ADR		558,686	357,772
	HSBC HOLDINGS PLC HK/00005		304,662	357,151
	SIEMENS ENERGY AG		478,696	356,794
	BANCO BILBAO VIZCAYA ARGENTARI		309,273	355,007
	HEIJMANS NV		380,537	354,648
	DELTA AIR LINES INC		412,999	353,672
	CHEESECAKE FACTORY INC/THE		339,389	352,837
	VALUE PARTNERS GROUP LTD HK/00806		556,507	348,581
	CHECK POINT SOFTWARE TECHNOLOG		328,957	347,192
	JUMBO SA		333,005	346,312
	BILIBILI INC HK/09626		236,101	345,433
	CHINA LESSO GROUP HOLDINGS LTD HK/02128		396,644	345,048
	ARTISAN PARTNERS ASSET MANAGEM		313,623	343,659
	KNIGHT-SWIFT TRANSPORTATION HO		290,674	342,290
	CHINA EVERBRIGHT ENVIRONMENT G HK/00257		501,503	342,288
	EURAZEO SE		367,599	341,226
	SABRE CORP		427,782	340,147
	ABB LTD		268,863	339,923
	SIME DARBY BHD		355,298	339,357

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Identity of Issuer, Borrower, Lessor, or Similar Party		Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Corporate Stock (Continued)				
		IBERDROLA SA	\$ 324,649	\$ 337,680
		CAIRN HOMES PLC	471,934	336,037
		FNAC DARTY SA	392,972	335,657
		ROLLS-ROYCE HOLDINGS PLC	375,298	331,117
		DIGITAL VALUE SPA	170,593	329,732
		SAMSUNG LIFE INSURANCE CO LTD	363,634	325,943
		WING TAI HOLDINGS LTD	410,141	325,597
		GRUPO TRAXION SAB DE CV	256,215	325,519
		CECONOMY AG	362,448	323,485
		TOSEI CORP	309,463	321,599
		GRUPPO MUTUIONLINE SPA	232,114	321,322
		ADMIRAL GROUP PLC	308,120	320,502
		TSUBAKIMOTO CHAIN CO	377,333	320,450
		ALLFUNDS GROUP PLC	507,655	318,796
		VICTORIA'S SECRET & CO	419,279	318,514
		MCKESSON CORP	175,565	317,727
		TOPGOLF CALLAWAY BRANDS CORP	346,478	317,225
		DENA CO LTD	386,209	315,135
		REPSOL SA	278,674	313,582
		TELEVISION FRANCAISE 1	342,465	311,976
		ABSA GROUP LTD	293,540	311,061
		BEIJING CAPITAL INTERNATIONAL HK/00694	358,724	309,422
		WEYERHAEUSER CO	344,411	309,411
		KERING SA	323,948	308,039
		CHEGG INC	301,080	306,955
		DOCUSIGN INC	344,824	306,528
		GENOMMA LAB INTERNACIONAL SAB	300,214	306,234
		CANADA GOOSE HOLDINGS INC SUB VTG	426,158	304,379
		MEGA MANUNGGAL PROPERTY TBK PT	259,940	303,921
		Z HOLDINGS CORP	371,315	303,763
		LOGITECH INTERNATIONAL SA	292,347	303,185
		ADVANCED MICRO DEVICES INC	296,755	302,217
		GAM HOLDING AG	569,579	298,922
		WALMART INC	298,415	295,065
		KINGSOFT CLOUD HOLDINGS LTD ADR	488,694	294,787
		DROPBOX INC	335,204	294,767
		OMV AG	255,114	293,840
		BOEING CO/THE	279,030	293,545
		MATTEL INC	232,664	292,897
		AMS-OSRAM AG	432,843	291,967
		TREMOR INTERNATIONAL LTD	3,716,412	290,918
		FUKUDA DENSHI CO LTD	271,046	290,690
		NEXI SPA	312,527	290,076
		HUTCHISON PORT HOLDINGS TRUST	298,120	287,041
		INDUSTRIA DE DISENO TEXTIL SA	334,440	286,455
		FANUC CORP	312,599	286,374
		RWS HOLDINGS PLC	439,296	285,796
		3M CO	362,357	285,526
		CONTINENTAL AG	464,402	285,520
		TRIPADVISOR INC	353,139	285,235
		COCA-COLA BOTTLERS JAPAN HOLDI	465,582	284,688
		DRAFTKINGS INC	384,428	284,101

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Identity of Issuer, Borrower, Lessor, or Similar Party		Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Corporate Stock (Continued)				
		TAIHEIYO CEMENT CORP	\$ 420,867	\$ 280,367
		MARRIOTT INTERNATIONAL INC/MD	257,190	280,360
		CGG SA	559,122	279,075
		PROSIEBENSAT.1 MEDIA SE	400,372	278,691
		LG H&H CO LTD	288,849	278,065
		SIME DARBY PROPERTY BHD	571,322	277,300
		CIE DE SAINT-GOBAIN	275,088	275,999
		AMERICANAS SA	674,460	275,826
		IMAX CORP	315,299	275,520
		HOME DEPOT INC/THE	262,821	273,851
		LANDIS+GYR GROUP AG	261,433	272,228
		DOWA HOLDINGS CO LTD	271,564	272,001
		VICAT SA	455,044	269,516
		MOSAIC CO/THE	194,508	268,046
		PPC LTD	319,653	268,022
		AUTOHOME INC HK/02518	405,909	265,677
		BLOOMIN' BRANDS INC	289,088	265,584
		SANSEI TECHNOLOGIES INC	290,875	264,201
		VOLVO AB	254,653	264,029
		CAPITA PLC	660,660	263,731
		NVIDIA CORP	298,621	262,906
		ASE TECHNOLOGY HOLDING CO LTD	279,008	262,555
		JARDINE CYCLE & CARRIAGE LTD	216,658	261,861
		VIMEO INC	554,305	261,712
		GAN LTD	990,874	261,536
		SUBSEA 7 SA	215,903	260,918
		GRAB HOLDINGS LTD	242,753	258,518
		2U INC	390,460	258,456
		SCOR SE	323,532	258,434
		TRAVELSKY TECHNOLOGY LTD HK/00696	248,127	256,063
		TAIWAN SEMICONDUCTOR MANUFACTU	233,923	255,890
		VITAL KSK HOLDINGS INC	304,160	255,757
		DUOLINGO INC	263,543	253,650
		CISCO SYSTEMS INC	248,922	250,396
		KYOCERA CORP	295,745	249,974
		ECKOH PLC	258,152	249,896
		AXA SA	231,891	249,097
		NIPPON INDOSARI CORPINDO TBK P	198,303	248,566
		AGCO CORP	217,792	248,116
		WIRTUALNA POLSKA HOLDING SA	168,020	247,604
		WATERS CORP	228,366	247,000
		NOAH HOLDINGS LTD	279,701	246,962
		TSUMURA & CO	300,110	245,818
		TINEXTA SPA	154,126	244,744
		HYUNDAI GLOVIS CO LTD	223,021	244,377
		ALIBABA HEALTH INFORMATION TEC HK/00241	283,488	243,509
		OKAMOTO INDUSTRIES INC	349,829	242,329
		AXALTA COATING SYSTEMS LTD	278,068	241,889
		NEINOR HOMES SA	335,411	241,579
		HONGKONG LAND HOLDINGS LTD	239,983	240,299
		RAKUTEN GROUP INC	352,085	240,121
		MARVELL TECHNOLOGY INC	286,705	239,945

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(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party		Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Corporate Stock (Continued)				
		SEINO HOLDINGS CO LTD	\$ 369,189	\$ 237,376
		UNIVERSAL MUSIC GROUP NV	271,404	236,370
		SHOP APOTHEKE EUROPE NV	222,492	235,382
		KYNDRYL HOLDINGS INC	347,835	233,353
		METSO OUTOTEC OYJ	179,509	232,712
		CENTRICA PLC	184,471	232,440
		ZHEJIANG EXPRESSWAY CO LTD HK/00576	243,926	232,308
		TAPESTRY INC	192,069	231,564
		TELEFONICA DEUTSCHLAND HOLDING	308,403	231,136
		FIRST INTERSTATE BANCYSYSTEM IN	227,036	229,697
		TREND MICRO INC/JAPAN	247,578	229,601
		TADANO LTD	294,647	227,636
		WESTERN UNION CO/THE	332,306	226,200
		ALMAWAVE SPA	264,923	224,315
		B3 SA - BRASIL BOLSA BALCAO	225,499	224,150
		DORMAKABA HOLDING AG	291,870	223,545
		GDS HOLDINGS LTD HK/09698	283,414	223,022
		MEYER BURGER TECHNOLOGY AG	191,349	221,349
		HECTO INNOVATION CO LTD	318,013	221,188
		NITTO DENKO CORP	206,670	220,551
		KION GROUP AG	198,748	219,620
		SEQUOIA LOGISTICA E TRANSPORTE	306,815	218,610
		WARNER BROS DISCOVERY INC	330,047	216,846
		FOURLIS HOLDINGS SA	306,192	214,867
		HENRY SCHEIN INC	204,985	214,611
		CATCHER TECHNOLOGY CO LTD	253,539	214,443
		DAIMLER TRUCK HOLDING AG	236,942	212,935
		CJ ENM CO LTD	357,809	209,897
		RESTAURANT GROUP PLC/THE	543,732	209,740
		BRITISH LAND CO PLC/THE	195,763	208,361
		QUALCOMM INC	223,905	208,336
		SATS LTD	208,624	208,085
		SOUTH32 LTD	211,428	207,340
		GREENTOWN SERVICE GROUP CO LTD HK/02869	287,209	206,500
		GMO INTERNET GROUP INC	256,355	206,202
		STELLANTIS NV	212,140	205,256
		WHIRLPOOL CORP	221,255	204,834
		SLEEP COUNTRY CDA HOLDINGS INC	265,890	204,589
		ZILLOW GROUP INC	222,635	203,302
		ESTEE LAUDER COS INC/THE	190,319	201,962
		CUBESMART	206,070	201,250
		FARFETCH LTD	334,247	200,434
		QUALICORP CONSULTORIA E CORRET	448,655	199,761
		GLOBAL PAYMENTS INC	234,662	197,746
		SNAP INC	202,388	197,285
		TRISUL SA	300,417	194,844
		CEGEDIM SA	444,136	190,153
		FUGRO NV	198,236	188,598
		WEIR GROUP PLC/THE	201,115	188,297
		LINCOLN ELECTRIC HOLDINGS INC	170,001	187,837
		EAST WEST BANCORP INC	226,435	187,486
		BP PLC	182,983	187,367

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Stock (Continued)				
	LL FLOORING HOLDINGS INC	\$ 411,187	\$ 187,090	
	TULLOW OIL PLC	267,492	185,304	
	FRAPORT AG FRANKFURT AIRPORT S	260,847	184,933	
	TEAMVIEWER SE	161,563	181,757	
	VITESCO TECHNOLOGIES GROUP AG	171,082	180,122	
	SINGAPORE TELECOMMUNICATIONS L	174,287	178,409	
	HAYWARD HOLDINGS INC	229,897	177,378	
	COSCO CAPITAL INC	220,200	176,537	
	BALL CORP	175,656	176,024	
	AKER CARBON CAPTURE ASA	233,388	174,624	
	H&R BLOCK INC	129,688	174,043	
	DOMETIC GROUP AB	210,741	173,961	
	BARRICK GOLD CORP	160,400	172,446	
	GEELY AUTOMOBILE HOLDINGS LTD HK/00175	183,420	172,397	
	HI SUN TECHNOLOGY CHINA LTD HK/00818	207,074	168,616	
	VALMET OYJ	159,725	166,993	
	WAYFAIR INC	181,590	165,634	
	KONINKLIJKE PHILIPS NV	325,529	164,942	
	ROCKWOOL A/S	158,978	164,288	
	CONSORCIO ARA SAB DE CV	202,821	164,067	
	NXP SEMICONDUCTORS NV	169,524	162,771	
	ATOS SE	472,327	160,218	
	KKR & CO INC	167,356	159,731	
	BANCO DO BRASIL SA	152,218	159,443	
	LOJAS RENNER SA	200,003	157,506	
	MITSUBISHI ESTATE CO LTD	167,567	156,596	
	INVERSIONES LA CONSTRUCCION SA	392,468	156,271	
	TOPPAN INC	168,784	155,038	
	KAHOOT! ASA	167,512	153,801	
	BOSTON PROPERTIES INC	162,071	153,407	
	MEITUAN HK/03690	142,067	152,206	
	CHINA LONGYUAN POWER GROUP COR HK/00916	137,843	151,688	
	FORTIVE CORP	144,724	150,666	
	BE SEMICONDUCTOR INDUSTRIES NV	142,139	147,951	
	BOC HONG KONG HOLDINGS LTD HK/02388	148,365	141,109	
	DOMINO'S PIZZA INC	136,877	139,946	
	DATALOGIC SPA	219,419	138,702	
	US BANCORP	155,618	138,331	
	GOURMET MASTER CO LTD	131,816	136,212	
	REALREAL INC/THE	403,630	136,114	
	ROBLOX CORP	146,709	135,327	
	RE/MAX HOLDINGS INC	227,195	132,400	
	KBC GROUP NV	119,733	127,215	
	PROFARMA DISTRIBUIDORA DE PROD	235,321	126,321	
	BOLSA DE VALORES DE COLOMBIA	289,580	126,015	
	SECO SPA	119,203	124,799	
	ADIDAS AG	113,263	116,715	
	VODAFONE GROUP PLC ADR	144,055	114,761	
	CREDIT SUISSE GROUP AG	118,372	112,926	
	RECKITT BENCKISER GROUP PLC	120,550	112,128	
	VIAPLAY GROUP AB	114,295	110,073	

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Identity of Issuer, Borrower, Lessor, or Similar Party		Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Corporate Stock (Continued)				
		UPLAND SOFTWARE INC	\$ 153,002	\$ 109,581
		ITALGAS SPA	112,373	108,903
		HELLOFRESH SE	136,556	108,195
		KOMATSU LTD	103,749	98,675
		BEYOND MEAT INC	373,101	98,061
		KONE OYJ	79,588	96,344
		NUCOR CORP	86,840	94,903
		ACERINOX SA	105,629	93,516
		POLA ORBIS HOLDINGS INC	98,975	93,405
		BLACKROCK INC	75,700	92,831
		PARAMOUNT GLOBAL	191,921	92,215
		ZOOM VIDEO COMMUNICATIONS INC	103,196	92,059
		H. LUNDBECK A/S	128,857	87,468
		FIDELITY NATIONAL INFORMATION	83,732	85,559
		TRIP.COM GROUP LTD ADR	70,372	83,730
		BANCO SANTANDER CHILE ADR	99,143	82,732
		TREVI - FINANZIARIA INDUSTRIAL RTS	-	82,311
		JONES LANG LASALLE INC	77,204	82,076
		MARISA LOJAS SA	281,417	80,799
		NEOWIZ	73,562	79,861
		SP SETIA BHD GROUP	89,187	79,750
		GARMIN LTD	79,231	79,369
		TREVI - FINANZIARIA INDUSTRIAL	288,231	77,124
		AMADEUS IT GROUP SA	76,330	74,303
		STMICROELECTRONICS NV	70,404	71,625
		WISDOMTREE INC	70,709	71,101
		MELIA HOTELS INTERNATIONAL SA	100,435	70,777
		SCOTTS MIRACLE-GRO CO/THE	76,042	69,192
		SCHLUMBERGER LTD	64,097	67,948
		SOLOCAL GROUP	861,039	62,501
		CHARLES RIVER LABORATORIES INT	59,878	61,012
		INDUSTRIAS PENOLES SAB DE CV	69,844	60,557
		TARGET CORP	61,495	59,616
		ANHUI CONCH CEMENT CO LTD HK/00914	58,732	56,314
		LIVE NATION ENTERTAINMENT INC	56,587	55,792
		CHANJET INFORMATION TECHNOLOGY HK/01588	96,798	55,397
		RTL GROUP SA	65,852	55,183
		NINTENDO CO LTD	44,032	54,505
		DANONE SA	51,520	51,122
		NKT A/S	41,180	45,500
		BPOST SA	70,389	43,293
		ELEMENT FLEET MANAGEMENT CORP	33,237	40,101
		BLUE APRON HOLDINGS INC	466,488	37,490
		CLOSE BROTHERS GROUP PLC	41,490	36,121
		SANLAM LTD	33,946	31,036
		MABUCHI MOTOR CO LTD	24,798	25,476
		ITAU UNIBANCO HOLDING SA ADR	21,680	22,244
		MEYER BURGER TECHNOLOGY AG RTS	-	17,096
		NEOGEN CORP	21,322	13,410
		RICHEMONT(CIE FIN) WTS 22-NOV-2023 (TO SUB FOR ORD)	113,157	12,277
		ST JAMES'S PLACE PLC	4,225	4,240

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Corporate Stock (Continued)				
	CONSTELLATION SOFTWARE INC/CAN	\$ 1	\$ 1,558	
	FRESENIUS KABI PHARMACEUTICALS RTS			
	EXP 12/31/2010	750	750	
	VK CO LTD GDR	640,908	-	
Total Corporate Stock Total		753,111,602	746,662,146	
Corporate Obligations				
	AMERICAN ELECTRIC POWER PROP VAR RT			
	12/31/2049 DD 07/24/08	8,231,494	8,231,494	
	AT&T INC 3.550% 09/15/2055 DD 03/15/21	9,480,496	7,339,798	
	GOLDMAN SACHS GROUP INC/THE VAR RT			
	10/31/2038 DD 10/31/17	8,160,248	6,611,518	
	BANK OF AMERICA CORP VAR RT			
	07/23/2024 DD 07/23/18	6,699,162	6,579,908	
	AT&T INC 3.800% 12/01/2057 DD 06/01/21	8,901,808	6,022,337	
	ANHEUSER-BUSCH INBEV WORLDWIDE			
	5.450% 01/23/2039 DD 01/23/19	6,969,077	5,532,097	
	CHARTER COMMUNICATIONS OPERATI			
	5.375% 05/01/2047 DD 11/01/17	7,039,076	5,173,150	
	COMCAST CORP 2.937% 11/01/2056 DD			
	05/01/22	7,756,605	5,126,279	
	CELANESE US HOLDINGS LLC 5.900%			
	07/05/2024 DD 07/14/22	4,939,358	4,940,395	
	AT&T INC 3.500% 09/15/2053 DD 03/15/21	6,519,850	4,769,819	
	MORGAN STANLEY VAR RT 07/22/2038 DD			
	07/24/17	5,885,356	4,724,194	
	CVS HEALTH CORP 4.780% 03/25/2038 DD			
	03/09/18	5,321,778	4,708,027	
	VERIZON COMMUNICATIONS INC 4.812%			
	03/15/2039 DD 02/03/17	6,102,170	4,669,739	
	BANK OF AMERICA CORP VAR RT			
	06/19/2041 DD 06/19/20	6,029,490	4,256,768	
	SHELL INTERNATIONAL FINANCE BV 4.375%			
	05/11/2045 DD 05/11/15	4,968,475	4,134,919	
	WYETH LLC 5.950% 04/01/2037 DD			
	03/27/07	4,482,728	4,131,484	
	ANHEUSER-BUSCH COS LLC / ANHEU			
	4.700% 02/01/2036 DD 02/01/19	4,083,849	4,002,698	
	ANHEUSER-BUSCH COS LLC / ANHEU			
	4.900% 02/01/2046 DD 02/01/19	4,006,348	3,795,392	
	ABBVIE INC 4.500% 05/14/2035 DD			
	05/14/15	4,062,196	3,703,923	
	EXXON MOBIL CORP 3.452% 04/15/2051 DD			
	04/15/20	4,724,841	3,692,599	
	BRISTOL-MYERS SQUIBB CO 4.250%			
	10/26/2049 DD 04/26/20	4,784,509	3,654,912	
	AMGEN INC 3.150% 02/21/2040 DD			
	02/21/20	4,612,356	3,613,141	
	LOCKHEED MARTIN CORP 4.070%			
	12/15/2042 DD 12/14/12	4,276,455	3,533,540	
	CONSTELLATION ENERGY GENERATIO			
	6.250% 10/01/2039 DD 09/23/09	3,968,463	3,492,106	

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(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	CITIGROUP INC VAR RT 04/24/2025 DD 04/24/19	\$ 3,433,430	\$ 3,391,150	
	JPMORGAN CHASE & CO VAR RT 07/24/2038 DD 07/24/17	4,172,485	3,340,170	
	PACIFIC GAS AND ELECTRIC CO 4.950% 07/01/2050 DD 07/02/20	4,303,862	3,318,761	
	WARNERMEDIA HOLDINGS INC 144A 5.141% 03/15/2052 DD 03/15/22	4,369,168	3,287,340	
	BANK OF AMERICA CORP VAR RT 04/22/2042 DD 04/22/21	3,976,073	3,245,312	
	TRANSCANADA PIPELINES LTD 6.200% 10/15/2037 DD 10/05/07	3,886,981	3,184,267	
	ABBVIE INC 4.050% 11/21/2039 DD 05/21/20	3,813,462	3,179,304	
	DUKE ENERGY CAROLINAS LLC 6.000% 01/15/2038 DD 01/10/08	3,330,749	3,135,067	
	BANK OF AMERICA CORP VAR RT 04/24/2038 DD 04/24/17	3,831,089	3,123,737	
	APPLE INC 2.650% 05/11/2050 DD 05/11/20	3,962,812	3,098,958	
	ABBOTT LABORATORIES 4.750% 11/30/2036 DD 11/22/16	3,431,581	3,079,835	
	BOEING CO/THE 5.705% 05/01/2040 DD 05/04/20	3,230,563	3,051,520	
	VERIZON COMMUNICATIONS INC 4.329% 09/21/2028 DD 06/21/18	3,049,570	2,966,902	
	WELLS FARGO & CO VAR RT 08/15/2026 DD 08/15/22	2,976,386	2,941,620	
	ORACLE CORP 4.125% 05/15/2045 DD 05/05/15	3,859,378	2,937,570	
	FLORIDA POWER & LIGHT CO 5.960% 04/01/2039 DD 03/17/09	3,007,451	2,931,937	
	TOTALENERGIES CAPITAL INTERNAT 3.127% 05/29/2050 DD 05/29/20	3,944,753	2,920,407	
	ENTERPRISE PRODUCTS OPERATING 4.800% 02/01/2049 DD 10/11/18	3,755,617	2,908,688	
	CONSOLIDATED EDISON CO OF NEW 4.450% 03/15/2044 DD 03/06/14	3,302,480	2,890,950	
	GEORGIA POWER CO 4.300% 03/15/2042 DD 03/06/12	3,231,409	2,884,791	
	CITIGROUP INC VAR RT 03/26/2041 DD 03/26/20	3,374,966	2,831,209	
	EXXON MOBIL CORP 4.227% 03/19/2040 DD 03/19/20	3,214,705	2,813,560	
	GOLDMAN SACHS GROUP INC/THE 6.250% 02/01/2041 DD 01/28/11	2,866,508	2,805,126	
	JPMORGAN CHASE & CO VAR RT 04/22/2027 DD 04/22/21	2,812,680	2,796,173	
	MICROSOFT CORP 2.525% 06/01/2050 DD 06/01/20	4,228,508	2,786,708	
	HSBC HOLDINGS PLC VAR RT 06/19/2029 DD 06/19/18	3,000,000	2,767,080	

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Corporate Obligations (Continued)				
	CHARTER COMMUNICATIONS OPERATI			
	4.908% 07/23/2025 DD 07/23/16	\$ 2,871,493	\$ 2,766,138	
	ANHEUSER-BUSCH INBEV WORLDWIDE			
	5.550% 01/23/2049 DD 01/23/19	2,959,078	2,747,109	
	HSBC HOLDINGS PLC 6.500% 09/15/2037			
	DD 09/12/07	2,713,893	2,744,293	
	BP CAPITAL MARKETS AMERICA INC 2.772%			
	11/10/2050 DD 08/10/20	3,871,799	2,734,931	
	VODAFONE GROUP PLC 5.250% 05/30/2048			
	DD 05/30/18	3,180,909	2,722,924	
	GOLDMAN SACHS GROUP INC/THE 6.750%			
	10/01/2037 DD 10/03/07	2,646,504	2,695,821	
	CITIGROUP INC VAR RT 11/17/2033 DD			
	11/17/22	2,590,000	2,686,374	
	T-MOBILE USA INC 3.400% 10/15/2052 DD			
	04/15/22	3,726,857	2,678,900	
	KINDER MORGAN INC 5.550% 06/01/2045			
	DD 11/26/14	2,858,799	2,660,050	
	WELLS FARGO BANK NA 6.600% 01/15/2038			
	DD 12/07/07	2,697,231	2,656,160	
	GILEAD SCIENCES INC 4.150% 03/01/2047			
	DD 09/20/16	3,184,550	2,641,744	
	NORTHROP GRUMMAN CORP 4.750%			
	06/01/2043 DD 05/31/13	3,054,904	2,608,706	
	ELEVANCE HEALTH INC 4.650% 01/15/2043			
	DD 09/10/12	2,979,719	2,603,018	
	EMERA US FINANCE LP 4.750% 06/15/2046			
	DD 12/15/16	3,483,875	2,575,212	
	EQUINOR ASA 3.625% 04/06/2040 DD			
	04/06/20	3,081,139	2,572,965	
	DISCOVERY COMMUNICATIONS LLC 4.900%			
	03/11/2026 DD 03/11/16	2,689,621	2,565,597	
	COCA-COLA CO/THE 2.500% 06/01/2040			
	DD 05/01/20	3,308,219	2,545,106	
	REYNOLDS AMERICAN INC 5.850%			
	08/15/2045 DD 06/12/15	3,413,423	2,544,161	
	APPLE INC 3.750% 11/13/2047 DD			
	11/13/17	3,309,012	2,488,178	
	ABBVIE INC 4.250% 11/21/2049 DD			
	05/21/20	2,870,862	2,464,318	
	DUPONT DE NEMOURS INC 5.319%			
	11/15/2038 DD 11/28/18	2,669,330	2,439,451	
	GE HEALTHCARE TECHNOLOGIE 144A			
	5.650% 11/15/2027 DD 11/22/22	2,389,198	2,427,620	
	BERKSHIRE HATHAWAY FINANCE COR			
	3.850% 03/15/2052 DD 03/15/22	2,964,498	2,405,496	
	CITIGROUP INC VAR RT 11/03/2042 DD			
	11/03/21	3,157,283	2,399,463	
	ROGERS COMMUNICATIONS INC 144A			
	4.550% 03/15/2052 DD 03/11/22	2,889,920	2,389,402	
	MPLX LP 4.950% 03/14/2052 DD 03/14/22	2,792,626	2,385,337	
	ORACLE CORP 3.600% 04/01/2040 DD			
	04/01/20	3,350,779	2,383,763	

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Corporate Obligations (Continued)				
	UNITEDHEALTH GROUP INC 3.050% 05/15/2041 DD 05/19/21	\$ 3,084,692	\$ 2,366,437	
	UNITEDHEALTH GROUP INC 4.625% 07/15/2035 DD 07/23/15	2,427,202	2,350,012	
	JPMORGAN CHASE & CO VAR RT 05/13/2031 DD 05/13/20	2,548,996	2,334,439	
	COMCAST CORP 3.400% 07/15/2046 DD 07/19/16	3,199,690	2,310,381	
	ANHEUSER-BUSCH INBEV WORLDWIDE 4.439% 10/06/2048 DD 04/06/17	2,709,005	2,301,952	
	MORGAN STANLEY VAR RT 04/20/2028 DD 04/20/22	2,275,946	2,285,976	
	ROYALTY PHARMA PLC 1.200% 09/02/2025 DD 03/02/21	2,310,971	2,284,061	
	AMAZON.COM INC 3.875% 08/22/2037 DD 02/22/18	2,307,374	2,256,887	
	AMAZON.COM INC 3.950% 04/13/2052 DD 04/13/22	2,686,682	2,255,580	
	GILEAD SCIENCES INC 4.500% 02/01/2045 DD 11/17/14	2,775,998	2,242,314	
	WELLS FARGO BANK NA 5.850% 02/01/2037 DD 01/29/07	2,362,344	2,197,537	
	COMCAST CORP 2.887% 11/01/2051 DD 05/01/22	2,974,325	2,196,400	
	ORACLE CORP 3.850% 07/15/2036 DD 07/07/16	2,740,275	2,189,093	
	NEW YORK LIFE INSURANCE C 144A 6.750% 11/15/2039 DD 10/08/09	2,494,385	2,166,310	
	BOEING CO/THE 5.805% 05/01/2050 DD 05/04/20	2,630,518	2,164,645	
	UNION PACIFIC CORP 3.799% 04/06/2071 DD 04/06/21	3,093,891	2,163,119	
	LOWE'S COS INC 4.050% 05/03/2047 DD 05/03/17	2,719,915	2,123,882	
	GOLDMAN SACHS GROUP INC/THE VAR RT 02/12/2026 DD 02/12/21	2,125,160	2,117,349	
	CITIGROUP INC VAR RT 03/31/2031 DD 03/31/20	2,262,501	2,108,701	
	VERIZON COMMUNICATIONS INC 3.700% 03/22/2061 DD 03/22/21	2,933,683	2,107,162	
	EQUINOR ASA 3.950% 05/15/2043 DD 05/15/13	2,684,573	2,107,041	
	BANK OF AMERICA CORP VAR RT 04/27/2028 DD 04/27/22	2,115,018	2,106,940	
	ORACLE CORP 3.600% 04/01/2050 DD 04/01/20	3,170,108	2,062,293	
	MIDAMERICAN ENERGY CO 4.250% 07/15/2049 DD 01/09/19	2,889,219	2,021,224	
	BERKSHIRE HATHAWAY ENERGY CO 6.125% 04/01/2036 DD 10/01/06	2,097,711	2,001,650	
	CSX CORP 4.750% 05/30/2042 DD 11/01/11	2,184,530	1,995,715	
	HSBC HOLDINGS PLC VAR RT 05/24/2032 DD 05/24/21	2,565,000	1,985,336	

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Corporate Obligations (Continued)				
	WELLS FARGO & CO 4.900% 11/17/2045 DD 11/17/15	\$ 2,553,923	\$ 1,982,186	
	AERCAP IRELAND CAPITAL DAC / A 4.500% 09/15/2023 DD 07/02/20	1,989,466	1,971,899	
	APPLE INC 2.650% 02/08/2051 DD 02/08/21	2,790,180	1,965,736	
	ENERGY TRANSFER LP 6.250% 04/15/2049 DD 01/15/19	2,330,438	1,949,084	
	JPMORGAN CHASE & CO VAR RT 01/23/2049 DD 01/23/18	2,846,446	1,937,143	
	STANFORD HEALTH CARE 3.310% 08/15/2030 DD 04/01/20	2,161,000	1,935,910	
	WELLS FARGO & CO 4.650% 11/04/2044 DD 11/04/14	2,678,600	1,922,940	
	VERIZON COMMUNICATIONS INC 2.987% 10/30/2056 DD 04/30/21	2,599,071	1,921,124	
	DUKE ENERGY CAROLINAS LLC 3.950% 11/15/2028 DD 11/08/18	1,996,137	1,917,913	
	WALT DISNEY CO/THE 6.200% 12/15/2034 DD 06/15/19	2,445,101	1,915,038	
	ANHEUSER-BUSCH INBEV WORLDWIDE 4.600% 04/15/2048 DD 04/04/18	2,503,807	1,909,506	
	MIDAMERICAN ENERGY CO 3.650% 04/15/2029 DD 01/09/19	2,009,257	1,908,403	
	ALEXANDRIA REAL ESTATE EQUITIE 3.950% 01/15/2028 DD 03/03/17	1,929,371	1,904,229	
	UNITEDHEALTH GROUP INC 5.250% 02/15/2028 DD 10/28/22	1,844,225	1,889,040	
	APPLE INC 3.450% 02/09/2045 DD 02/09/15	2,382,601	1,887,725	
	MEXICO GOVERNMENT INTERNATIONAL 3.771% 05/24/2061 DD 11/24/20	2,988,000	1,884,024	
	ASTRAZENECA PLC 6.450% 09/15/2037 DD 09/12/07	1,947,148	1,882,418	
	ABBVIE INC 4.550% 03/15/2035 DD 09/15/20	2,248,269	1,878,560	
	URUGUAY GOVERNMENT INTERNATION 5.100% 06/18/2050 DD 06/18/14	2,072,836	1,875,881	
	ALABAMA POWER CO 4.300% 07/15/2048 DD 06/28/18	2,416,536	1,851,496	
	CHARTER COMMUNICATIONS OPERATI 6.484% 10/23/2045 DD 10/23/16	2,564,871	1,842,957	
	PHILIP MORRIS INTERNATIONAL IN 3.125% 03/02/2028 DD 11/02/17	1,838,382	1,836,261	
	NORFOLK SOUTHERN CORP 4.150% 02/28/2048 DD 02/28/18	2,311,853	1,830,430	
	SOUTHERN CO/THE 4.400% 07/01/2046 DD 05/24/16	2,484,113	1,828,715	
	JPMORGAN CHASE & CO 5.600% 07/15/2041 DD 07/21/11	1,938,775	1,809,126	
	UNITEDHEALTH GROUP INC 6.875% 02/15/2038 DD 02/07/08	1,696,204	1,808,982	

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Corporate Obligations (Continued)				
	T-MOBILE USA INC 4.375% 04/15/2040 DD 04/15/21	\$ 2,050,562	\$ 1,808,017	
	BAYER US FINANCE II LLC 144A 3.875% 12/15/2023 DD 06/25/18	1,834,088	1,798,483	
	NORFOLK SOUTHERN CORP 3.050% 05/15/2050 DD 05/11/20	2,470,005	1,785,142	
	CVS HEALTH CORP 4.125% 04/01/2040 DD 03/31/20	2,149,712	1,773,126	
	MEXICO GOVERNMENT INTERNATIONAL 4.400% 02/12/2052	2,405,485	1,770,817	
	SUNCOR ENERGY INC 6.500% 06/15/2038 DD 06/28/07	1,910,709	1,767,136	
	MCDONALD'S CORP 4.450% 03/01/2047 DD 03/09/17	2,223,180	1,762,329	
	ELEVANCE HEALTH INC 4.550% 03/01/2048 DD 03/02/18	1,993,180	1,757,360	
	CITIGROUP INC VAR RT 01/28/2027 DD 01/28/21	1,738,478	1,743,740	
	STARBUCKS CORP 3.500% 11/15/2050 DD 05/07/20	2,263,201	1,728,576	
	UNITEDHEALTH GROUP INC 3.500% 08/15/2039 DD 07/25/19	2,187,996	1,716,281	
	BANK OF AMERICA CORP VAR RT 09/25/2025 DD 09/25/20	1,721,709	1,712,502	
	EQUINOR ASA 1.750% 01/22/2026 DD 05/22/20	1,729,101	1,697,177	
	VERIZON COMMUNICATIONS INC 4.400% 11/01/2034 DD 10/29/14	1,783,253	1,696,533	
	MICROSOFT CORP 2.921% 03/17/2052 DD 03/17/21	2,235,195	1,682,224	
	ASCENSION HEALTH 2.532% 11/15/2029 DD 10/23/19	1,780,203	1,680,323	
	BP CAPITAL MARKETS AMERICA INC 3.001% 03/17/2052 DD 09/17/21	2,286,744	1,679,085	
	APPLE INC 4.650% 02/23/2046 DD 02/23/16	1,819,535	1,669,375	
	RAYTHEON TECHNOLOGIES CORP 4.450% 11/16/2038 DD 08/16/18	2,026,590	1,661,897	
	ABBVIE INC 4.875% 11/14/2048 DD 09/18/18	1,921,640	1,659,021	
	VERIZON COMMUNICATIONS INC 4.750% 11/01/2041 DD 11/03/11	1,865,558	1,654,896	
	MORGAN STANLEY VAR RT 10/20/2032 DD 10/19/21	2,015,611	1,642,956	
	PG&E WILDFIRE RECOVERY FUNDING 4.674% 12/01/2053 DD 05/10/22	1,839,937	1,641,078	
	AMAZON.COM INC 4.050% 08/22/2047 DD 02/22/18	2,247,142	1,640,853	
	HOME DEPOT INC/THE 4.200% 04/01/2043 DD 04/05/13	1,911,454	1,610,839	
	CVS HEALTH CORP 5.050% 03/25/2048 DD 03/09/18	1,991,189	1,605,720	

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Corporate Obligations (Continued)				
	UBS GROUP AG 144A VAR RT 08/10/2027 DD 08/10/21	\$ 1,721,520	\$ 1,602,297	
	INTEL CORP 3.250% 11/15/2049 DD 11/21/19	2,272,179	1,598,150	
	ORACLE CORP 3.800% 11/15/2037 DD 11/09/17	2,210,086	1,591,340	
	ORACLE CORP 4.000% 11/15/2047 DD 11/09/17	2,449,271	1,586,640	
	UNITEDHEALTH GROUP INC 2.750% 05/15/2040 DD 05/18/20	2,111,699	1,584,860	
	GOLDMAN SACHS GROUP INC/THE VAR RT 03/09/2027 DD 03/08/21	1,585,602	1,578,474	
	NORTHWESTERN MUTUAL LIFE 144A 3.625% 09/30/2059 DD 09/20/19	2,290,730	1,574,015	
	BANK OF AMERICA CORP 4.750% 04/21/2045 DD 04/21/15	1,701,641	1,549,101	
	AMGEN INC 4.663% 06/15/2051 DD 12/15/16	1,862,725	1,539,625	
	ALTRIA GROUP INC 4.000% 02/04/2061 DD 02/04/21	2,330,965	1,536,712	
	PARKER-HANNIFIN CORP 4.250% 09/15/2027 DD 06/15/22	1,576,650	1,534,701	
	JBS USA LUX SA / JBS USA 144A 5.125% 02/01/2028 DD 06/21/22	1,606,629	1,534,545	
	VISA INC 4.300% 12/14/2045 DD 12/14/15	1,831,392	1,533,327	
	AMAZON.COM INC 2.700% 06/03/2060 DD 06/03/20	2,296,076	1,533,067	
	SAFEHOLD GL HOLDINGS LLC 2.850% 01/15/2032 DD 11/18/21	1,987,147	1,523,140	
	SEMPRA ENERGY 3.800% 02/01/2038 DD 01/12/18	1,852,602	1,520,719	
	NUTRIEN LTD 5.900% 11/07/2024 DD 11/09/22	1,499,400	1,519,590	
	METLIFE INC 4.875% 11/13/2043 DD 11/13/13	1,604,922	1,513,497	
	ORACLE CORP 4.300% 07/08/2034 DD 07/08/14	1,629,691	1,509,097	
	MORGAN STANLEY 7.250% 04/01/2032 DD 04/03/02	1,517,856	1,485,463	
	PACIFIC GAS AND ELECTRIC CO 5.250% 03/01/2052 DD 02/18/22	1,767,856	1,471,168	
	CSL FINANCE PLC 144A 4.750% 04/27/2052 DD 04/27/22	1,615,599	1,462,099	
	CANADIAN NATURAL RESOURCES LTD 3.900% 02/01/2025 DD 11/17/14	1,464,435	1,458,870	
	EQUINIX INC 2.950% 09/15/2051 DD 10/07/20	2,135,013	1,456,845	
	ALTRIA GROUP INC 5.950% 02/14/2049 DD 02/14/19	1,980,441	1,454,705	
	WELLS FARGO & CO VAR RT 10/30/2030 DD 10/31/19	1,643,952	1,453,513	
	PARKER-HANNIFIN CORP 4.200% 11/21/2034 DD 11/21/14	1,603,283	1,451,899	

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Corporate Obligations (Continued)				
	CORNING INC	5.450% 11/15/2079 DD 11/19/19	\$ 1,669,501	\$ 1,438,509
	SOUTHERN CALIFORNIA EDISON CO	3.600% 02/01/2045 DD 01/16/15	2,020,476	1,434,153
	JPMORGAN CHASE & CO	VAR RT 07/24/2048 DD 07/24/17	1,830,483	1,429,938
	ENTERPRISE PRODUCTS OPERATING	4.900% 05/15/2046 DD 05/07/15	1,764,362	1,427,261
	T-MOBILE USA INC	5.650% 01/15/2053 DD 09/15/22	1,456,131	1,424,916
	BERKSHIRE HATHAWAY ENERGY CO	2.850% 05/15/2051 DD 10/29/20	2,032,067	1,420,870
	BURLINGTON NORTHERN SANTA FE L	4.375% 09/01/2042 DD 08/23/12	1,570,858	1,414,866
	DUKE ENERGY CAROLINAS LLC	3.750% 06/01/2045 DD 03/12/15	1,999,146	1,408,099
	MORGAN STANLEY VAR RT	12/10/2026 DD 12/10/20	1,406,128	1,402,304
	BANK OF AMERICA CORP VAR RT	03/20/2051 DD 03/20/20	1,770,000	1,396,866
	SOCIETE GENERALE SA 144A VAR RT	06/09/2032 DD 06/09/21	1,426,194	1,389,960
	JPMORGAN CHASE & CO VAR RT	10/15/2030 DD 09/12/19	1,640,000	1,379,043
	PFIZER INC	4.000% 12/15/2036 DD 11/21/16	1,723,605	1,378,791
	UNION ELECTRIC CO	4.000% 04/01/2048 DD 04/06/18	1,736,043	1,378,127
	INTERNATIONAL BUSINESS MACHINE	4.900% 07/27/2052 DD 07/27/22	1,449,306	1,374,140
	NATIONWIDE MUTUAL INSURAN 144A	9.375% 08/15/2039 DD 08/10/09	1,819,036	1,362,754
	PHILLIPS 66	4.650% 11/15/2034 DD 11/17/14	1,427,178	1,353,647
	MORGAN STANLEY VAR RT	10/21/2025 DD 10/19/21	1,396,148	1,351,136
	FIFTH THIRD BANCORP VAR RT	07/28/2030 DD 07/28/22	1,400,000	1,338,120
	MEXICO GOVERNMENT INTERNATIONALA	4.400% 02/12/2052 DD 01/12/22	1,802,869	1,327,201
	WALT DISNEY CO/THE	4.625% 03/23/2040 DD 03/23/20	1,586,120	1,315,090
	DUKE ENERGY CAROLINAS LLC	3.950% 03/15/2048 DD 03/01/18	1,876,294	1,314,242
	ENERGY TRANSFER LP	4.950% 01/15/2043 DD 01/10/13	1,639,384	1,313,033
	JPMORGAN CHASE & CO VAR RT	04/23/2029 DD 04/23/18	1,450,604	1,302,262
	HCA INC	5.250% 06/15/2049 DD 06/12/19	1,716,413	1,300,826
	CHARTER COMMUNICATIONS OPERATI	3.850% 04/01/2061 DD 12/04/20	2,227,369	1,295,139
	MARSH & MCLENNAN COS INC	4.900% 03/15/2049 DD 01/15/19	1,393,507	1,291,324

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(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	QUALCOMM INC 4.500% 05/20/2052 DD 05/09/22	\$ 1,426,907	\$ 1,283,340	
	ENEL FINANCE INTERNATIONAL 144A 4.750% 05/25/2047 DD 05/25/17	1,495,269	1,282,840	
	ITC HOLDINGS CORP 5.300% 07/01/2043 DD 07/03/13	1,419,684	1,276,356	
	TARGET CORP 2.350% 02/15/2030 DD 01/28/20	1,355,100	1,276,155	
	GENERAL MILLS INC 5.241% 11/18/2025 DD 11/18/22	1,270,000	1,273,531	
	COMCAST CORP 5.250% 11/07/2025 DD 11/07/22	1,263,526	1,272,921	
	MIDAMERICAN ENERGY CO 5.750% 11/01/2035 DD 11/01/05	1,466,140	1,271,110	
	ENTERGY TEXAS RESTORATION FUND 3.697% 12/15/2036 DD 04/01/22	1,419,980	1,265,319	
	BAT CAPITAL CORP 3.984% 09/25/2050 DD 09/25/20	1,692,056	1,265,203	
	WELLS FARGO & CO VAR RT 04/25/2053 DD 04/25/22	1,420,486	1,260,279	
	BURLINGTON NORTHERN SANTA FE L 4.550% 09/01/2044 DD 08/18/14	1,642,191	1,259,630	
	CONOCOPHILLIPS CO 4.025% 03/15/2062 DD 09/15/22	1,541,780	1,256,432	
	BIOGEN INC 3.250% 02/15/2051 DD 02/15/22	1,683,453	1,254,267	
	DISCOVERY COMMUNICATIONS LLC 5.200% 09/20/2047 DD 09/21/17	1,796,207	1,251,811	
	PACIFICORP 6.250% 10/15/2037 DD 10/03/07	1,684,601	1,251,432	
	AT&T INC 3.650% 09/15/2059 DD 03/15/21	1,600,707	1,250,586	
	JOHN DEERE CAPITAL CORP 4.150% 09/15/2027 DD 09/08/22	1,272,820	1,250,036	
	PROGRESSIVE CORP/THE 4.000% 03/01/2029 DD 10/23/18	1,305,798	1,249,482	
	CANADIAN PACIFIC RAILWAY CO 3.000% 12/02/2041 DD 12/02/21	1,502,843	1,244,481	
	SHELL INTERNATIONAL FINANCE BV 6.375% 12/15/2038 DD 12/11/08	1,364,925	1,240,506	
	AT&T INC 4.500% 05/15/2035 DD 05/04/15	1,344,582	1,239,340	
	ADVANCED MICRO DEVICES INC 4.393% 06/01/2052 DD 06/09/22	1,400,000	1,239,070	
	NIKE INC 2.850% 03/27/2030 DD 03/27/20	1,276,717	1,227,452	
	CLEVELAND ELECTRIC ILLUMINATIN 5.950% 12/15/2036 DD 12/11/06	1,545,083	1,226,408	
	HOME DEPOT INC/THE 3.300% 04/15/2040 DD 03/30/20	1,516,444	1,225,867	
	BLACKROCK INC 1.900% 01/28/2031 DD 05/06/20	1,504,624	1,225,758	
	VISA INC 4.150% 12/14/2035 DD 12/14/15	1,422,726	1,222,546	
	BERKSHIRE HATHAWAY FINANCE COR 4.300% 05/15/2043 DD 05/15/13	1,655,484	1,221,072	

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Corporate Obligations (Continued)				
	PACIFIC GAS AND ELECTRIC CO 3.500% 08/01/2050 DD 06/19/20	\$ 1,892,665	\$ 1,213,286	
	UNITEDHEALTH GROUP INC 5.875% 02/15/2053 DD 10/28/22	1,112,933	1,211,829	
	NVIDIA CORP 3.500% 04/01/2040 DD 03/31/20	1,426,907	1,210,201	
	KRAFT HEINZ FOODS CO 4.375% 06/01/2046 DD 05/24/16	1,350,511	1,201,646	
	PUBLIC SERVICE ELECTRIC AND GA 4.050% 05/01/2048 DD 05/04/18	1,436,055	1,198,902	
	CONSOLIDATED EDISON CO OF NEW 3.950% 04/01/2050 DD 03/31/20	1,552,761	1,192,203	
	PHILIP MORRIS INTERNATIONAL IN 4.375% 11/15/2041 DD 11/15/11	1,587,220	1,189,457	
	REYNOLDS AMERICAN INC 4.450% 06/12/2025 DD 06/12/15	1,224,416	1,189,278	
	BANCO SANTANDER SA 5.147% 08/18/2025 DD 08/18/22	1,200,000	1,188,372	
	WASTE MANAGEMENT INC 3.125% 03/01/2025 DD 02/26/15	1,179,717	1,184,575	
	DUKE ENERGY PROGRESS LLC 4.150% 12/01/2044 DD 11/20/14	1,634,556	1,173,200	
	HOME DEPOT INC/THE 5.875% 12/16/2036 DD 12/19/06	1,524,932	1,171,467	
	CONSOLIDATED EDISON CO OF NEW 5.500% 12/01/2039 DD 12/04/09	1,314,078	1,162,592	
	PUBLIC SERVICE CO OF COLORADO 4.300% 03/15/2044 DD 03/10/14	1,350,000	1,161,330	
	FEDEX CORP 4.050% 02/15/2048 DD 01/31/18	1,508,698	1,156,703	
	BANK OF AMERICA CORP 6.110% 01/29/2037 DD 01/29/07	1,229,712	1,156,040	
	METLIFE INC 6.500% 12/15/2032 DD 12/10/02	1,138,780	1,155,389	
	CHILE GOVERNMENT INTERNATIONAL 4.340% 03/07/2042 DD 03/07/22	1,365,906	1,152,723	
	BURLINGTON NORTHERN SANTA FE L 3.900% 08/01/2046 DD 05/16/16	1,577,759	1,150,836	
	BARCLAYS PLC VAR RT 11/02/2033 DD 11/02/22	1,119,284	1,145,732	
	NESTLE HOLDINGS INC 144A 3.900% 09/24/2038 DD 09/24/18	1,266,317	1,144,397	
	TRANSCANADA PIPELINES LTD 7.250% 08/15/2038 DD 08/11/08	1,164,277	1,140,569	
	DUKE ENERGY CORP 3.300% 06/15/2041 DD 06/10/21	1,541,168	1,137,815	
	TIME WARNER CABLE LLC 6.550% 05/01/2037 DD 04/09/07	1,145,738	1,137,521	
	ELEVANCE HEALTH INC 4.650% 08/15/2044 DD 08/12/14	1,417,893	1,126,000	
	BP CAPITAL MARKETS PLC 3.723% 11/28/2028 DD 11/28/16	1,188,000	1,124,727	

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Corporate Obligations (Continued)				
	VAR ENERGI ASA 144A 7.500% 01/15/2028 DD 11/15/22	\$ 1,091,398	\$ 1,120,460	
	VERIZON COMMUNICATIONS INC 4.500% 08/10/2033 DD 08/10/17	1,186,644	1,118,172	
	MICROSOFT CORP 4.100% 02/06/2037 DD 02/06/17	1,177,439	1,117,696	
	PG&E WILDFIRE RECOVERY FUNDING 5.099% 06/01/2054 DD 07/20/22	1,179,889	1,117,484	
	VERIZON COMMUNICATIONS INC 2.650% 11/20/2040 DD 11/20/20	1,577,746	1,114,462	
	MERCK & CO INC 2.450% 06/24/2050 DD 06/24/20	1,708,788	1,114,190	
	MEXICO GOVERNMENT INTERNATIONA 4.750% 03/08/2044 DD 03/08/12	1,369,908	1,113,933	
	EXXON MOBIL CORP 3.095% 08/16/2049 DD 08/16/19	1,403,479	1,111,510	
	AIR PRODUCTS AND CHEMICALS INC 2.700% 05/15/2040 DD 04/30/20	1,420,294	1,111,359	
	ROYALTY PHARMA PLC 3.350% 09/02/2051 DD 07/26/21	1,652,202	1,099,791	
	DUKE ENERGY CORP 5.000% 08/15/2052 DD 08/11/22	1,188,093	1,094,109	
	SHELL INTERNATIONAL FINANCE BV 5.500% 03/25/2040 DD 03/25/10	1,434,161	1,091,519	
	AMERICA MOVIL SAB DE CV 6.375% 03/01/2035 DD 02/25/05	913,669	1,089,772	
	MCDONALD'S CORP 6.300% 10/15/2037 DD 10/18/07	1,319,750	1,081,110	
	ENTERPRISE PRODUCTS OPERATING 5.100% 02/15/2045 DD 02/12/14	1,168,494	1,080,662	
	VIATRIS INC 3.850% 06/22/2040 DD 06/22/21	1,591,682	1,074,153	
	DUKE ENERGY INDIANA LLC 2.750% 04/01/2050 DD 03/12/20	1,347,413	1,069,217	
	WELLS FARGO & CO VAR RT 02/11/2026 DD 02/11/20	1,105,757	1,067,026	
	DOMINION ENERGY INC 4.700% 12/01/2044 DD 11/25/14	1,240,418	1,066,467	
	TEXAS HEALTH RESOURCES 3.372% 11/15/2051 DD 09/18/19	1,540,922	1,064,571	
	CHARTER COMMUNICATIONS OPERATI 4.800% 03/01/2050 DD 10/24/19	1,205,166	1,062,822	
	AMERICAN INTERNATIONAL GROUP I 4.750% 04/01/2048 DD 03/26/18	1,156,173	1,044,397	
	AERCAP IRELAND CAPITAL DAC / A 1.650% 10/29/2024 DD 10/29/21	1,101,923	1,042,719	
	WESTERN MIDSTREAM OPERATING LP VAR RT 02/01/2050 DD 01/13/20	1,277,538	1,039,698	
	T-MOBILE USA INC 3.000% 02/15/2041 DD 02/15/21	1,427,498	1,031,753	
	DELL INTERNATIONAL LLC / EMC C 5.850% 07/15/2025 DD 01/15/21	1,071,418	1,031,638	

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Corporate Obligations (Continued)				
	ERAC USA FINANCE LLC 144A 5.625% 03/15/2042 DD 03/15/12	\$ 1,530,902	\$ 1,031,423	
	BANK OF AMERICA CORP VAR RT 03/15/2050 DD 03/15/19	1,407,963	1,020,308	
	CITIGROUP INC 4.750% 05/18/2046 DD 05/18/16	1,206,909	1,019,652	
	WALT DISNEY CO/THE 3.600% 01/13/2051 DD 05/13/20	1,424,984	1,018,820	
	BURLINGTON NORTHERN SANTA FE L 4.150% 04/01/2045 DD 03/09/15	1,165,222	1,017,370	
	FOMENTO ECONOMICO MEXICANO SAB 3.500% 01/16/2050 DD 01/16/20	1,432,463	1,016,900	
	HOME DEPOT INC/THE 3.350% 04/15/2050 DD 03/30/20	1,393,789	1,014,241	
	UNION PACIFIC CORP 3.500% 02/14/2053 DD 02/14/22	1,346,949	1,012,703	
	LOCKHEED MARTIN CORP 4.090% 09/15/2052 DD 09/07/17	1,103,877	1,009,094	
	JPMORGAN CHASE & CO VAR RT 11/19/2026 DD 11/19/20	992,695	1,008,459	
	BALTIMORE GAS AND ELECTRIC CO 6.350% 10/01/2036 DD 04/01/07	1,156,848	1,007,894	
	LOCKHEED MARTIN CORP 6.150% 09/01/2036 DD 08/30/06	1,348,511	1,007,547	
	PHILLIPS 66 3.300% 03/15/2052 DD 11/15/21	1,382,771	1,007,112	
	WACHOVIA CORP 5.500% 08/01/2035 DD 08/01/05	1,129,875	1,006,772	
	NESTLE HOLDINGS INC 144A 4.000% 09/24/2048 DD 09/24/18	1,291,974	1,005,046	
	BAXTER INTERNATIONAL INC 3.132% 12/01/2051 DD 06/01/22	1,518,231	1,003,202	
	ELECTRICITE DE FRANCE SA 144A 5.000% 09/21/2048 DD 09/21/18	1,193,740	999,031	
	MERCK & CO INC 2.900% 12/10/2061 DD 12/10/21	1,545,629	995,441	
	MORGAN STANLEY VAR RT 02/13/2032 DD 11/13/20	1,320,000	995,346	
	ENERGY TRANSFER LP 5.500% 06/01/2027 DD 12/01/18	1,002,690	994,370	
	LOWE'S COS INC 5.000% 04/15/2040 DD 03/26/20	1,065,003	993,955	
	AMGEN INC 3.000% 01/15/2052 DD 08/09/21	1,397,627	989,912	
	CONAGRA BRANDS INC 5.400% 11/01/2048 DD 10/22/18	1,209,729	987,756	
	GOLDMAN SACHS GROUP INC/THE 4.800% 07/08/2044 DD 07/08/14	1,366,384	982,975	
	AT&T INC 3.500% 06/01/2041 DD 05/28/20	1,333,432	979,833	
	CAPITAL ONE FINANCIAL CORP VAR RT 05/09/2025 DD 05/09/22	1,000,000	977,150	
	COMCAST CORP 3.900% 03/01/2038 DD 02/08/18	1,086,475	975,926	

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Corporate Obligations (Continued)				
	TELEFONICA EMISIONES SA 5.213% 03/08/2047 DD 03/08/17	\$ 1,231,813	\$ 975,292	
	UNITEDHEALTH GROUP INC 4.250% 06/15/2048 DD 06/19/18	1,303,270	974,210	
	COMCAST CORP 3.400% 04/01/2030 DD 03/27/20	1,063,115	973,048	
	BANK OF AMERICA CORP VAR RT 01/23/2026 DD 01/23/18	986,758	970,046	
	AMGEN INC 4.200% 02/22/2052 DD 02/22/22	1,220,917	969,521	
	GEORGIA POWER CO 4.300% 03/15/2043 DD 03/15/13	1,312,519	968,664	
	RAYTHEON TECHNOLOGIES CORP 2.820% 09/01/2051 DD 08/10/21	1,286,303	967,432	
	DNB BANK ASA 144A VAR RT 03/28/2025 DD 03/30/22	989,504	964,870	
	AMAZON.COM INC 3.250% 05/12/2061 DD 05/12/21	1,343,536	963,722	
	ALTRIA GROUP INC 4.250% 08/09/2042 DD 08/09/12	1,232,416	962,260	
	VMWARE INC 2.200% 08/15/2031 DD 08/02/21	1,257,518	959,251	
	RAYTHEON TECHNOLOGIES CORP 4.125% 11/16/2028 DD 08/16/18	966,750	959,050	
	CONSTELLATION BRANDS INC 5.250% 11/15/2048 DD 10/29/18	1,110,872	957,450	
	COMCAST CORP 3.969% 11/01/2047 DD 10/19/17	1,154,526	956,130	
	TRUIST FINANCIAL CORP VAR RT 06/06/2028 DD 06/06/22	999,950	955,870	
	ARCH CAPITAL FINANCE LLC 4.011% 12/15/2026 DD 12/08/16	961,720	954,850	
	DUKE ENERGY PROGRESS LLC 3.600% 09/15/2047 DD 09/08/17	1,258,148	951,376	
	NATWEST GROUP PLC VAR RT 11/10/2026 DD 11/10/22	912,000	949,857	
	SOUTHERN CALIFORNIA EDISON CO 4.500% 09/01/2040 DD 08/30/10	1,119,188	948,311	
	EXXON MOBIL CORP 4.327% 03/19/2050 DD 03/19/20	1,013,336	943,922	
	WILLIAMS COS INC/THE 6.300% 04/15/2040 DD 02/09/10	1,122,485	942,648	
	GOLDMAN SACHS GROUP INC/THE VAR RT 05/01/2029 DD 04/23/18	934,756	942,572	
	NORTHROP GRUMMAN CORP 4.030% 10/15/2047 DD 10/13/17	1,283,513	937,103	
	REYNOLDS AMERICAN INC 5.700% 08/15/2035 DD 06/12/15	1,090,022	934,421	
	NATWEST GROUP PLC VAR RT 11/01/2029 DD 11/01/19	1,007,480	932,580	
	BRISTOL-MYERS SQUIBB CO 3.700% 03/15/2052 DD 03/02/22	1,200,486	932,513	

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Corporate Obligations (Continued)				
	ABBVIE INC	2.950% 11/21/2026 DD 05/21/20	\$ 938,020	\$ 931,100
	UNICREDIT SPA	144A VAR RT 06/03/2032 DD 06/03/21	1,230,000	928,650
	BRISTOL-MYERS SQUIBB CO	4.350% 11/15/2047 DD 05/15/20	1,147,016	927,117
	DUPONT DE NEMOURS INC	5.419% 11/15/2048 DD 11/28/18	972,980	925,493
	CONSOLIDATED EDISON CO OF NEW	3.350% 04/01/2030 DD 03/31/20	1,022,663	924,437
	WELLS FARGO & CO VAR RT	03/02/2033 DD 03/02/22	1,074,208	921,442
	PHILIP MORRIS INTERNATIONAL IN	3.875% 08/21/2042 DD 08/21/12	1,147,505	920,343
	DISCOVERY COMMUNICATIONS LLC	5.300% 05/15/2049 DD 05/21/19	1,211,695	919,082
	EQUINIX INC	3.400% 02/15/2052 DD 05/17/21	1,323,128	919,076
	INTEL CORP	4.900% 08/05/2052 DD 08/05/22	1,027,909	916,443
	PECO ENERGY CO	3.700% 09/15/2047 DD 09/18/17	1,298,063	916,052
	CHURCH & DWIGHT CO INC	5.600% 11/15/2032 DD 11/02/22	878,372	915,939
	GOLDMAN SACHS GROUP INC/THE VAR RT	10/21/2032 DD 10/21/21	990,705	911,122
	ENEL FINANCE INTERNATIONALA	144A 5.500% 06/15/2052 DD 06/15/22	1,057,360	909,496
	BROADCOM INC	144A 3.469% 04/15/2034 DD 03/31/21	1,136,415	909,487
	WELLS FARGO & CO VAR RT	04/04/2051 DD 03/30/20	1,025,000	909,267
	DTE ELECTRIC CO	4.300% 07/01/2044 DD 07/02/14	1,061,671	907,862
	KLA CORP	4.950% 07/15/2052 DD 06/23/22	961,115	907,513
	MEDTRONIC INC	4.375% 03/15/2035 DD 03/15/15	971,338	907,072
	MCDONALD'S CORP	4.600% 05/26/2045 DD 05/26/15	1,052,460	906,748
	APPLE INC	4.375% 05/13/2045 DD 05/13/15	976,423	905,951
	ONEOK PARTNERS LP	6.850% 10/15/2037 DD 09/28/07	983,750	904,890
	VERIZON COMMUNICATIONS INC	3.550% 03/22/2051 DD 03/22/21	1,164,378	904,159
	BOEING CO/THE	2.700% 02/01/2027 DD 07/31/19	906,680	903,850
	ISRAEL GOVERNMENT INTERNATIONALA	4.125% 01/17/2048 DD 01/17/18	1,027,740	901,075
	CHENIERE ENERGY PARTNERS LP	4.500% 10/01/2029 DD 04/01/20	933,040	899,780
	DELL INTERNATIONAL LLC /	144A 3.375% 12/15/2041 DD 12/13/21	1,325,584	896,806

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(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	INTERCONTINENTAL EXCHANGE INC 3.000% 06/15/2050 DD 05/26/20	\$ 1,309,997	\$ 895,583	
	BP CAPITAL MARKETS AMERICA INC 3.000% 02/24/2050 DD 02/24/20	1,222,267	893,545	
	COMCAST CORP 3.200% 07/15/2036 DD 07/19/16	1,068,780	892,550	
	AMAZON.COM INC 4.250% 08/22/2057 DD 02/22/18	992,419	891,528	
	KINDER MORGAN ENERGY PARTNERS 6.950% 01/15/2038 DD 06/21/07	1,018,230	890,703	
	SCENTRE GROUP TRUST 2 144A VAR RT 09/24/2080 DD 09/24/20	1,055,000	884,090	
	BANK OF AMERICA CORP VAR RT 03/11/2032 DD 03/11/21	845,340	879,296	
	AT&T INC 1.700% 03/25/2026 DD 03/23/21	881,238	875,541	
	COCA-COLA EUROPACIFIC PAR 144A 0.500% 05/05/2023 DD 05/05/21	880,212	875,493	
	KINDER MORGAN ENERGY PARTNERS 5.500% 03/01/2044 DD 02/24/14	985,776	873,562	
	BNP PARIBAS SA 144A VAR RT 01/20/2033 DD 01/20/22	1,029,375	871,508	
	BURLINGTON NORTHERN SANTA FE L 4.050% 06/15/2048 DD 03/05/18	973,783	871,004	
	METROPOLITAN LIFE GLOBAL 144A 4.050% 08/25/2025 DD 08/25/22	889,653	870,865	
	CISCO SYSTEMS INC 5.500% 01/15/2040 DD 11/17/09	915,959	870,321	
	CHENIERE ENERGY PARTNERS LP 4.000% 03/01/2031 DD 09/01/21	907,300	868,387	
	TEACHERS INSURANCE & ANNU 144A 4.270% 05/15/2047 DD 05/08/17	1,048,634	866,259	
	TOTALENERGIES CAPITAL INTERNAT 3.386% 06/29/2060 DD 06/29/20	1,186,045	859,681	
	ASTRAZENECA PLC 4.000% 09/18/2042 DD 09/18/12	965,679	858,589	
	SOUTHERN POWER CO 5.150% 09/15/2041 DD 09/22/11	1,140,901	857,718	
	ACTIVISION BLIZZARD INC 2.500% 09/15/2050 DD 08/10/20	1,079,165	857,260	
	MORGAN STANLEY VAR RT 07/21/2032 DD 07/20/21	849,814	855,294	
	INTEL CORP 3.734% 12/08/2047 DD 06/08/18	1,193,121	854,852	
	HOME DEPOT INC/THE 3.625% 04/15/2052 DD 03/28/22	1,066,707	847,486	
	AETNA INC 4.125% 11/15/2042 DD 11/07/12	1,006,310	847,148	
	EXELON CORP 5.100% 06/15/2045 DD 12/15/15	901,959	846,908	
	NORTHROP GRUMMAN CORP 5.150% 05/01/2040 DD 03/23/20	1,171,850	843,141	
	TIME WARNER CABLE LLC 5.875% 11/15/2040 DD 11/15/10	1,048,598	840,557	

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Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year)
 EIN: 13-4922641 Plan Number: 001

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	BROWN & BROWN INC 4.500% 03/15/2029 DD 03/11/19	\$ 843,039	\$ 838,647	
	SAN DIEGO GAS & ELECTRIC CO 2.950% 08/15/2051 DD 08/13/21	1,093,568	837,778	
	COMMONWEALTH EDISON CO 3.850% 03/15/2052 DD 03/15/22	965,194	835,994	
	VISTRA OPERATIONS CO LLC 144A 5.125% 05/13/2025 DD 05/13/22	853,358	835,951	
	BROADCOM INC 4.300% 11/15/2032 DD 05/08/20	1,031,528	835,919	
	DIAMONDBACK ENERGY INC 6.250% 03/15/2053 DD 12/13/22	856,679	832,018	
	COMCAST CORP 3.999% 11/01/2049 DD 10/19/17	1,023,972	831,965	
	BRIGHTHOUSE FINANCIAL INC 4.700% 06/22/2047 DD 12/22/17	1,103,731	831,016	
	DISCOVERY COMMUNICATIONS LLC 4.650% 05/15/2050 DD 05/18/20	1,203,458	830,980	
	BOEING CO/THE 5.930% 05/01/2060 DD 05/04/20	1,012,884	829,704	
	VERIZON COMMUNICATIONS INC 3.850% 11/01/2042 DD 11/07/12	881,430	825,516	
	BANK OF AMERICA CORP VAR RT 07/22/2033 DD 07/22/22	865,000	824,008	
	AMERICAN WATER CAPITAL CORP 3.750% 09/01/2047 DD 08/10/17	1,144,897	823,673	
	CHEVRON CORP 2.978% 05/11/2040 DD 05/11/20	1,095,000	822,871	
	PHILIPPINE GOVERNMENT INTERNAT 2.950% 05/05/2045 DD 05/05/20	1,194,170	822,671	
	EIG PEARL HOLDINGS SARL 144A 4.387% 11/30/2046 DD 01/25/22	833,042	821,279	
	EXELON CORP 144A 4.100% 03/15/2052 DD 03/07/22	1,019,286	820,743	
	FEDEX CORP 4.400% 01/15/2047 DD 01/06/17	1,202,611	818,978	
	COMCAST CORP 2.987% 11/01/2063 DD 05/01/22	1,322,955	818,962	
	BAT CAPITAL CORP 3.734% 09/25/2040 DD 09/25/20	1,151,045	817,511	
	GOLDMAN SACHS GROUP INC/THE VAR RT 01/27/2032 DD 01/27/21	1,041,048	816,303	
	MICROSOFT CORP 3.450% 08/08/2036 DD 08/08/16	911,459	813,819	
	TEXAS ELECTRIC MARKET STA 144A 4.265% 08/01/2036 DD 06/15/22	850,022	813,430	
	WALT DISNEY CO/THE 3.500% 05/13/2040 DD 05/13/20	953,926	812,717	
	PERUVIAN GOVERNMENT INTERNATIO 2.780% 12/01/2060 DD 12/01/20	1,388,581	811,622	
	NORFOLK SOUTHERN CORP 3.155% 05/15/2055 DD 05/15/20	971,118	807,313	

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	Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Corporate Obligations (Continued)				
	BAT CAPITAL CORP	4.390% 08/15/2037 DD 08/15/18	\$ 1,063,732	\$ 806,732
	NORTHERN NATURAL GAS CO 144A	4.100% 09/15/2042 DD 08/27/12	967,330	800,882
	BURLINGTON NORTHERN SANTA FE L	5.400% 06/01/2041 DD 05/19/11	858,588	800,586
	KOMATSU FINANCE AMERICA I 144A	5.499% 10/06/2027 DD 10/06/22	790,288	799,970
	NORTHWELL HEALTHCARE INC	6.150% 11/01/2043 DD 09/17/13	976,891	799,177
	ATMOS ENERGY CORP	4.125% 10/15/2044 DD 10/15/14	970,173	799,130
	BERKSHIRE HATHAWAY ENERGY CO	5.950% 05/15/2037 DD 05/11/07	965,295	799,060
	SIMON PROPERTY GROUP LP	3.250% 09/13/2049 DD 09/13/19	1,177,042	797,125
	ABBVIE INC	4.450% 05/14/2046 DD 05/12/16	923,004	792,230
	SEMPRA ENERGY	4.000% 02/01/2048 DD 01/12/18	998,199	790,774
	TSMC ARIZONA CORP	3.125% 10/25/2041 DD 10/25/21	998,870	790,275
	BERKSHIRE HATHAWAY FINANCE COR	4.200% 08/15/2048 DD 08/15/18	1,028,308	788,383
	UNUM GROUP	4.500% 12/15/2049 DD 09/11/19	967,188	785,268
	RENESAS ELECTRONICS CORP 144A	1.543% 11/26/2024 DD 11/26/21	836,809	784,274
	CHARTER COMMUNICATIONS OPERATI	6.384% 10/23/2035 DD 10/23/16	809,896	783,048
	WARNERMEDIA HOLDINGS INC 144A	5.391% 03/15/2062 DD 03/15/22	1,075,000	782,364
	FOX CORP	5.476% 01/25/2039 DD 01/25/20	903,855	781,846
	BAYER US FINANCE II LLC 144A	4.700% 07/15/2064 DD 07/15/18	977,916	781,308
	COCA-COLA CO/THE	2.500% 06/01/2040	992,484	781,138
	ORACLE CORP	4.100% 03/25/2061 DD 03/24/21	1,071,381	778,972
	TARGET CORP	2.950% 01/15/2052 DD 01/24/22	1,114,380	778,714
	BERKSHIRE HATHAWAY ENERGY 144A	4.600% 05/01/2053 DD 04/21/22	865,284	778,216
	AERCAP IRELAND CAPITAL DAC / A	3.400% 10/29/2033 DD 10/29/21	944,067	776,577
	PLAINS ALL AMERICAN PIPELINE L	4.900% 02/15/2045 DD 12/09/14	930,400	776,536
	CONOCOPHILLIPS CO	3.758% 03/15/2042 DD 09/15/22	915,750	776,029
	FEDEX CORP	3.250% 05/15/2041 DD 04/29/21	1,075,723	775,818
	MERCK & CO INC	2.750% 12/10/2051 DD 12/10/21	1,152,182	775,502

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Corporate Obligations (Continued)				
	AON GLOBAL LTD 4.600% 06/14/2044 DD 05/28/14	\$ 869,507	\$ 773,208	
	APPLE INC 2.850% 08/05/2061 DD 08/05/21	1,188,584	772,762	
	MPLX LP 5.200% 12/01/2047 DD 12/01/19	936,647	770,580	
	WASTE MANAGEMENT INC 2.950% 06/01/2041 DD 05/12/21	1,024,726	769,307	
	WESTPAC BANKING CORP VAR RT 08/10/2033 DD 08/10/22	820,000	769,037	
	ENTERGY LOUISIANA LLC 3.050% 06/01/2031 DD 05/19/16	904,739	768,702	
	LEIDOS INC 2.300% 02/15/2031 DD 02/15/21	877,038	768,540	
	WALT DISNEY CO/THE 6.400% 12/15/2035 DD 06/15/19	914,587	765,522	
	HSBC HOLDINGS PLC 7.625% 05/17/2032 DD 05/17/22	957,684	764,181	
	BAYER US FINANCE LLC 144A 3.375% 10/08/2024 DD 10/08/14	781,587	763,748	
	NSTAR ELECTRIC CO 4.400% 03/01/2044 DD 03/07/14	859,023	761,788	
	ANGLO AMERICAN CAPITAL PL 144A 5.625% 04/01/2030 DD 04/01/20	847,348	756,496	
	DOMINION ENERGY INC 3.300% 04/15/2041 DD 04/05/21	1,009,111	752,147	
	RAYTHEON TECHNOLOGIES CORP 4.050% 05/04/2047 DD 05/04/17	1,037,245	751,678	
	DOMINION ENERGY INC 4.050% 09/15/2042 DD 09/13/12	935,418	750,624	
	WELLTOWER OP LLC 6.500% 03/15/2041 DD 03/14/11	932,430	746,649	
	VIRGINIA ELECTRIC AND POWER CO 4.450% 02/15/2044 DD 02/07/14	1,046,633	746,236	
	EXELON CORP 4.700% 04/15/2050 DD 04/01/20	933,499	744,504	
	AMGEN INC 4.400% 05/01/2045 DD 05/01/15	982,051	744,258	
	PARAMOUNT GLOBAL 4.950% 05/19/2050 DD 05/19/20	905,933	743,153	
	HSBC HOLDINGS PLC VAR RT 08/17/2029 DD 08/17/21	747,803	742,824	
	GE HEALTHCARE TECHNOLOGIE 144A 6.377% 11/22/2052 DD 11/22/22	690,000	742,785	
	CHARTER COMMUNICATIONS OPERATI 5.125% 07/01/2049 DD 07/10/19	953,574	742,268	
	PECO ENERGY CO 3.000% 09/15/2049 DD 09/10/19	1,063,018	740,847	
	HSBC HOLDINGS PLC VAR RT 08/11/2033 DD 08/11/22	793,782	738,635	
	PANAMA GOVERNMENT INTERNATIONA 4.300% 04/29/2053 DD 04/29/13	1,002,414	738,281	
	PEPSICO INC 3.900% 07/18/2032 DD 07/18/22	778,783	737,646	

American Electric Power System Retirement Plan

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Corporate Obligations (Continued)				
	JOHNSON & JOHNSON 3.700% 03/01/2046 DD 03/01/16	\$ 995,696	\$ 735,289	
	CITIGROUP INC 8.125% 07/15/2039 DD 07/23/09	1,031,040	734,420	
	ABBVIE INC 4.400% 11/06/2042 DD 05/06/13	829,024	732,371	
	ALCON FINANCE CORP 144A 3.800% 09/23/2049 DD 09/23/19	866,561	730,346	
	ANHEUSER-BUSCH INBEV WORLDWIDE 4.375% 04/15/2038 DD 04/04/18	815,878	730,326	
	GENERAL DYNAMICS CORP 4.250% 04/01/2040 DD 03/25/20	879,651	729,524	
	JPMORGAN CHASE & CO VAR RT 04/22/2052 DD 04/22/21	1,020,895	728,811	
	TARGA RESOURCES CORP 4.950% 04/15/2052 DD 04/06/22	892,240	727,846	
	ROYALTY PHARMA PLC 3.550% 09/02/2050 DD 03/02/21	1,105,370	727,494	
	CHILE GOVERNMENT INTERNATIONAL 3.100% 05/07/2041	989,164	720,561	
	ENBRIDGE INC 4.500% 06/10/2044 DD 06/04/14	837,043	719,594	
	SHELL INTERNATIONAL FINANCE BV 4.550% 08/12/2043 DD 08/12/13	825,876	719,539	
	GOLDMAN SACHS GROUP INC/THE VAR RT 07/21/2042 DD 07/21/21	990,271	719,030	
	UNITEDHEALTH GROUP INC 6.050% 02/15/2063 DD 10/28/22	647,271	715,869	
	JPMORGAN CHASE & CO VAR RT 04/26/2028 DD 04/26/22	721,590	714,608	
	CITIGROUP INC VAR RT 01/24/2039 DD 01/24/18	914,592	714,522	
	WELLS FARGO & CO VAR RT 04/30/2041 DD 04/30/20	764,810	714,130	
	OGLETHORPE POWER CORP 5.050% 10/01/2048 DD 04/01/19	945,628	713,850	
	TOYOTA MOTOR CREDIT CORP 5.400% 11/10/2025 DD 11/10/22	702,535	710,864	
	JPMORGAN CHASE & CO VAR RT 07/25/2033 DD 07/25/22	731,583	707,943	
	ILLUMINA INC 5.750% 12/13/2027 DD 12/13/22	699,041	707,231	
	MEXICO CITY AIRPORT TRUST 144A 5.500% 07/31/2047 DD 09/20/17	951,511	705,320	
	DANAHER CORP 2.800% 12/10/2051 DD 12/10/21	806,189	704,339	
	CLECO CORPORATE HOLDINGS LLC VAR RT 05/01/2046 DD 11/01/16	945,364	704,180	
	BAKER HUGHES HOLDINGS LLC / BA 4.486% 05/01/2030 DD 05/01/20	735,000	702,417	
	ATMOS ENERGY CORP 5.750% 10/15/2052 DD 10/03/22	662,247	699,327	

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	Corporate Obligations (Continued)			
	WELLS FARGO & CO VAR RT 05/22/2028 DD 05/22/17		\$ 700,695	\$ 697,403
	HCA INC 5.000% 03/15/2024 DD 03/17/14		697,711	696,213
	NORTHWESTERN MUTUAL LIFE 144A 3.850% 09/30/2047 DD 09/26/17		900,079	693,079
	SOUTHWESTERN PUBLIC SERVICE CO 4.400% 11/15/2048 DD 11/05/18		814,711	693,023
	GLENCORE FUNDING LLC 144A 4.625% 04/29/2024 DD 04/29/14		692,454	691,740
	DUKE ENERGY OHIO INC 3.700% 06/15/2046 DD 06/23/16		1,024,572	689,688
	MITSUBISHI UFJ FINANCIAL GROUP VAR RT 07/19/2025 DD 07/20/21		701,705	687,874
	UBS AG/LONDON 144A 4.500% 06/26/2048 DD 06/26/18		633,315	682,846
	DOMINION ENERGY INC 5.950% 06/15/2035 DD 06/20/05		602,494	682,686
	PARAMOUNT GLOBAL 4.900% 08/15/2044 DD 08/19/14		840,852	681,616
	WALMART INC 2.650% 09/22/2051 DD 09/22/21		937,852	680,850
	PUBLIC SERVICE ELECTRIC AND GA 2.700% 05/01/2050 DD 05/08/20		1,040,736	680,744
	INTERNATIONAL FLAVORS & F 144A 3.268% 11/15/2040 DD 09/16/20		944,943	679,304
	CF INDUSTRIES INC 5.375% 03/15/2044 DD 03/11/14		760,808	678,795
	PHILIP MORRIS INTERNATIONAL IN 6.375% 05/16/2038 DD 05/16/08		815,450	677,366
	DUKE ENERGY CORP 0.900% 09/15/2025 DD 09/11/20		682,512	675,257
	PETROLEOS MEXICANOS 7.690% 01/23/2050 DD 07/23/20		1,028,041	674,720
	PROGRESSIVE CORP/THE 4.125% 04/15/2047 DD 04/06/17		716,712	674,184
	BOEING CO/THE 3.500% 03/01/2039 DD 02/15/19		968,464	669,700
	GILEAD SCIENCES INC 4.000% 09/01/2036 DD 09/20/16		751,691	669,430
	EASTERN GAS TRANSMISSION & STO 4.600% 12/15/2044 DD 06/15/22		1,001,825	668,299
	PLAINS ALL AMERICAN PIPELINE L 5.150% 06/01/2042 DD 03/22/12		747,110	665,798
	MASTERCARD INC 3.650% 06/01/2049 DD 05/31/19		868,479	665,350
	SOUTHERN CO/THE 5.150% 10/06/2025 DD 10/06/22		660,261	664,891
	ROCHE HOLDINGS INC 144A 2.607% 12/13/2051 DD 12/13/21		933,203	663,255
	SALESFORCE INC 3.700% 04/11/2028 DD 04/11/18		664,318	663,097
	NORTHWESTERN UNIVERSITY 2.640% 12/01/2050 DD 05/28/20		982,740	663,049

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Corporate Obligations (Continued)				
	ENI SPA 144A 5.700% 10/01/2040 DD 10/01/10	\$ 755,827	\$ 661,693	
	JPMORGAN CHASE & CO VAR RT 04/22/2041 DD 04/22/20	834,244	661,618	
	CREDIT SUISSE GROUP AG 144A VAR RT 08/12/2033 DD 08/12/22	746,359	660,090	
	WARNERMEDIA HOLDINGS INC 144A 4.279% 03/15/2032 DD 03/15/22	688,728	659,896	
	MORGAN STANLEY 6.375% 07/24/2042 DD 07/24/12	767,757	659,611	
	MOSAIC CO/THE 5.450% 11/15/2033 DD 11/13/13	713,544	659,418	
	TIME WARNER CABLE LLC 4.500% 09/15/2042 DD 08/10/12	832,218	659,196	
	BP CAPITAL MARKETS AMERICA INC 3.379% 02/08/2061 DD 02/08/21	912,670	658,788	
	UNION PACIFIC CORP 3.250% 02/05/2050 DD 01/31/20	854,782	658,388	
	DUKE ENERGY CORP 5.000% 12/08/2027 DD 12/08/22	660,062	657,386	
	PACIFIC LIFE INSURANCE CO 144A VAR RT 10/24/2067 DD 10/24/17	880,898	656,723	
	PARAMOUNT GLOBAL 4.375% 03/15/2043 DD 03/15/13	803,844	656,651	
	PETROLEOS MEXICANOS 6.950% 01/28/2060 DD 07/28/20	1,050,223	655,280	
	DIAMONDBACK ENERGY INC 4.400% 03/24/2051 DD 03/24/21	852,170	655,075	
	ENERGY TRANSFER LP 5.000% 05/15/2050 DD 01/22/20	839,831	654,814	
	NORTHWESTERN MUTUAL GLOBA 144A 4.350% 09/15/2027 DD 09/15/22	669,732	653,330	
	MITSUBISHI UFJ FINANCIAL GROUP VAR RT 01/19/2028 DD 01/19/22	689,611	652,251	
	HCA INC 144A 4.625% 03/15/2052 DD 03/09/22	823,013	650,587	
	DISCOVERY COMMUNICATIONS LLC 4.000% 09/15/2055 DD 03/15/21	935,249	648,374	
	QUANTA SERVICES INC 3.050% 10/01/2041 DD 09/23/21	974,904	647,907	
	IMPERIAL BRANDS FINANCE P 144A 6.125% 07/27/2027 DD 07/27/22	643,214	647,803	
	STRYKER CORP 4.375% 05/15/2044 DD 05/01/14	751,610	647,715	
	UNITEDHEALTH GROUP INC 3.700% 08/15/2049 DD 07/25/19	828,441	647,349	
	ENERGY TRANSFER LP 5.300% 04/01/2044 DD 04/03/14	759,981	644,566	
	METLIFE INC 5.000% 07/15/2052 DD 07/11/22	673,846	642,755	
	AMERICAN WATER CAPITAL CORP 2.800% 05/01/2030 DD 04/14/20	736,973	641,832	

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Corporate Obligations (Continued)				
	AKER BP ASA 144A 3.100% 07/15/2031 DD 06/23/21	\$ 778,518	\$ 640,302	
	CVS HEALTH CORP 5.125% 07/20/2045 DD 07/20/15	739,649	639,703	
	ONCOR ELECTRIC DELIVERY CO LLC 3.750% 04/01/2045 DD 10/01/15	903,291	639,521	
	GE CAPITAL FUNDING LLC 4.550% 05/15/2032 DD 11/15/20	699,136	638,702	
	MARSH & MCLENNAN COS INC 4.750% 03/15/2039 DD 01/15/19	817,762	637,381	
	HOME DEPOT INC/THE 4.500% 12/06/2048 DD 12/06/18	700,510	637,330	
	KEYSPAN GAS EAST CORP 144A 3.586% 01/18/2052 DD 01/18/22	950,000	633,992	
	BANK OF AMERICA CORP VAR RT 04/27/2033 DD 04/27/22	654,520	633,724	
	ORACLE CORP 3.650% 03/25/2041 DD 03/24/21	662,261	630,360	
	CVS HEALTH CORP 2.700% 08/21/2040 DD 08/21/20	904,584	629,174	
	UNITEDHEALTH GROUP INC 4.200% 01/15/2047 DD 12/20/16	724,547	628,413	
	J M SMUCKER CO/THE 4.250% 03/15/2035 DD 09/15/15	697,389	628,355	
	CONSOLIDATED EDISON CO OF NEW 3.700% 11/15/2059 DD 11/08/19	837,977	627,160	
	CONOCOPHILLIPS CO 3.800% 03/15/2052 DD 03/08/22	780,688	626,857	
	EASTERN GAS TRANSMISSION & STO 4.800% 11/01/2043 DD 05/01/22	905,710	626,414	
	GRUPO BIMBO SAB DE CV 144A 4.700% 11/10/2047 DD 11/10/17	859,924	625,037	
	NBCUNIVERSAL MEDIA LLC 4.450% 01/15/2043 DD 10/05/12	699,626	622,978	
	SUNCOR ENERGY INC 4.000% 11/15/2047 DD 11/15/17	889,000	622,236	
	RAYTHEON TECHNOLOGIES CORP 4.200% 12/15/2044 DD 06/15/20	976,069	621,422	
	SOUTHWESTERN PUBLIC SERVICE CO 3.400% 08/15/2046 DD 08/12/16	866,064	620,653	
	SOUTHERN CO GAS CAPITAL CORP 4.400% 05/30/2047 DD 05/09/17	944,570	618,841	
	CITIGROUP INC 5.875% 01/30/2042 DD 01/26/12	652,620	618,758	
	CSX CORP 4.100% 03/15/2044 DD 10/22/12	810,640	616,127	
	COMMONWEALTH EDISON CO 3.650% 06/15/2046 DD 06/27/16	888,720	615,455	
	CONSUMERS ENERGY CO 3.100% 08/15/2050 DD 09/03/19	862,761	614,671	
	CITIGROUP INC VAR RT 01/25/2033 DD 01/25/22	755,000	612,532	
	ENERGY TRANSFER LP 6.625% 10/15/2036 DD 10/23/06	677,172	608,981	

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Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year)
 EIN: 13-4922641 Plan Number: 001

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(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	TARGA RESOURCES CORP 6.250% 07/01/2052 DD 07/07/22	\$ 638,547	\$ 607,955	
	DUKE ENERGY FLORIDA LLC 6.350% 09/15/2037 DD 09/18/07	716,799	607,845	
	VERIZON COMMUNICATIONS INC 2.875% 11/20/2050 DD 11/20/20	925,899	607,073	
	CONSOLIDATED EDISON CO OF NEW 5.850% 03/15/2036 DD 03/09/06	562,376	605,919	
	HOME DEPOT INC/THE 4.250% 04/01/2046 DD 06/02/15	871,954	605,588	
	MICROSOFT CORP 2.675% 06/01/2060 DD 06/01/20	853,864	605,169	
	PRECISION CASTPARTS CORP 4.375% 06/15/2045 DD 06/10/15	688,706	604,853	
	COREBRIDGE FINANCIAL INC 144A 4.350% 04/05/2042 DD 04/05/22	706,881	602,374	
	VODAFONE GROUP PLC 4.375% 02/19/2043 DD 02/19/13	722,674	602,025	
	PUBLIC SERVICE ENTERPRISE GROU 0.841% 11/08/2023 DD 11/08/21	625,000	601,775	
	PACIFIC GAS AND ELECTRIC CO 4.400% 03/01/2032 DD 02/18/22	673,284	599,861	
	SABINE PASS LIQUEFACTION LLC 4.500% 05/15/2030 DD 11/15/20	643,349	599,444	
	GE HEALTHCARE TECHNOLOGIE 144A 5.600% 11/15/2025 DD 11/22/22	595,316	599,123	
	MORGAN STANLEY 4.300% 01/27/2045 DD 01/27/15	592,207	598,668	
	BANK OF AMERICA CORP VAR RT 02/04/2033 DD 02/04/22	695,289	598,468	
	PUBLIC SERVICE ENTERPRISE GROU 5.850% 11/15/2027 DD 11/08/22	583,195	597,771	
	PARAMOUNT GLOBAL 5.850% 09/01/2043 DD 08/19/13	594,041	597,516	
	W R BERKLEY CORP 3.550% 03/30/2052 DD 03/16/21	851,477	596,653	
	PG&E WILDFIRE RECOVERY FUNDING 3.594% 06/01/2032 DD 05/10/22	625,908	595,975	
	NVIDIA CORP 3.500% 04/01/2050 DD 03/31/20	756,235	594,488	
	CHILE GOVERNMENT INTERNATIONAL 3.500% 01/25/2050 DD 06/25/19	860,285	594,289	
	SOUTHERN CALIFORNIA EDISON CO 3.650% 02/01/2050 DD 01/09/20	850,794	593,153	
	AMERICAN TRANSMISSION SYS 144A 2.650% 01/15/2032 DD 12/01/21	718,013	592,920	
	TIME WARNER CABLE LLC 6.750% 06/15/2039 DD 06/29/09	772,563	592,919	
	SES GLOBAL AMERICAS HOLDI 144A 5.300% 03/25/2044 DD 03/25/14	718,296	592,400	
	BANK OF AMERICA CORP VAR RT 02/13/2031 DD 02/13/20	638,957	590,962	

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	TRANE TECHNOLOGIES LUXEMBOURG 4.500% 03/21/2049 DD 03/21/19	\$ 843,160	\$ 587,513	
	STARBUCKS CORP 4.450% 08/15/2049 DD 05/13/19	683,794	586,456	
	BP CAPITAL MARKETS PLC VAR RT 12/31/2049 DD 06/22/20	670,000	586,250	
	APPLE INC 3.850% 08/04/2046 DD 08/04/16	577,031	584,305	
	SOUTHERN CALIFORNIA EDISON CO 5.950% 02/01/2038 DD 01/22/08	698,973	584,029	
	KAISER FOUNDATION HOSPITALS 2.810% 06/01/2041 DD 06/15/21	800,000	583,384	
	NEWCREST FINANCE PTY LTD 144A 4.200% 05/13/2050 DD 05/13/20	850,827	583,307	
	ENERGY TRANSFER LP 6.000% 06/15/2048 DD 06/08/18	684,107	582,751	
	BANK OF AMERICA CORP VAR RT 07/23/2030 DD 07/23/19	675,000	582,073	
	EVERSOURCE ENERGY 2.800% 05/01/2023 DD 05/13/13	606,755	582,017	
	ENTERPRISE PRODUCTS OPERATING VAR RT 08/16/2077 DD 08/16/17	752,760	580,140	
	MORGAN STANLEY VAR RT 01/22/2031 DD 01/22/20	700,000	580,083	
	MEXICO GOVERNMENT INTERNATIONA 5.000% 04/27/2051	743,960	579,546	
	MORGAN STANLEY VAR RT 04/22/2042 DD 04/22/21	735,015	578,401	
	KINDER MORGAN INC 5.300% 12/01/2034 DD 11/26/14	633,821	574,108	
	BROADCOM INC 144A 3.500% 02/15/2041 DD 01/19/21	792,249	571,494	
	BOSTON SCIENTIFIC CORP 4.550% 03/01/2039 DD 02/25/19	715,623	570,941	
	QUALCOMM INC 4.650% 05/20/2035 DD 05/20/15	659,208	567,502	
	NORTHERN STATES POWER CO/MN 2.600% 06/01/2051 DD 06/15/20	868,344	566,701	
	KAISER FOUNDATION HOSPITALS 3.002% 06/01/2051 DD 06/15/21	802,809	566,618	
	HSBC HOLDINGS PLC VAR RT 03/29/2033 DD 03/29/22	648,759	560,828	
	PANAMA GOVERNMENT INTERNATIONA 4.500% 04/01/2056 DD 04/01/20	798,531	560,522	
	HUNTINGTON NATIONAL BANK/THE 5.650% 01/10/2030 DD 11/18/22	555,711	558,075	
	WESTPAC BANKING CORP 5.457% 11/18/2027 DD 11/18/22	549,953	557,464	
	PHILIP MORRIS INTERNATIONAL IN 5.750% 11/17/2032 DD 11/17/22	545,451	557,295	
	INTEL CORP 4.750% 03/25/2050 DD 03/25/20	639,290	556,774	

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Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year)
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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	CREDIT SUISSE GROUP AG 144A VAR RT 08/11/2028 DD 08/12/22	\$ 610,000	\$ 556,326	
	BAT CAPITAL CORP 4.540% 08/15/2047 DD 08/15/18	877,822	554,947	
	PACIFIC GAS AND ELECTRIC CO 4.500% 07/01/2040 DD 07/02/20	597,070	553,735	
	BRISTOL-MYERS SQUIBB CO 2.550% 11/13/2050 DD 11/13/20	814,245	550,266	
	ALTRIA GROUP INC 3.875% 09/16/2046 DD 09/16/16	760,589	548,870	
	ENERGY TRANSFER LP 7.500% 07/01/2038 DD 03/28/08	627,820	547,299	
	SALESFORCE INC 2.900% 07/15/2051 DD 07/12/21	822,698	544,805	
	INTEL CORP 3.100% 02/15/2060 DD 02/13/20	869,234	544,705	
	NARRAGANSETT ELECTRIC CO/ 144A 5.638% 03/15/2040 DD 03/22/10	564,000	544,565	
	NEW YORK AND PRESBYTERIAN HOSP 4.024% 08/01/2045 DD 02/05/15	646,597	544,393	
	GLP CAPITAL LP / GLP FINANCING 5.300% 01/15/2029 DD 09/26/18	581,889	544,059	
	CITIGROUP INC VAR RT 04/24/2048 DD 04/25/17	783,327	543,715	
	SOUTHERN CO GAS CAPITAL CORP 3.150% 09/30/2051 DD 09/10/21	782,267	541,716	
	BOEING CO/THE 3.250% 03/01/2028 DD 02/23/18	588,788	541,644	
	AMAZON.COM INC 3.100% 05/12/2051 DD 05/12/21	722,701	541,184	
	SOUTHERN CALIFORNIA EDISON CO 4.125% 03/01/2048 DD 03/05/18	653,697	538,793	
	NATWEST GROUP PLC VAR RT 05/18/2029 DD 05/18/18	543,877	538,350	
	CSL FINANCE PLC 144A 4.950% 04/27/2062 DD 04/27/22	605,295	536,916	
	HALEON US CAPITAL LLC 3.375% 03/24/2027 DD 09/24/22	564,415	536,119	
	BAKER HUGHES HOLDINGS LLC 5.125% 09/15/2040 DD 08/24/10	682,350	535,228	
	WESTPAC BANKING CORP 3.133% 11/18/2041 DD 11/18/21	553,520	531,072	
	SOUTHERN CALIFORNIA EDISON CO 5.550% 01/15/2037 DD 12/11/06	577,946	530,269	
	WELLS FARGO & CO VAR RT 07/25/2033 DD 07/25/22	560,000	530,247	
	TOYOTA MOTOR CREDIT CORP 3.650% 08/18/2025 DD 08/18/22	544,510	530,013	
	NATIONAL RURAL UTILITIES COOPE 4.300% 03/15/2049 DD 01/31/19	770,591	528,955	
	UTAH ACQUISITION SUB INC 3.950% 06/15/2026 DD 12/15/16	531,140	528,823	

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	ASTRAZENECA PLC 4.375% 11/16/2045 DD 11/16/15	\$ 674,434	\$ 528,050	
	PHILLIPS 66 CO 144A 4.900% 10/01/2046 DD 04/01/22	590,674	527,508	
	APPLE INC 3.950% 08/08/2052 DD 08/08/22	615,902	526,851	
	UNITEDHEALTH GROUP INC 6.500% 06/15/2037 DD 12/15/07	589,286	526,325	
	AMERICAN TOWER CORP 3.100% 06/15/2050 DD 06/03/20	778,738	525,154	
	FORTINET INC 2.200% 03/15/2031 DD 03/05/21	677,688	525,144	
	LOCKHEED MARTIN CORP 5.700% 11/15/2054 DD 10/24/22	490,941	524,329	
	GOLDMAN SACHS GROUP INC/THE 3.800% 03/15/2030 DD 03/19/20	577,367	524,079	
	UNITED PARCEL SERVICE INC 3.750% 11/15/2047 DD 11/14/17	633,406	523,265	
	MORGAN STANLEY VAR RT 01/25/2024 DD 01/25/21	524,634	521,488	
	KINDER MORGAN ENERGY PARTNERS 5.800% 03/15/2035 DD 03/15/05	631,209	519,739	
	ENI SPA 144A 4.250% 05/09/2029 DD 05/09/19	558,555	519,070	
	MEXICO GOVERNMENT INTERNATIONAL 5.000% 04/27/2051 DD 04/27/20	577,605	518,752	
	NUTRIEN LTD 4.125% 03/15/2035 DD 03/15/18	572,230	517,366	
	LOWE'S COS INC 5.800% 09/15/2062 DD 09/08/22	530,955	517,340	
	NISOURCE INC 3.950% 03/30/2048 DD 09/14/17	659,287	516,212	
	LOUISIANA LOCAL GOVERNMENT ELL A2 4.145% 02/01/2033 DD 05/19/22	545,000	516,164	
	NORTHWESTERN MUTUAL LIFE 144A 3.450% 03/30/2051 DD 03/22/21	727,460	515,643	
	INTERCONTINENTAL EXCHANGE INC 4.950% 06/15/2052 DD 05/23/22	549,213	515,609	
	APPLE INC 4.500% 02/23/2036 DD 02/23/16	514,570	514,834	
	GLAXOSMITHKLINE CAPITAL INC 6.375% 05/15/2038 DD 05/13/08	569,111	514,755	
	JPMORGAN CHASE & CO VAR RT 06/23/2025 DD 06/23/21	550,238	512,677	
	SOUTHERN CALIFORNIA EDISON CO 4.000% 04/01/2047 DD 03/24/17	671,459	508,375	
	KANSAS GAS SERVICE SECURITIZAT 5.486% 08/01/2034 DD 11/18/22	499,897	505,095	
	PACIFICORP 3.300% 03/15/2051 DD 04/08/20	721,818	502,409	
	GREAT-WEST LIFECO FINANCE 144A 4.150% 06/03/2047 DD 05/26/17	638,964	500,130	

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Corporate Obligations (Continued)				
	WALT DISNEY CO/THE 4.750% 11/15/2046 DD 11/15/19	\$ 628,140	\$ 498,969	
	TRAVELERS COS INC/THE 6.750% 06/20/2036 DD 06/20/06	539,412	498,386	
	RAYTHEON TECHNOLOGIES CORP 4.800% 12/15/2043 DD 06/15/20	719,755	496,741	
	CHARTER COMMUNICATIONS OPERATI 3.700% 04/01/2051 DD 04/17/20	801,212	495,566	
	FEDEX CORP 4.550% 04/01/2046 DD 03/24/16	624,830	495,433	
	ALTRIA GROUP INC 4.450% 05/06/2050 DD 05/06/20	655,222	494,558	
	ONEOK INC 6.100% 11/15/2032 DD 11/18/22	489,603	493,058	
	MOLSON COORS BEVERAGE CO 4.200% 07/15/2046 DD 07/07/16	636,705	491,772	
	MARATHON OIL CORP 6.600% 10/01/2037 DD 09/27/07	565,839	489,303	
	ALBEMARLE CORP 4.650% 06/01/2027 DD 05/13/22	491,915	488,460	
	DIAMONDBACK ENERGY INC 4.250% 03/15/2052 DD 03/17/22	576,195	488,288	
	SOUTHERN NATURAL GAS CO L 144A 4.800% 03/15/2047 DD 03/14/17	595,305	487,009	
	ALIBABA GROUP HOLDING LTD 4.000% 12/06/2037 DD 12/06/17	639,190	486,197	
	FIDELITY NATIONAL INFORMATION 4.500% 07/15/2025 DD 07/13/22	494,822	485,763	
	LEIDOS INC 4.375% 05/15/2030 DD 05/15/21	530,557	483,784	
	TEXAS HEALTH RESOURCES 4.330% 11/15/2055 DD 05/05/15	568,907	483,726	
	HSBC HOLDINGS PLC 6.500% 09/15/2037 DD 09/15/22	674,960	482,030	
	HCA INC 5.500% 06/15/2047 DD 06/22/17	653,238	481,372	
	DEUTSCHE TELEKOM INTERNAT 144A 4.875% 03/06/2042 DD 03/06/12	529,837	480,601	
	EQUITABLE HOLDINGS INC 5.000% 04/20/2048 DD 10/20/18	582,981	480,314	
	THERMO FISHER SCIENTIFIC INC 2.800% 10/15/2041 DD 08/23/21	508,346	480,123	
	NISOURCE INC 5.000% 06/15/2052 DD 06/10/22	522,974	479,740	
	TRANSCANADA TRUST VAR RT 03/15/2077 DD 03/02/17	598,500	478,800	
	FEDEX CORP 3.900% 02/01/2035 DD 01/09/15	529,719	478,380	
	TSMC ARIZONA CORP 4.500% 04/22/2052 DD 04/22/22	514,865	477,977	
	HERSHEY CO/THE 2.650% 06/01/2050 DD 06/01/20	727,598	477,763	
	VICI PROPERTIES LP 5.625% 05/15/2052 DD 04/29/22	533,935	477,668	

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Corporate Obligations (Continued)				
	GOLDMAN SACHS GROUP INC/THE VAR RT 02/24/2043 DD 01/24/22	\$ 645,000	\$ 477,029	
	ENTERGY LOUISIANA LLC 2.900% 03/15/2051 DD 03/06/20	763,274	476,758	
	BALTIMORE GAS AND ELECTRIC CO 2.900% 06/15/2050 DD 06/05/20	703,099	474,706	
	BP CAPITAL MARKETS AMERICA INC 2.939% 06/04/2051 DD 12/04/20	669,759	474,317	
	EATON CORP 4.700% 08/23/2052 DD 08/23/22	516,852	474,089	
	PUBLIC SERVICE CO OF COLORADO 4.500% 06/01/2052 DD 05/17/22	502,072	473,970	
	SABINE PASS LIQUEFACTION 144A 5.900% 09/15/2037 DD 11/29/22	472,017	471,810	
	PHILIP MORRIS INTERNATIONAL IN 4.875% 11/15/2043 DD 11/12/13	562,876	471,787	
	DUQUESNE LIGHT HOLDINGS I 144A 2.775% 01/07/2032 DD 07/07/21	600,000	470,916	
	SOUTHERN CALIFORNIA EDISON CO 3.900% 03/15/2043 DD 03/07/13	645,920	468,881	
	RIO TINTO FINANCE USA PLC 4.125% 08/21/2042 DD 08/21/12	642,687	468,018	
	AETNA INC 3.875% 08/15/2047 DD 08/10/17	539,146	464,843	
	BAT CAPITAL CORP 7.750% 10/19/2032 DD 10/19/22	429,563	464,576	
	SUTTER HEALTH 3.361% 08/15/2050 DD 10/29/20	651,981	463,818	
	OGLETHORPE POWER CORP 144A 4.500% 04/01/2047 DD 04/12/22	577,425	463,606	
	SOUTHERN CALIFORNIA GAS CO 4.300% 01/15/2049 DD 09/24/18	558,748	463,545	
	MCDONALD'S CORP 3.625% 09/01/2049 DD 08/12/19	609,263	461,697	
	PPL ELECTRIC UTILITIES CORP 4.125% 06/15/2044 DD 06/05/14	549,945	461,461	
	HSBC HOLDINGS PLC VAR RT 05/22/2030 DD 05/22/19	556,967	460,845	
	WISCONSIN PUBLIC SERVICE CORP 5.350% 11/10/2025 DD 11/10/22	457,800	460,424	
	CITIGROUP INC VAR RT 07/24/2028 DD 07/24/17	464,215	460,325	
	OTIS WORLDWIDE CORP 3.112% 02/15/2040 DD 08/15/20	609,763	457,591	
	PEPSICO INC 3.625% 03/19/2050 DD 03/19/20	552,081	457,370	
	HSBC HOLDINGS PLC VAR RT 08/18/2031 DD 08/18/20	595,000	456,020	
	STELLANTIS FINANCE US INC 144A 2.691% 09/15/2031 DD 09/15/21	595,000	455,473	
	AMGEN INC 3.375% 02/21/2050 DD 02/21/20	496,139	455,325	

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Corporate Obligations (Continued)				
	AON CORP / AON GLOBAL HOLDINGS 3.900% 02/28/2052 DD 02/28/22	\$ 581,067	\$ 454,005	
	VIRGINIA ELECTRIC AND POWER CO 2.950% 11/15/2051 DD 11/22/21	638,520	453,970	
	NATIONAL BANK OF CANADA VAR RT 06/09/2025 DD 06/09/22	464,647	452,064	
	PACIFIC GAS AND ELECTRIC CO 4.200% 06/01/2041 DD 03/11/21	603,233	450,344	
	BANK OF AMERICA CORP VAR RT 10/24/2031 DD 10/21/20	585,000	447,455	
	LINDE INC/CT 4.700% 12/05/2025 DD 12/05/22	445,708	445,930	
	SHELL INTERNATIONAL FINANCE BV 3.000% 11/26/2051 DD 11/26/21	656,478	445,741	
	UNITEDHEALTH GROUP INC 5.350% 02/15/2033 DD 10/28/22	428,422	444,943	
	GENERAL MOTORS CO 5.600% 10/15/2032 DD 08/02/22	465,239	443,759	
	PUBLIC STORAGE VAR RT 04/23/2024 DD 04/23/21	445,000	441,854	
	STRYKER CORP 4.100% 04/01/2043 DD 03/25/13	527,406	441,247	
	INTERNATIONAL BUSINESS MACHINE 3.430% 02/09/2052 DD 02/09/22	624,881	441,206	
	DOMINION ENERGY SOUTH CAROLINA 5.100% 06/01/2065 DD 05/22/15	593,415	440,208	
	MASSACHUSETTS MUTUAL LIFE 144A 3.729% 10/15/2070 DD 10/11/19	625,202	438,904	
	ALTRIA GROUP INC 3.400% 02/04/2041 DD 02/04/21	525,689	438,167	
	BAT CAPITAL CORP 4.742% 03/16/2032 DD 03/16/22	490,000	436,208	
	ORACLE CORP 3.850% 04/01/2060 DD 04/01/20	647,498	435,286	
	META PLATFORMS INC 3.500% 08/15/2027 DD 08/09/22	459,935	434,096	
	UNITED PARCEL SERVICE INC 5.200% 04/01/2040 DD 03/24/20	427,932	432,193	
	CK HUTCHISON INTERNATIONA 144A 3.375% 09/06/2049 DD 09/06/19	598,012	430,845	
	REGIONS FINANCIAL CORP 7.375% 12/10/2037 DD 12/10/07	462,274	429,271	
	PHILIPPINE GOVERNMENT INTERNAT 4.200% 03/29/2047 DD 03/29/22	502,000	428,485	
	MASSACHUSETTS MUTUAL LIFE 144A 4.900% 04/01/2077 DD 03/23/17	696,129	428,173	
	PG&E ENERGY RECOVERY FUNDING L 2.822% 07/15/2048 DD 11/12/21	609,972	428,074	
	SHELL INTERNATIONAL FINANCE BV 2.875% 11/26/2041 DD 11/26/21	556,649	427,436	
	GRUPO BIMBO SAB DE CV 144A 4.000% 09/06/2049 DD 09/06/19	551,597	427,202	

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year)
 EIN: 13-4922641 Plan Number: 001

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(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	HERSHEY CO/THE 3.125% 11/15/2049 DD 10/31/19	\$ 594,519	\$ 425,984	
	BARCLAYS PLC 4.950% 01/10/2047 DD 01/10/17	531,803	424,195	
	JPMORGAN CHASE & CO VAR RT 06/01/2025 DD 06/01/21	451,557	424,187	
	ATMOS ENERGY CORP 2.850% 02/15/2052 DD 10/01/21	645,821	424,060	
	ROGERS COMMUNICATIONS INC 4.350% 05/01/2049 DD 04/30/19	606,680	423,676	
	MORGAN STANLEY VAR RT 05/04/2027 DD 04/22/21	414,407	421,570	
	WELLS FARGO & CO 5.606% 01/15/2044 DD 11/26/13	494,139	419,580	
	PACIFIC GAS AND ELECTRIC CO 3.950% 12/01/2047 DD 11/29/17	639,773	419,522	
	PANAMA GOVERNMENT INTERNATIONA 4.500% 04/16/2050	630,752	418,547	
	DTE ELECTRIC CO 4.050% 05/15/2048 DD 05/07/18	581,680	417,985	
	CONSOLIDATED EDISON CO OF NEW 4.125% 05/15/2049 DD 05/09/19	568,753	417,710	
	MPLX LP 4.500% 04/15/2038 DD 02/08/18	487,138	417,517	
	MEMORIAL SLOAN-KETTERING CANCE 2.955% 01/01/2050 DD 06/16/20	625,000	417,450	
	DOW CHEMICAL CO/THE 4.800% 05/15/2049 DD 11/15/19	485,133	416,858	
	TIME WARNER CABLE LLC 7.300% 07/01/2038 DD 06/19/08	482,978	415,806	
	YARA INTERNATIONAL ASA 144A 7.378% 11/14/2032 DD 11/14/22	404,922	413,352	
	SAN DIEGO GAS & ELECTRIC CO 3.700% 03/15/2052 DD 03/11/22	510,243	412,303	
	HSBC HOLDINGS PLC 6.500% 05/02/2036 DD 05/03/06	556,754	409,848	
	ABBVIE INC 4.750% 03/15/2045 DD 09/15/20	530,542	406,917	
	NATIONWIDE MUTUAL INSURAN 144A 4.950% 04/22/2044 DD 04/22/14	533,495	406,648	
	TAKEDA PHARMACEUTICAL CO LTD 3.025% 07/09/2040 DD 07/09/20	557,601	405,994	
	GLENORE FINANCE CANADA L 144A 6.900% 11/15/2037 DD 11/20/07	431,486	405,800	
	MEAD JOHNSON NUTRITION CO 4.600% 06/01/2044 DD 05/13/14	491,031	405,255	
	CIGNA GROUP/THE 3.400% 03/15/2050 DD 03/16/20	407,416	403,563	
	DICK'S SPORTING GOODS INC 3.150% 01/15/2032 DD 01/14/22	491,040	403,456	
	UNITEDHEALTH GROUP INC 3.875% 08/15/2059 DD 07/25/19	507,453	402,975	
	INTERCONTINENTAL EXCHANGE INC 3.000% 09/15/2060 DD 08/20/20	636,413	401,550	

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	ARIZONA PUBLIC SERVICE CO 6.350% 12/15/2032 DD 11/08/22	\$ 387,372	\$ 400,946	
	SOUTHERN CALIFORNIA EDISON CO 5.625% 02/01/2036 DD 01/31/06	393,935	399,442	
	ZOETIS INC 4.450% 08/20/2048 DD 08/20/18	507,030	398,792	
	ENTERPRISE PRODUCTS OPERATING 7.550% 04/15/2038 DD 10/15/09	403,589	395,762	
	COMMONWEALTH EDISON CO 3.700% 03/01/2045 DD 03/02/15	566,274	395,304	
	EQUINOR ASA 4.250% 11/23/2041 DD 11/23/11	531,537	393,972	
	ANHEUSER-BUSCH INBEV WORLDWIDE 8.200% 01/15/2039 DD 01/15/11	403,430	393,114	
	DANAHER CORP 2.600% 10/01/2050 DD 10/06/20	540,234	392,572	
	AMGEN INC 4.875% 03/01/2053 DD 08/18/22	439,921	391,574	
	BOEING CO/THE 4.875% 05/01/2025 DD 05/04/20	434,441	391,366	
	FREEPORT-MCMORAN INC 5.000% 09/01/2027 DD 08/15/19	404,840	391,296	
	TRUIST FINANCIAL CORP VAR RT 10/28/2033 DD 10/28/22	376,755	390,672	
	PROVIDENCE ST JOSEPH HEALTH OB 3.930% 10/01/2048 DD 02/06/18	498,000	389,999	
	INTERNATIONAL BUSINESS MACHINE 4.000% 06/20/2042 DD 06/20/12	417,465	387,582	
	CNH INDUSTRIAL CAPITAL LLC 5.450% 10/14/2025 DD 10/14/22	382,494	386,182	
	BOEING CO/THE 3.825% 03/01/2059 DD 02/15/19	638,664	385,698	
	TRANSCONTINENTAL GAS PIPE LINE 7.850% 02/01/2026 DD 08/01/16	454,340	384,577	
	CHARTER COMMUNICATIONS OPERATI 3.500% 06/01/2041 DD 03/04/21	582,332	383,286	
	TRITON CONTAINER INTERNAT 144A 3.150% 06/15/2031 DD 06/07/21	421,871	382,675	
	ANHEUSER-BUSCH INBEV WORLDWIDE 4.950% 01/15/2042 DD 07/15/16	440,571	382,235	
	SHERWIN-WILLIAMS CO/THE 4.500% 06/01/2047 DD 05/16/17	485,205	381,339	
	AMERICAN WATER CAPITAL CORP 3.450% 05/01/2050 DD 04/14/20	544,175	380,822	
	NATIONWIDE MUTUAL INSURAN 144A 4.350% 04/30/2050 DD 04/30/20	494,961	379,866	
	SUNCOR ENERGY INC 7.150% 02/01/2032 DD 01/29/02	384,697	379,808	
	GENERAL MOTORS FINANCIAL CO IN 3.850% 01/05/2028 DD 01/05/18	436,648	379,352	
	FORTIVE CORP 4.300% 06/15/2046 DD 06/15/17	524,790	378,535	

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	SAN DIEGO GAS & ELECTRIC CO 4.100% 06/15/2049 DD 05/31/19	\$ 459,517	\$ 378,088	
	BARCLAYS PLC VAR RT 11/24/2042 DD 11/24/21	540,000	373,140	
	METLIFE INC VAR RT 12/15/2044 DD 09/15/14	437,481	372,653	
	COMCAST CORP 4.049% 11/01/2052 DD 10/19/17	483,854	372,115	
	BECTON DICKINSON & CO 4.669% 06/06/2047 DD 06/06/17	519,435	372,032	
	JOHNSON CONTROLS INTERNATIONAL STEP 07/02/2064 DD 07/02/2016	482,956	370,251	
	CHILE GOVERNMENT INTERNATIONAL 4.000% 01/31/2052	477,404	370,028	
	APPLE INC 2.700% 08/05/2051 DD 08/05/21	552,002	368,842	
	ONEOK INC 7.150% 01/15/2051 DD 05/07/20	342,731	367,733	
	BANK OF IRELAND GROUP PLC 144A VAR RT 09/16/2026 DD 09/16/22	370,000	367,033	
	QUANTA SERVICES INC 2.900% 10/01/2030 DD 09/22/20	443,500	367,005	
	KAISER FOUNDATION HOSPITALS 4.150% 05/01/2047 DD 05/03/17	535,260	366,945	
	AERCAP IRELAND CAPITAL DAC / A 3.850% 10/29/2041 DD 10/29/21	395,546	366,201	
	WILLIAMS COS INC/THE 2.600% 03/15/2031 DD 03/02/21	357,214	365,432	
	KRAFT HEINZ FOODS CO 6.500% 02/09/2040 DD 08/09/12	430,334	365,386	
	BAE SYSTEMS PLC 144A 3.000% 09/15/2050 DD 09/15/20	551,807	364,829	
	UNION PACIFIC CORP 3.799% 10/01/2051 DD 10/04/16	485,926	363,509	
	METLIFE INC 4.050% 03/01/2045 DD 03/05/15	460,050	361,286	
	AMERICA MOVIL SAB DE CV 4.700% 07/21/2032 DD 07/21/22	374,554	359,876	
	UNITEDHEALTH GROUP INC 4.250% 04/15/2047 DD 03/13/17	414,212	359,730	
	BANK OF AMERICA NA 6.000% 10/15/2036 DD 10/26/06	337,134	359,594	
	GLOBAL PAYMENTS INC 5.300% 08/15/2029 DD 08/22/22	369,324	358,182	
	QUALCOMM INC 4.800% 05/20/2045 DD 05/20/15	483,000	357,795	
	EQUINOR ASA 3.700% 04/06/2050 DD 04/06/20	407,284	357,710	
	ERP OPERATING LP 4.500% 07/01/2044 DD 06/19/14	418,677	356,807	
	CONSOLIDATED EDISON CO OF NEW 6.150% 11/15/2052 DD 11/14/22	327,987	355,641	

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Corporate Obligations (Continued)				
	AVALONBAY COMMUNITIES INC 5.000% 02/15/2033 DD 12/07/22	\$ 360,035	\$ 355,475	
	RAYTHEON TECHNOLOGIES CORP 7.500% 09/15/2029 DD 09/17/99	380,898	355,361	
	NIKE INC 3.250% 03/27/2040 DD 03/27/20	415,883	354,438	
	ENTERGY LOUISIANA LLC 4.200% 04/01/2050 DD 03/12/19	423,981	350,136	
	CHARTER COMMUNICATIONS OPERATI 3.500% 03/01/2042 DD 10/12/21	535,966	350,087	
	NUCOR CORP 3.850% 04/01/2052 DD 03/11/22	455,699	349,839	
	NATIONWIDE FINANCIAL SERV 144A 5.300% 11/18/2044 DD 11/20/14	444,660	349,060	
	ANHEUSER-BUSCH INBEV WORLDWIDE 4.350% 06/01/2040 DD 04/03/20	381,978	348,785	
	AT&T INC 4.500% 03/09/2048 DD 09/07/16	383,410	347,387	
	TIME WARNER CABLE LLC 5.500% 09/01/2041 DD 09/12/11	426,315	343,946	
	NEW YORK LIFE INSURANCE C 144A 3.750% 05/15/2050 DD 04/14/20	443,275	343,692	
	NATIONAL RURAL UTILITIES COOPE 8.000% 03/01/2032 DD 03/07/02	369,533	343,235	
	CONSUMERS ENERGY CO 2.500% 05/01/2060 DD 05/13/20	371,988	342,150	
	BANCO SANTANDER SA VAR RT 09/14/2027 DD 09/14/21	363,076	342,108	
	BURLINGTON NORTHERN SANTA FE L 5.050% 03/01/2041 DD 09/10/10	382,477	341,405	
	BRISTOL-MYERS SQUIBB CO 4.550% 02/20/2048 DD 02/20/20	440,570	341,279	
	GLOBAL PAYMENTS INC 4.800% 04/01/2026 DD 03/17/16	350,259	341,205	
	ENEL FINANCE AMERICA LLC 144A 2.875% 07/12/2041 DD 07/12/21	558,045	340,910	
	EVERNORTH HEALTH INC 4.500% 02/25/2026 DD 02/25/16	390,205	340,384	
	PARKER-HANNIFIN CORP 4.000% 06/14/2049 DD 06/14/19	423,567	340,216	
	PANAMA GOVERNMENT INTERNATIONAL 6.400% 02/14/2035	331,469	339,777	
	MASSACHUSETTS ELECTRIC CO 144A 4.004% 08/15/2046 DD 08/05/16	465,000	338,808	
	BURLINGTON NORTHERN SANTA FE L 5.150% 09/01/2043 DD 08/22/13	362,264	338,759	
	SUTTER HEALTH 3.161% 08/15/2040 DD 10/29/20	450,000	338,315	
	PIEDMONT HEALTHCARE INC 2.864% 01/01/2052 DD 09/15/21	535,000	336,472	
	UNION PACIFIC CORP 3.839% 03/20/2060 DD 03/20/20	453,232	335,052	
	MARKEL CORP 5.000% 04/05/2046 DD 04/05/16	379,995	333,907	

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Corporate Obligations (Continued)				
	QUALCOMM INC 5.400% 05/20/2033 DD 11/09/22	\$ 324,997	\$ 333,363	
	NARRAGANSETT ELECTRIC CO/ 144A 3.919% 08/01/2028 DD 07/27/18	380,295	332,553	
	ECOLAB INC 2.700% 12/15/2051 DD 12/15/21	510,828	332,337	
	EMERSON ELECTRIC CO 2.750% 10/15/2050 DD 04/29/20	509,378	332,000	
	MITSUBISHI UFJ FINANCIAL GROUP 4.153% 03/07/2039 DD 03/07/19	390,000	330,938	
	XCEL ENERGY INC 4.800% 09/15/2041 DD 09/12/11	385,701	330,372	
	NATIONAL RURAL UTILITIES COOPE 2.750% 04/15/2032 DD 02/07/22	398,536	330,016	
	VIRGINIA ELECTRIC AND POWER CO 4.625% 05/15/2052 DD 05/31/22	369,799	329,978	
	NORFOLK SOUTHERN CORP 4.550% 06/01/2053 DD 06/13/22	374,944	328,504	
	OHIO EDISON CO 144A 5.500% 01/15/2033 DD 09/27/22	330,741	327,961	
	AMGEN INC 4.563% 06/15/2048 DD 12/15/16	405,877	326,260	
	T-MOBILE USA INC 3.600% 11/15/2060 DD 05/15/21	494,601	326,252	
	SOUTHERN CALIFORNIA GAS CO 6.350% 11/15/2052 DD 11/14/22	293,900	324,441	
	KEYBANK NA/CLEVELAND OH 5.850% 11/15/2027 DD 11/15/22	314,474	324,094	
	TOYOTA MOTOR CREDIT CORP 4.550% 09/20/2027 DD 09/20/22	326,336	323,661	
	CHILE GOVERNMENT INTERNATIONAL 4.000% 01/31/2052 DD 01/31/22	414,029	322,232	
	AUSTRALIA & NEW ZEALAND BANKIN 5.088% 12/08/2025 DD 12/08/22	320,000	321,325	
	NUTRIEN LTD 1.900% 05/13/2023 DD 05/13/20	321,883	321,282	
	JPMORGAN CHASE & CO VAR RT 11/08/2032 DD 11/08/21	405,000	321,238	
	LOCKHEED MARTIN CORP 5.900% 11/15/2063 DD 10/24/22	292,460	319,444	
	GEORGIA POWER CO 5.125% 05/15/2052 DD 05/04/22	341,229	317,495	
	WYETH LLC 6.500% 02/01/2034 DD 12/16/03	371,405	317,306	
	BANK OF AMERICA CORP 5.000% 01/21/2044 DD 01/21/14	377,228	315,210	
	MEDTRONIC INC 4.625% 03/15/2045 DD 03/15/15	317,071	313,979	
	WILLIAMS COS INC/THE 4.900% 01/15/2045 DD 06/27/14	396,619	313,946	
	XCEL ENERGY INC 3.500% 12/01/2049 DD 11/07/19	404,140	312,260	
	LG CORP	286,933	311,743	

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Corporate Obligations (Continued)				
	BANK OF AMERICA CORP VAR RT 06/19/2026 DD 06/19/20	\$ 304,794	\$ 311,307	
	STEEL DYNAMICS INC 3.250% 10/15/2050 DD 10/09/20	457,582	309,876	
	ROGERS COMMUNICATIONS INC 144A 4.500% 03/15/2042 DD 03/11/22	371,239	308,021	
	NEW YORK LIFE INSURANCE C 144A 4.450% 05/15/2069 DD 04/04/19	446,825	307,296	
	DUKE ENERGY INDIANA LLC 6.450% 04/01/2039 DD 03/23/09	319,551	307,244	
	PACIFIC LIFECORP 144A 5.400% 09/15/2052 DD 09/15/22	319,526	306,890	
	VIATRIS INC 4.000% 06/22/2050 DD 06/22/21	493,713	306,702	
	GLOBAL PAYMENTS INC 2.900% 11/15/2031 DD 11/22/21	327,597	305,089	
	BANK OF NEW YORK MELLON CORP/T VAR RT 06/13/2033 DD 06/13/22	297,505	305,013	
	TENNESSEE GAS PIPELINE CO LLC 7.000% 10/15/2028 DD 10/09/98	367,807	304,959	
	MARTIN MARIETTA MATERIALS INC 4.250% 12/15/2047 DD 12/20/17	374,801	304,714	
	GOODMAN US FINANCE FOUR L 144A 4.500% 10/15/2037 DD 09/27/17	361,421	304,420	
	ROGERS COMMUNICATIONS INC 144A 3.800% 03/15/2032 DD 03/11/22	301,753	303,293	
	PUGET SOUND ENERGY INC 3.250% 09/15/2049 DD 08/30/19	443,498	303,076	
	BANK OF AMERICA CORP VAR RT 10/24/2026 DD 10/21/20	294,637	302,410	
	APPLE INC 2.950% 09/11/2049 DD 09/11/19	402,318	302,039	
	NOVARTIS CAPITAL CORP 2.750% 08/14/2050 DD 02/14/20	420,162	300,940	
	CSX CORP 3.350% 09/15/2049 DD 09/12/19	410,198	300,896	
	BANK OF MONTREAL VAR RT 01/10/2037 DD 01/10/22	377,373	299,679	
	GEORGE WASHINGTON UNIVERSITY/T 4.868% 09/15/2045 DD 07/01/15	401,449	297,999	
	JPMORGAN CHASE & CO VAR RT 11/15/2048 DD 11/10/17	298,817	297,084	
	EVERGY METRO INC 4.200% 03/15/2048 DD 03/01/18	361,685	295,580	
	JPMORGAN CHASE & CO VAR RT 04/22/2042 DD 04/22/21	404,816	295,326	
	ANALOG DEVICES INC 2.800% 10/01/2041 DD 10/05/21	396,908	294,960	
	MASSACHUSETTS INSTITUTE OF TEC 2.989% 07/01/2050 DD 12/20/19	400,093	293,256	
	BANK OF AMERICA CORP VAR RT 03/11/2027 DD 03/11/21	293,588	292,067	
	T-MOBILE USA INC 3.300% 02/15/2051 DD 02/15/21	434,100	290,471	

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Corporate Obligations (Continued)				
	JPMORGAN CHASE & CO VAR RT 09/14/2033 DD 09/14/22	\$ 295,735	\$ 290,085	
	W R BERKLEY CORP 6.250% 02/15/2037 DD 02/14/07	255,324	289,817	
	GILEAD SCIENCES INC 4.750% 03/01/2046 DD 09/14/15	291,533	289,046	
	PFIZER INC 3.900% 03/15/2039 DD 03/11/19	360,831	288,314	
	JOHNSON CONTROLS INTERNATIONAL VAR RT 07/02/2044 DD 07/02/16	363,602	286,546	
	SOUTHERN CALIFORNIA GAS CO 4.125% 06/01/2048 DD 05/15/18	419,811	286,226	
	MORGAN STANLEY VAR RT 01/25/2052 DD 01/25/21	410,451	285,444	
	VOLKSWAGEN AG CIGNA GROUP/THE 3.875% 10/15/2047 DD 04/15/20	371,675	285,401	
	GOLDMAN SACHS GROUP INC/THE 5.150% 05/22/2045 DD 05/22/15	352,178	285,036	
	SOUTHERN CALIFORNIA EDISON CO 3.450% 02/01/2052 DD 01/13/22	312,963	284,647	
	MYMICHIGAN HEALTH 3.409% 06/01/2050 DD 10/28/20	354,193	283,993	
	ASTRAZENECA PLC 3.000% 05/28/2051 DD 05/28/21	410,000	283,331	
	BHP BILLITON FINANCE USA LTD 5.000% 09/30/2043 DD 09/30/13	394,536	282,940	
	COMCAST CORP 4.200% 08/15/2034 DD 08/12/14	381,479	282,808	
	MITSUBISHI UFJ FINANCIAL GROUP VAR RT 07/20/2027 DD 07/20/21	307,809	282,640	
	ANGLO AMERICAN CAPITAL PL 144A 2.625% 09/10/2030 DD 09/10/20	311,826	282,110	
	PPL ELECTRIC UTILITIES CORP 3.000% 10/01/2049 DD 09/06/19	283,442	281,130	
	NORTHERN NATURAL GAS CO 144A 4.300% 01/15/2049 DD 07/17/18	447,388	280,686	
	WW GRAINGER INC 4.600% 06/15/2045 DD 06/11/15	281,141	280,217	
	NORTHERN STATES POWER CO/MN 3.600% 09/15/2047 DD 09/13/17	287,301	279,267	
	BAT INTERNATIONAL FINANCE PLC 4.448% 03/16/2028 DD 03/16/22	390,358	279,198	
	COMCAST CORP 3.750% 04/01/2040 DD 03/27/20	300,000	278,709	
	DUKE ENERGY CORP 3.500% 06/15/2051 DD 06/10/21	385,689	277,883	
	WELLS FARGO & CO 4.400% 06/14/2046 DD 06/14/16	341,529	277,452	
	DTE ELECTRIC CO 3.650% 03/01/2052 DD 02/24/22	327,874	277,339	
	AMEREN CORP 2.500% 09/15/2024 DD 09/16/19	348,588	276,740	
		302,859	276,544	

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Corporate Obligations (Continued)				
		BANK OF AMERICA CORP VAR RT 10/20/2032 DD 10/20/21	\$ 350,000	\$ 275,114
		BANK OF AMERICA CORP 7.750% 05/14/2038 DD 05/14/08	362,354	274,414
		CONOCOPHILLIPS CO 4.300% 11/15/2044 DD 11/12/14	313,261	274,160
		JOHNSON & JOHNSON 3.400% 01/15/2038 DD 11/10/17	275,203	273,843
		BRISTOL-MYERS SQUIBB CO 2.350% 11/13/2040 DD 11/13/20	393,085	273,447
		HESS CORP 5.600% 02/15/2041 DD 08/10/10	312,158	273,279
		ELEVANCE HEALTH INC 5.350% 10/15/2025 DD 11/04/22	269,930	273,224
		ALABAMA POWER CO 6.000% 03/01/2039 DD 03/06/09	285,267	272,675
		GLOBAL PAYMENTS INC 5.400% 08/15/2032 DD 08/22/22	284,524	272,443
		MIDAMERICAN ENERGY CO 4.400% 10/15/2044 DD 04/03/14	303,167	271,020
		UNION ELECTRIC CO 3.900% 04/01/2052 DD 04/01/22	334,176	270,958
		DOW CHEMICAL CO/THE 4.375% 11/15/2042 DD 11/14/12	392,750	270,673
		INTERCONTINENTAL EXCHANGE INC 2.650% 09/15/2040 DD 08/20/20	383,412	269,461
		BERKSHIRE HATHAWAY FINANCE COR 2.850% 10/15/2050 DD 10/15/20	399,680	269,220
		ENERGY TRANSFER LP 6.500% 02/01/2042 DD 01/17/12	326,487	268,978
		LOWE'S COS INC 4.250% 04/01/2052 DD 03/24/22	334,772	267,749
		HASBRO INC 3.900% 11/19/2029 DD 11/19/19	337,296	267,318
		DOLLAR GENERAL CORP 4.250% 09/20/2024 DD 09/20/22	269,749	266,355
		LOWE'S COS INC 4.450% 04/01/2062 DD 03/24/22	334,749	262,590
		KRAFT HEINZ FOODS CO 4.875% 10/01/2049 DD 10/01/20	278,533	261,234
		HESS CORP 6.000% 01/15/2040 DD 12/14/09	249,011	261,221
		CONSTELLATION BRANDS INC 3.750% 05/01/2050 DD 04/27/20	330,268	261,193
		CITIGROUP INC 6.125% 08/25/2036 DD 08/25/06	259,598	260,557
		BOEING CO/THE 3.900% 05/01/2049 DD 05/02/19	342,031	260,367
		APPLE INC 4.100% 08/08/2062 DD 08/08/22	308,909	259,690
		COREBRIDGE FINANCIAL INC 144A 4.400% 04/05/2052 DD 04/05/22	324,945	259,565

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(a)	(b)	(c)	(d)	(e)
	Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
	Corporate Obligations (Continued)			
	CITIGROUP INC VAR RT 01/10/2028 DD 01/10/17		\$ 277,000	\$ 259,311
	ENERGY TRANSFER LP 5.750% 02/15/2033 DD 12/14/22		264,711	259,265
	WILLIS NORTH AMERICA INC 5.050% 09/15/2048 DD 09/10/18		337,990	258,443
	ALEXANDRIA REAL ESTATE EQUITIE 1.875% 02/01/2033 DD 08/05/20		344,351	257,601
	BRIGHTHOUSE FINANCIAL INC 3.850% 12/22/2051 DD 11/22/21		409,697	257,226
	HCA INC 5.875% 02/15/2026 DD 11/13/15		252,810	256,892
	TRUSTEES OF BOSTON COLLEGE 3.129% 07/01/2052 DD 10/24/19		366,000	255,750
	HCA INC 5.875% 02/01/2029 DD 01/30/19		258,714	255,199
	BERKSHIRE HATHAWAY ENERGY CO 3.800% 07/15/2048 DD 01/05/18		327,284	254,912
	SOUTHERN CALIFORNIA EDISON CO 6.050% 03/15/2039 DD 03/20/09		279,285	254,820
	PACIFIC GAS AND ELECTRIC CO 5.900% 06/15/2032 DD 06/08/22		259,217	254,756
	PUGET SOUND ENERGY INC 4.300% 05/20/2045 DD 05/26/15		409,639	254,413
	SHELL INTERNATIONAL FINANCE BV 3.750% 09/12/2046 DD 09/12/16		350,192	254,179
	VICI PROPERTIES LP / VICI 144A 5.625% 05/01/2024 DD 11/01/21		258,119	253,154
	OGLETHORPE POWER CORP 3.750% 08/01/2050 DD 02/01/21		323,111	252,900
	WELLS FARGO & CO 5.375% 11/02/2043 DD 10/28/13		265,899	252,507
	OVINTIV INC 6.625% 08/15/2037 DD 08/13/07		296,010	252,415
	HOME DEPOT INC/THE 3.125% 12/15/2049 DD 01/13/20		376,673	251,240
	AMERICAN WATER CAPITAL CORP 3.250% 06/01/2051 DD 05/14/21		348,996	250,814
	SOUTHERN CALIFORNIA EDISON CO 5.450% 06/01/2052 DD 05/23/22		258,398	250,068
	PANASONIC HOLDINGS CORP 144A 2.679% 07/19/2024 DD 07/19/19		272,621	249,031
	VERIZON COMMUNICATIONS INC 4.125% 08/15/2046 DD 08/01/16		291,952	247,823
	PACIFIC LIFE GLOBAL FUNDI 144A 1.600% 09/21/2028 DD 09/21/21		304,478	247,196
	EAST OHIO GAS CO/THE 144A 3.000% 06/15/2050 DD 06/16/20		379,518	245,645
	KIMCO REALTY OP LLC 4.450% 09/01/2047 DD 08/10/17		312,666	244,260
	AIA GROUP LTD 144A 3.200% 09/16/2040 DD 09/16/20		339,453	244,123
	ONCOR ELECTRIC DELIVERY CO LLC 5.350% 10/01/2052 DD 04/01/21		390,190	243,826

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	ABBOTT LABORATORIES 4.900% 11/30/2046 DD 11/22/16	\$ 248,860	\$ 243,735	
	CHILE GOVERNMENT INTERNATIONAL 3.500% 01/31/2034	270,748	242,539	
	DEUTSCHE BANK AG/NEW YORK NY VAR RT 04/01/2025 DD 04/01/21	260,000	241,556	
	CITIGROUP INC 6.625% 01/15/2028 DD 01/09/98	263,943	240,899	
	EMERSON ELECTRIC CO 2.800% 12/21/2051 DD 12/21/21	369,179	239,989	
	DUKE ENERGY PROGRESS LLC 6.300% 04/01/2038 DD 03/13/08	231,585	238,616	
	PANAMA GOVERNMENT INTERNATIONA 6.400% 02/14/2035 DD 11/21/22	249,359	238,351	
	TARGA RESOURCES CORP 4.200% 02/01/2033 DD 04/06/22	258,779	237,482	
	ALABAMA POWER CO 3.000% 03/15/2052 DD 11/18/21	327,355	237,342	
	NEVADA POWER CO 6.750% 07/01/2037 DD 06/28/07	242,800	237,055	
	HALLIBURTON CO 4.750% 08/01/2043 DD 08/05/13	257,329	236,024	
	BANK OF NEW YORK MELLON CORP/T VAR RT 06/13/2028 DD 06/13/22	245,000	234,521	
	INTEL CORP 4.150% 08/05/2032 DD 08/05/22	249,595	234,490	
	NATIONAL RURAL UTILITIES COOPE 1.350% 03/15/2031 DD 10/08/20	232,353	233,560	
	SOUTHERN CALIFORNIA EDISON CO 5.350% 07/15/2035 DD 06/27/05	222,499	233,129	
	MASTERCARD INC 3.850% 03/26/2050 DD 03/26/20	268,979	232,323	
	PANAMA GOVERNMENT INTERNATIONA 4.500% 01/19/2063 DD 01/19/22	327,938	232,320	
	SUNCOR ENERGY INC 6.800% 05/15/2038 DD 05/15/08	285,547	231,933	
	DUKE ENERGY CORP 3.750% 09/01/2046 DD 08/12/16	261,521	231,539	
	CIGNA GROUP/THE 6.125% 11/15/2041 DD 05/15/20	288,662	231,128	
	MITSUBISHI UFJ FINANCIAL GROUP VAR RT 10/13/2032 DD 10/13/21	223,528	230,646	
	COMCAST CORP 5.350% 11/15/2027 DD 11/07/22	224,899	230,126	
	PORSCHE AUTOMOBIL HOLDING SE PINNACLE WEST CAPITAL CORP 1.300% 06/15/2025 DD 06/17/20	276,228	228,970	
	W R BERKLEY CORP 4.750% 08/01/2044 DD 08/06/14	252,757	227,763	
	AMERICAN HOMES 4 RENT LP 3.375% 07/15/2051 DD 07/08/21	326,927	227,349	
	OTIS WORLDWIDE CORP 3.362% 02/15/2050 DD 08/15/20	352,663	225,738	
		322,199	225,635	

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	DTE ENERGY CO STEP 10/01/2024 DD 07/01/2019	\$ 245,984	\$ 224,735	
	GENUINE PARTS CO 1.750% 02/01/2025 DD 01/10/22	239,330	224,237	
	CANADIAN NATURAL RESOURCES LTD 6.250% 03/15/2038 DD 03/19/07	266,744	223,720	
	OVINTIV INC 6.500% 02/01/2038 DD 12/04/07	286,838	223,037	
	ASTRAZENECA PLC 4.375% 08/17/2048 DD 08/17/18	255,105	222,795	
	PAYPAL HOLDINGS INC 3.250% 06/01/2050 DD 05/18/20	232,352	222,508	
	CREDIT SUISSE GROUP AG 144A VAR RT 05/14/2032 DD 05/14/21	320,000	222,077	
	HSBC HOLDINGS PLC 6.800% 06/01/2038 DD 05/27/08	268,904	221,921	
	KINDER MORGAN ENERGY PARTNERS 6.500% 02/01/2037 DD 01/30/07	248,214	218,542	
	BANK OF NEW YORK MELLON CORP/T VAR RT 10/25/2033 DD 10/25/22	210,000	218,423	
	NSTAR ELECTRIC CO 4.950% 09/15/2052 DD 09/15/22	221,609	216,531	
	AERCAP IRELAND CAPITAL DAC / A 1.150% 10/29/2023 DD 10/29/21	225,000	216,482	
	UNITEDHEALTH GROUP INC 4.950% 05/15/2062 DD 05/20/22	227,746	216,205	
	CITIGROUP INC VAR RT 05/01/2025 DD 05/04/21	230,000	215,280	
	VERIZON COMMUNICATIONS INC 3.400% 03/22/2041 DD 03/22/21	284,835	215,223	
	INTERNATIONAL BUSINESS MACHINE 2.850% 05/15/2040 DD 05/07/20	298,043	214,875	
	AGREE LP 4.800% 10/01/2032 DD 08/22/22	228,093	213,516	
	CANADIAN NATIONAL RAILWAY CO 3.650% 02/03/2048 DD 02/06/18	300,605	212,896	
	ASSURANT INC 3.700% 02/22/2030 DD 08/22/19	269,735	212,220	
	STATE STREET CORP VAR RT 11/04/2028 DD 11/04/22	205,000	212,029	
	BANK OF AMERICA CORP VAR RT 07/23/2031 DD 07/23/20	223,157	211,717	
	DUKE ENERGY FLORIDA PROJECT FI 2.538% 09/01/2031 DD 06/22/16	209,343	211,099	
	AMERICAN WATER CAPITAL CORP 4.200% 09/01/2048 DD 08/09/18	252,177	209,910	
	CVS HEALTH CORP 1.750% 08/21/2030 DD 08/21/20	212,037	209,512	
	AMGEN INC 4.400% 02/22/2062 DD 02/22/22	258,398	208,601	
	PUBLIC SERVICE CO OF COLORADO 3.600% 09/15/2042 DD 09/11/12	281,039	206,708	
	QATAR GOVERNMENT INTERNAT 144A 5.103% 04/23/2048	280,208	205,847	

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Corporate Obligations (Continued)				
	VALE OVERSEAS LTD	3.750% 07/08/2030 DD 07/08/20	\$ 224,841	\$ 205,670
	OHIOHEALTH CORP	2.297% 11/15/2031 DD 10/26/21	255,000	204,844
	PUBLIC SERVICE CO OF NEW HAMPS	3.600% 07/01/2049 DD 06/28/19	231,166	204,527
	KROGER CO/THE	4.450% 02/01/2047 DD 01/24/17	207,955	202,932
	BOEING CO/THE	5.875% 02/15/2040 DD 07/28/09	207,274	202,797
	MCDONALD'S CORP	4.700% 12/09/2035 DD 12/09/15	210,323	202,602
	ALCON FINANCE CORP 144A	5.750% 12/06/2052 DD 12/06/22	199,348	201,794
	BANK OF AMERICA CORP VAR RT	07/21/2032 DD 07/21/21	254,275	200,959
	GE HEALTHCARE TECHNOLOGIE 144A	5.550% 11/15/2024 DD 11/22/22	199,726	200,818
	LELAND STANFORD JUNIOR UNIVERS	2.413% 06/01/2050 DD 06/04/20	315,000	200,201
	GENERAL MOTORS CO	5.150% 04/01/2038 DD 08/07/17	211,917	199,300
	UNITEDHEALTH GROUP INC	4.375% 03/15/2042 DD 03/08/12	220,631	198,781
	EVERGY KANSAS CENTRAL INC	3.250% 09/01/2049 DD 08/19/19	297,469	198,542
	HOME DEPOT INC/THE	2.375% 03/15/2051 DD 01/07/21	325,565	198,393
	JOHNSON & JOHNSON	2.100% 09/01/2040 DD 08/25/20	283,105	197,494
	PROTECTIVE LIFE GLOBAL FU 144A	1.900% 07/06/2028 DD 07/06/21	235,000	195,191
	CONSOLIDATED EDISON CO OF NEW	3.875% 06/15/2047 DD 06/08/17	295,853	194,065
	CONSUMERS ENERGY CO	4.200% 09/01/2052 DD 08/11/22	196,625	193,064
	SHELL INTERNATIONAL FINANCE BV	4.000% 05/10/2046 DD 05/10/16	222,996	192,888
	HUMANA INC	4.950% 10/01/2044 DD 09/19/14	238,166	190,842
	BOEING CO/THE	3.750% 02/01/2050 DD 07/31/19	265,908	190,256
	BARCLAYS PLC VAR RT	08/09/2033 DD 08/09/22	200,000	189,552
	ENTERGY ARKANSAS LLC	3.350% 06/15/2052 DD 03/30/21	268,321	189,122
	MITSUBISHI UFJ FINANCIAL GROUP VAR RT	09/15/2024 DD 09/15/20	196,095	188,235
	ENTERGY LOUISIANA LLC	4.000% 03/15/2033 DD 03/23/18	206,677	187,588
	AMERICAN TOWER CORP	2.300% 09/15/2031 DD 09/27/21	194,796	187,238

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Corporate Obligations (Continued)				
	QUALCOMM INC 6.000% 05/20/2053 DD 11/09/22	\$ 188,127	\$ 187,094	
	CAMERON LNG LLC 144A 3.701% 01/15/2039 DD 12/13/19	235,000	186,943	
	MORGAN STANLEY VAR RT 07/20/2027 DD 07/20/21	180,866	186,809	
	FLORIDA POWER & LIGHT CO 3.700% 12/01/2047 DD 11/16/17	210,928	185,884	
	SOUTHWESTERN PUBLIC SERVICE CO 3.150% 05/01/2050 DD 05/18/20	258,953	180,916	
	SIMON PROPERTY GROUP LP 2.450% 09/13/2029 DD 09/13/19	172,585	179,805	
	COCA-COLA CO/THE 3.000% 03/05/2051 DD 03/05/21	220,727	179,788	
	KOREA DEVELOPMENT BANK/THE 4.000% 09/08/2025 DD 09/08/22	184,700	179,663	
	PARAMOUNT GLOBAL 4.850% 07/01/2042 DD 06/20/12	235,942	178,721	
	ITC HOLDINGS CORP 3.650% 06/15/2024 DD 06/04/14	195,813	178,588	
	WELLS FARGO & CO VAR RT 02/11/2031 DD 02/11/20	215,067	178,545	
	MASTERCARD INC 2.950% 03/15/2051 DD 03/04/21	247,633	178,458	
	SOUTHERN CO/THE 4.250% 07/01/2036 DD 05/24/16	202,145	178,287	
	CSL FINANCE PLC 144A 3.850% 04/27/2027 DD 04/27/22	184,817	177,234	
	US BANCORP VAR RT 10/21/2033 DD 10/21/22	170,000	177,082	
	ONCOR ELECTRIC DELIVERY CO LLC 2.700% 11/15/2051 DD 11/16/21	253,434	176,645	
	ALEXANDRIA REAL ESTATE EQUITIE 4.850% 04/15/2049 DD 03/21/19	206,894	176,492	
	CONSTELLATION ENERGY GENERATIO 5.750% 10/01/2041 DD 09/30/10	181,692	175,601	
	FREEPORT INDONESIA PT 144A 6.200% 04/14/2052 DD 04/14/22	200,000	174,602	
	GENERAL MOTORS CO 5.950% 04/01/2049 DD 09/10/18	197,933	173,581	
	TOTALENERGIES CAPITAL INTERNAT 3.461% 07/12/2049 DD 07/10/19	230,000	172,808	
	BANK OF AMERICA CORP VAR RT 01/20/2028 DD 01/20/17	171,277	172,807	
	WELLTOWER OP LLC 4.950% 09/01/2048 DD 08/16/18	206,129	171,429	
	CHARTER COMMUNICATIONS OPERATI 3.900% 06/01/2052 DD 03/04/21	185,526	170,429	
	WELLTOWER OP LLC 3.850% 06/15/2032 DD 03/31/22	199,896	170,306	
	BAYLOR SCOTT & WHITE HOLDINGS 2.839% 11/15/2050 DD 01/21/21	255,000	167,596	

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Corporate Obligations (Continued)				
	KRAFT HEINZ FOODS CO 5.200% 07/15/2045 DD 07/15/16	\$ 176,824	\$ 166,837	
	SOUTHERN CALIFORNIA GAS CO 3.200% 06/15/2025 DD 06/18/15	182,943	166,088	
	KOREA DEVELOPMENT BANK/THE 4.250% 09/08/2032 DD 09/08/22	174,675	165,988	
	BROADCOM INC 144A 4.926% 05/15/2037 DD 04/18/22	176,683	165,326	
	GILEAD SCIENCES INC 2.800% 10/01/2050 DD 09/30/20	253,511	164,470	
	CORPORATE OFFICE PROPERTIES LP 2.900% 12/01/2033 DD 11/17/21	228,910	163,783	
	ENTERPRISE PRODUCTS OPERATING 4.950% 10/15/2054 DD 10/14/14	211,843	163,482	
	DEUTSCHE BANK AG/NEW YORK NY VAR RT 11/24/2026 DD 11/24/20	165,732	163,361	
	GOLDMAN SACHS GROUP INC/THE VAR RT 01/24/2025 DD 01/24/22	160,956	162,726	
	XCEL ENERGY INC 2.600% 12/01/2029 DD 11/07/19	163,140	162,667	
	UNITEDHEALTH GROUP INC 4.750% 05/15/2052 DD 05/20/22	173,425	162,453	
	MIZUHO FINANCIAL GROUP INC 3.663% 02/28/2027 DD 02/28/17	192,953	162,409	
	DTE ENERGY CO STEP 11/01/2024 DD 08/01/2022	165,012	162,256	
	CARGILL INC 144A 4.375% 04/22/2052 DD 04/22/22	184,203	161,601	
	DIGITAL REALTY TRUST LP 3.600% 07/01/2029 DD 06/14/19	197,739	161,172	
	CHILE GOVERNMENT INTERNATIONAL 3.500% 04/15/2053	195,344	159,583	
	CREDIT SUISSE GROUP AG 144A VAR RT 11/15/2033 DD 11/14/22	155,000	159,170	
	DENTSPLY SIRONA INC 3.250% 06/01/2030 DD 05/26/20	208,566	158,188	
	INTEL CORP 2.800% 08/12/2041 DD 08/12/21	226,469	157,766	
	CIGNA GROUP/THE 4.800% 07/15/2046 DD 01/15/20	193,552	157,101	
	EXTRA SPACE STORAGE LP 2.550% 06/01/2031 DD 05/11/21	199,698	156,972	
	ENERGY TRANSFER LP 6.125% 12/15/2045 DD 06/23/15	185,873	156,379	
	MCDONALD'S CORP 4.450% 09/01/2048 DD 08/15/18	214,429	153,347	
	DOMINION ENERGY INC 4.600% 03/15/2049 DD 03/13/19	211,848	152,449	
	CONAGRA BRANDS INC 5.300% 11/01/2038 DD 10/22/18	176,271	152,426	
	MCDONALD'S CORP 3.625% 05/01/2043 DD 05/06/13	192,270	151,412	

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Corporate Obligations (Continued)				
	PRUDENTIAL FINANCIAL INC VAR RT 09/01/2052 DD 08/17/22	\$ 155,000	\$ 150,348	
	ROYALTY PHARMA PLC 3.300% 09/02/2040 DD 03/02/21	186,785	150,092	
	*COCA-COLA FEMSA SAB DE CV 2.750% 01/22/2030 DD 01/22/20	172,211	149,858	
	NIKE INC 3.375% 11/01/2046 DD 10/21/16	204,295	148,424	
	HYUNDAI MOTOR CO JOHNSON & JOHNSON 3.625% 03/03/2037 DD 03/03/17	152,266	147,741	
	COMCAST CORP 3.250% 11/01/2039 DD 11/05/19	152,736	146,279	
	HOME DEPOT INC/THE 4.950% 09/15/2052 DD 09/19/22	134,935	144,879	
	S&P GLOBAL INC 144A 3.900% 03/01/2062 DD 03/18/22	147,971	144,681	
	AMERICAN TOWER CORP 1.875% 10/15/2030 DD 09/28/20	181,690	144,374	
	BAYLOR SCOTT & WHITE HOLDINGS 4.185% 11/15/2045 DD 04/22/15	147,837	143,184	
	GENERAL MOTORS FINANCIAL CO IN 6.050% 10/10/2025 DD 10/12/22	191,393	142,533	
	AMEREN ILLINOIS CO 5.900% 12/01/2052 DD 11/22/22	139,815	142,316	
	NATIONAL RETAIL PROPERTIES INC 3.500% 04/15/2051 DD 03/10/21	129,598	142,198	
	CONSOLIDATED EDISON CO OF NEW 4.500% 05/15/2058 DD 05/10/18	205,096	140,665	
	SOUTHERN CO GAS CAPITAL CORP 3.950% 10/01/2046 DD 09/13/16	142,548	138,288	
	APTIV PLC / APTIV CORP 2.396% 02/18/2025 DD 02/18/22	182,676	138,084	
	CROWN CASTLE INC 4.150% 07/01/2050 DD 04/03/20	145,000	136,829	
	EXELON CORP 4.450% 04/15/2046 DD 04/07/16	147,200	136,628	
	WILLIAMS COS INC/THE 5.800% 11/15/2043 DD 11/15/13	153,199	136,083	
	INTEL CORP 3.050% 08/12/2051 DD 08/12/21	158,007	133,871	
	COX COMMUNICATIONS INC 144A 4.800% 02/01/2035 DD 12/08/14	206,762	133,838	
	MIZUHO FINANCIAL GROUP INC 2.564% 09/13/2031 DD 09/13/21	161,364	129,947	
	FOMENTO ECONOMICO MEXICANO SAB 2.875% 05/10/2023 DD 05/10/13	170,000	129,912	
	PANAMA GOVERNMENT INTERNATIONA 3.870% 07/23/2060 DD 07/23/19	128,639	128,638	
	BERKSHIRE HATHAWAY FINANCE COR 4.250% 01/15/2049 DD 01/11/19	199,878	128,224	
	GOLDMAN SACHS GROUP INC/THE VAR RT 09/10/2027 DD 06/10/21	132,679	125,665	
		122,029	125,244	

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	BANK OF AMERICA CORP VAR RT 03/05/2029 DD 03/05/18	\$ 125,730	\$ 124,781	
	BAE SYSTEMS FINANCE INC 144A 7.500% 07/01/2027 DD 07/02/97	123,955	124,430	
	MID-ATLANTIC INTERSTATE T 144A 4.100% 05/15/2028 DD 05/10/18	142,425	122,594	
	PEACEHEALTH OBLIGATED GROUP 1.375% 11/15/2025 DD 10/08/20	123,875	121,107	
	QUALCOMM INC 4.300% 05/20/2047 DD 05/26/17	161,296	120,316	
	BANK OF NEW YORK MELLON CORP/T VAR RT 10/25/2028 DD 10/25/22	115,000	118,732	
	ELEVANCE HEALTH INC 6.100% 10/15/2052 DD 11/04/22	109,990	118,163	
	NATIONAL RURAL UTILITIES COOPE 1.650% 06/15/2031 DD 02/08/21	117,081	118,132	
	UNION PACIFIC CORP 4.100% 09/15/2067 DD 09/19/17	119,939	117,818	
	ORACLE CORP 4.000% 07/15/2046 DD 07/07/16	144,000	117,480	
	CSX CORP 3.800% 04/15/2050 DD 03/30/20	149,304	117,228	
	ENTERPRISE PRODUCTS OPERATING 4.250% 02/15/2048 DD 02/15/18	159,730	116,531	
	CIGNA GROUP/THE 4.800% 08/15/2038 DD 08/15/19	139,879	116,371	
	SOUTHWESTERN PUBLIC SERVICE CO 3.750% 06/15/2049 DD 06/18/19	148,109	115,650	
	SHELL INTERNATIONAL FINANCE BV 3.250% 04/06/2050 DD 04/06/20	162,329	115,624	
	BEST BUY CO INC 1.950% 10/01/2030 DD 10/01/20	143,966	114,966	
	VIRGINIA ELECTRIC AND POWER CO 3.750% 05/15/2027 DD 05/31/22	113,081	114,574	
	COREBRIDGE FINANCIAL INC 144A 3.900% 04/05/2032 DD 04/05/22	129,808	114,421	
	RAYTHEON TECHNOLOGIES CORP 4.625% 11/16/2048 DD 08/16/18	170,674	113,474	
	ZOETIS INC 3.950% 09/12/2047 DD 09/12/17	126,761	112,940	
	ATMOS ENERGY CORP 4.300% 10/01/2048 DD 10/04/18	131,339	111,778	
	KOREA DEVELOPMENT BANK/THE 2.000% 10/25/2031 DD 10/25/21	139,345	111,464	
	JDE PEET'S NV 144A 0.800% 09/24/2024 DD 09/24/21	119,741	109,652	
	BARCLAYS PLC VAR RT 06/24/2031 DD 06/24/20	114,891	109,553	
	TOTALENERGIES CAPITAL INTERNAT 2.986% 06/29/2041 DD 06/29/20	133,424	108,856	
	VIRGINIA ELECTRIC AND POWER CO 3.800% 04/01/2028 DD 03/22/18	108,902	108,563	
	WILLIAMS COS INC/THE 5.300% 08/15/2052 DD 08/08/22	119,945	108,006	

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	DOW CHEMICAL CO/THE 4.250% 10/01/2034 DD 09/16/14	\$ 113,258	\$ 105,302	
	CSL FINANCE PLC 144A 4.625% 04/27/2042 DD 04/27/22	112,592	103,934	
	AMERICA MOVIL SAB DE CV 6.125% 03/30/2040 DD 03/30/10	111,298	103,684	
	HUNTINGTON BANCSHARES INC/OH 2.550% 02/04/2030 DD 02/04/20	105,551	103,114	
	RAYTHEON TECHNOLOGIES CORP 5.400% 05/01/2035 DD 04/29/05	101,642	100,305	
	UNUM GROUP 4.125% 06/15/2051 DD 06/14/21	143,575	99,741	
	DAIMLER TRUCK FINANCE NOR 144A 2.375% 12/14/2028 DD 12/14/21	114,647	96,829	
	TIME WARNER CABLE ENTERPRISES 8.375% 03/15/2023 DD 09/15/93	109,797	95,594	
	INTERCONTINENTAL EXCHANGE INC 5.200% 06/15/2062 DD 05/23/22	103,115	95,359	
	CANADIAN PACIFIC RAILWAY CO 3.100% 12/02/2051 DD 12/02/21	138,998	94,730	
	MASSACHUSETTS MUTUAL LIFE 144A 3.375% 04/15/2050 DD 04/16/20	134,444	94,046	
	AMERICAN INTERNATIONAL GROUP I 4.800% 07/10/2045 DD 07/10/15	130,729	93,939	
	PHILLIPS EDISON GROCERY CENTER 2.625% 11/15/2031 DD 10/06/21	123,365	91,785	
	EQUINOR ASA 3.250% 11/18/2049 DD 11/18/19	130,891	91,576	
	ALTRIA GROUP INC 3.700% 02/04/2051 DD 02/04/21	143,934	91,473	
	LEIDOS INC 2.950% 05/15/2023 DD 05/15/21	96,233	91,265	
	BURLINGTON NORTHERN SANTA FE L 6.700% 08/01/2028 DD 07/30/98	83,283	91,051	
	WESTERN & SOUTHERN LIFE I 144A 3.750% 04/28/2061 DD 04/28/21	134,361	90,815	
	TEACHERS INSURANCE & ANNU 144A 6.850% 12/16/2039 DD 12/16/09	81,896	90,703	
	CARGILL INC 144A 5.125% 10/11/2032 DD 10/11/22	89,888	90,392	
	CHARTER COMMUNICATIONS OPERATI 4.400% 12/01/2061 DD 06/02/21	139,868	90,084	
	MPLX LP 4.000% 03/15/2028 DD 02/08/18 ALLEGHANY CORP 3.625% 05/15/2030 DD 05/18/20	105,935	88,512	
	CLEVELAND ELECTRIC ILLUMI 144A 4.550% 11/15/2030 DD 11/02/18	95,544	88,360	
	BERKSHIRE HATHAWAY ENERGY CO 4.450% 01/15/2049 DD 07/25/18	93,930	88,196	
	NEVADA POWER CO 3.125% 08/01/2050 DD 01/30/20	121,744	86,508	
	SAN DIEGO GAS & ELECTRIC CO 1.700% 10/01/2030 DD 09/28/20	102,721	85,151	
		104,849	83,274	

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Corporate Obligations (Continued)				
	T-MOBILE USA INC	4.500% 04/15/2050 DD 04/15/21	\$ 100,571	\$ 83,183
	NATWEST MARKETS PLC	144A 1.600% 09/29/2026 DD 09/29/21	94,977	82,597
	CUBESMART LP	2.250% 12/15/2028 DD 11/30/21	99,515	82,582
	PARAMOUNT GLOBAL	4.200% 05/19/2032 DD 05/19/20	85,150	78,028
	BROADCOM INC	144A 3.137% 11/15/2035 DD 09/30/21	81,328	77,558
	WEST VIRGINIA UNITED HEALTH SY	3.129% 06/01/2050 DD 12/10/20	120,000	77,344
	BROADCOM INC	144A 2.600% 02/15/2033 DD 01/19/21	78,443	75,373
	ESSEX PORTFOLIO LP	1.650% 01/15/2031 DD 08/24/20	76,463	74,857
	TOYOTA MOTOR CREDIT CORP	3.050% 03/22/2027 DD 03/22/22	73,194	74,718
	CAPITAL ONE FINANCIAL CORP	VAR RT 03/01/2030 DD 03/03/22	74,466	72,827
	OFFICE PROPERTIES INCOME TRUST	2.400% 02/01/2027 DD 08/13/21	94,889	69,650
	EMPOWER FINANCE 2020 LP	144A 3.075% 09/17/2051 DD 09/17/20	110,000	69,023
	APPLE INC	2.400% 08/20/2050 DD 08/20/20	70,290	68,969
	PEPSICO INC	4.200% 07/18/2052 DD 07/18/22	74,911	68,835
	VIATRIS INC	2.300% 06/22/2027 DD 06/22/21	81,638	68,421
	UDR INC	1.900% 03/15/2033 DD 12/14/20	64,160	67,908
	DUKE ENERGY CORP	4.200% 06/15/2049 DD 06/07/19	61,254	67,556
	INVITATION HOMES OPERATING PAR	2.000% 08/15/2031 DD 08/06/21	78,717	59,324
	CONSOLIDATED EDISON CO OF NEW	3.200% 12/01/2051 DD 12/02/21	85,000	59,230
	NISOURCE INC	4.375% 05/15/2047 DD 05/22/17	88,974	58,961
	SYNCHRONY BANK	5.625% 08/23/2027 DD 08/23/22	60,000	58,599
	DUKE ENERGY OHIO INC	4.300% 02/01/2049 DD 01/08/19	67,115	57,478
	BALTIMORE GAS AND ELECTRIC CO	4.550% 06/01/2052 DD 06/06/22	59,893	53,450
	CANADIAN NATURAL RESOURCES LTD	6.750% 02/01/2039 DD 01/17/08	52,630	51,952
	CREDIT SUISSE GROUP AG	144A VAR RT 04/01/2031 DD 04/01/20	49,290	50,595
	BURLINGTON NORTHERN SANTA FE L	7.950% 08/15/2030 DD 08/08/00	46,469	48,590
	AMERICAN WATER CAPITAL CORP	4.150% 06/01/2049 DD 05/13/19	65,456	45,670

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Corporate Obligations (Continued)				
	BLACKSTONE HOLDINGS FINAN 144A 1.625% 08/05/2028 DD 08/05/21	\$ 54,844	\$ 44,857	
	EVERSOURCE ENERGY 3.450% 01/15/2050 DD 01/10/20	64,057	43,790	
	AETNA INC 3.500% 11/15/2024 DD 11/10/14	48,563	43,765	
	OVINTIV INC 7.200% 11/01/2031 DD 11/05/01	52,973	43,162	
	ALIBABA GROUP HOLDING LTD 4.200% 12/06/2047 DD 12/06/17	62,989	42,279	
	PLAINS ALL AMERICAN PIPELINE L 6.650% 01/15/2037 DD 07/15/07	46,325	40,542	
	CATERPILLAR INC 3.250% 04/09/2050 DD 04/09/20	40,993	38,123	
	HALLIBURTON CO 4.500% 11/15/2041 DD 11/14/11	38,605	37,748	
	TRANSCONTINENTAL GAS PIPE LINE 4.450% 08/01/2042 DD 07/13/12	44,784	36,686	
	LOWE'S COS INC 4.250% 09/15/2044 DD 09/10/14	48,507	32,783	
	NORFOLK SOUTHERN CORP 3.400% 11/01/2049 DD 11/04/19	44,590	32,319	
	UNITED AIRLINES 2015-1 CLASS A 3.450% 06/01/2029 DD 11/17/15	33,292	30,705	
	CROWN CASTLE INC 4.000% 11/15/2049 DD 08/15/19	31,144	30,440	
	MARATHON PETROLEUM CORP 3.800% 04/01/2028 DD 04/01/19	32,438	27,719	
	BARCLAYS PLC VAR RT 11/24/2032 DD 11/24/21	25,499	26,760	
	ALABAMA POWER CO 3.450% 10/01/2049 DD 09/17/19	29,900	21,747	
	BOEING CO/THE 2.250% 06/15/2026 DD 05/18/16	20,336	18,024	
	JOHNSON CONTROLS INTERNATIONAL 4.500% 02/15/2047 DD 02/07/17	23,942	16,558	
	PROLOGIS LP 1.750% 07/01/2030 DD 07/01/22	19,944	15,807	
	AMERICAN AIRLINES 2017-1 CLASS 3.650% 08/15/2030 DD 01/13/17	11,730	10,462	
	AMERICAN FINANCIAL GROUP INC/O 4.500% 06/15/2047 DD 06/02/17	2,047	1,593	
	BROADCOM INC 144A 3.187% 11/15/2036 DD 09/30/21	1,929	1,441	
	EQUITABLE LIFE ASSURANCE CONTR	4	4	
	JOHN HANCOCK MUT LIFE CONT #11 CAC	1	1	
	METROPOLITAN GAC #294	1	1	
	METROPOLITAN LIFE INS GAC #304	1	1	
Total Corporate Obligations		1,244,023,282	1,033,666,414	
U.S. Government Obligations				
	U S TREASURY BOND 2.000% 11/15/2041 DD 11/15/21	90,259,269	69,994,787	

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U.S. Government Obligations				
(Continued)				
		U S TREASURY BOND 2.250% 02/15/2052 DD 02/15/22	\$ 68,346,379	\$ 56,866,857
		U S TREASURY BOND 2.500% 02/15/2046 DD 02/15/16	\$9,253,246	55,592,733
		U S TREASURY BOND 2.250% 08/15/2046 DD 08/15/16	55,284,592	47,521,858
		U S TREASURY BOND 2.875% 05/15/2052 DD 05/15/22	48,490,615	46,030,006
		U S TREASURY BOND 2.500% 02/15/2045 DD 02/15/15	55,597,494	43,642,492
		U S TREASURY BOND 3.750% 11/15/2043 DD 11/15/13	46,358,859	34,826,896
		U S TREASURY BOND 2.875% 05/15/2043 DD 05/15/13	47,138,703	34,374,006
		U S TREASURY BOND 2.875% 05/15/2049 DD 05/15/19	46,397,079	32,206,334
		U S TREASURY NOTE 2.875% 06/15/2025 DD 06/15/22	32,964,412	32,103,691
		U S TREASURY BOND 3.000% 02/15/2049 DD 02/15/19	40,720,503	30,181,533
		U S TREASURY BOND 1.125% 08/15/2040 DD 08/15/20	31,820,370	23,881,016
		U S TREASURY BOND 1.750% 08/15/2041 DD 08/15/21	23,744,021	23,222,776
		U S TREASURY BOND 3.000% 05/15/2047 DD 05/15/17	27,539,087	20,773,170
		U S TREASURY BOND 3.625% 08/15/2043 DD 08/15/13	27,809,818	19,918,697
		U S TREASURY BOND 4.000% 11/15/2052 DD 11/15/22	20,479,304	19,266,612
		U S TREASURY BOND 3.000% 11/15/2044 DD 11/15/14	26,824,760	18,440,674
		U S TREASURY BOND 3.375% 08/15/2042 DD 08/15/22	18,532,617	18,127,277
		U S TREASURY NOTE 1.875% 02/15/2032 DD 02/15/22	17,950,794	16,886,131
		U S TREASURY BOND 3.000% 08/15/2052 DD 08/15/22	17,580,285	16,747,618
		U S TREASURY NOTE 1.750% 01/31/2029 DD 01/31/22	15,152,862	14,507,509
		U S TREASURY NOTE 4.500% 11/30/2024 DD 11/30/22	13,707,599	13,682,521
		U S TREASURY BOND 2.875% 08/15/2045 DD 08/15/15	18,804,399	13,245,615
		U S TREASURY BOND 3.000% 05/15/2045 DD 05/15/15	16,013,491	12,294,647
		U S TREASURY NOTE 0.875% 01/31/2024 DD 01/31/22	11,756,400	11,630,958
		U S TREASURY NOTE 2.875% 05/15/2032 DD 05/15/22	12,063,035	11,283,973
		U S TREASURY BOND 2.375% 05/15/2051 DD 05/15/21	16,095,426	10,740,183

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		U S TREASURY BOND 1.875% 11/15/2051 DD 11/15/21	13,887,798	10,076,378
U.S. Government Obligations				
(Continued)				
		U S TREASURY BOND 2.375% 02/15/2042 DD 02/15/22	\$ 9,792,552	\$ 8,920,168
		U S TREASURY NOTE 2.750% 05/31/2029 DD 05/31/22	9,227,708	8,907,024
		U S TREASURY NOTE 1.000% 07/31/2028 DD 07/31/21	9,590,785	8,636,846
		U S TREASURY BD PRIN STRIP 0.000% 02/15/2043 DD 02/15/13	7,243,932	8,628,955
		U S TREASURY BOND 2.750% 08/15/2047 DD 08/15/17	12,125,976	8,626,711
		U S TREASURY BOND 4.250% 11/15/2040 DD 11/15/10	11,510,056	8,605,113
		U S TREASURY BOND 4.625% 02/15/2040 DD 02/15/10	10,197,274	8,271,257
		U S TREASURY BOND 2.750% 11/15/2047 DD 11/15/17	10,131,579	7,926,204
		U S TREASURY BOND 2.250% 05/15/2041 DD 05/15/21	8,092,345	7,858,802
		U S TREASURY NOTE 4.125% 11/15/2032 DD 11/15/22	7,749,707	7,640,681
		US TREAS-CPI INFLAT 0.625%007/15/2032 DD 07/15/22	7,306,308	7,254,859
		U S TREASURY BOND 3.125% 08/15/2044 DD 08/15/14	8,761,171	6,993,151
		AMERICAN ELECTRIC POWER PROP VAR RT 12/31/2049 DD 07/24/08	6,640,466	6,640,466
		U S TREASURY NOTE 4.125% 09/30/2027 DD 09/30/22	6,659,664	6,635,310
		U S TREASURY BOND 1.625% 11/15/2050 DD 11/15/20	9,823,870	6,608,655
		U S TREASURY BOND 3.000% 02/15/2048 DD 02/15/18	10,702,430	6,505,342
		U S TREASURY NOTE 2.750% 08/15/2032 DD 08/15/22	6,548,799	6,364,012
		U S TREASURY NOTE 0.250% 08/31/2025 DD 08/31/20	6,578,050	6,030,804
		FEDERAL NATL MTG ASSN 7.250% 05/15/2030 DD 05/05/00	6,649,411	5,741,890
		U S TREASURY NOTE 2.750% 07/31/2027 DD 07/31/22	5,790,030	5,671,506
		U S TREASURY BOND 3.375% 05/15/2044 DD 05/15/14	8,105,856	5,625,543
		U S TREASURY BD CPN STRIP 0.000% 02/15/2040 DD 02/16/10	6,306,661	5,326,173
		U S TREASURY BOND 2.000% 08/15/2051 DD 08/15/21	7,392,092	5,016,309
		U S TREASURY BOND 4.000% 11/15/2042 DD 11/15/22	5,123,258	4,991,406
		U S TREASURY NOTE 2.375% 05/15/2029 DD 05/15/19	5,386,928	4,751,752

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U.S. Government Obligations				
(Continued)				
		U S TREASURY BOND 1.375% 08/15/2050 DD 08/15/20	\$ 6,014,115	\$ 4,519,673
		US TREAS-CPI INFLAT 0.250% 07/15/2029 DD 07/15/19	4,785,609	4,484,147
		U S TREASURY NOTE 3.875% 11/30/2027 DD 11/30/22	4,411,992	4,378,167
		US TREAS-CPI INFLAT 0.750% 07/15/2028 DD 07/15/18	4,621,774	4,352,547
		U S TREASURY BOND 1.875% 02/15/2041 DD 02/15/21	5,717,649	4,246,782
		U S TREASURY NOTE 0.250% 05/15/2024 DD 05/15/21	4,218,330	3,987,676
		U S TREASURY NOTE 0.750% 03/31/2026 DD 03/31/21	4,302,373	3,948,296
		FEDERAL HOME LN MTG CORP 6.750% 03/15/2031 DD 10/25/00	4,330,852	3,791,932
		U S TREASURY BD CPN STRIP 0.000% 05/15/2039 DD 05/15/09	3,969,728	3,789,743
		U S TREASURY NOTE 0.500% 08/31/2027 DD 08/31/20	4,176,562	3,623,465
		U S TREASURY NOTE 0.750% 12/31/2023 DD 12/31/21	3,714,203	3,576,594
		U S TREASURY BOND 3.000% 02/15/2047 DD 02/15/17	3,779,958	3,548,489
		U S TREASURY NOTE 4.125% 10/31/2027 DD 10/31/22	3,540,074	3,532,659
		FEDERAL NATL MTG ASSN 6.625% 11/15/2030 DD 11/03/00	3,996,060	3,526,800
		U S TREASURY BOND 3.125% 11/15/2041 DD 11/15/11	4,037,734	3,381,883
		U S TREASURY BOND 2.250% 08/15/2049 DD 08/15/19	3,441,465	3,192,705
		U S TREASURY NOTE 2.375% 02/29/2024 DD 02/28/19	3,401,346	3,127,375
		U S TREASURY NOTE 1.250% 03/31/2028 DD 03/31/21	3,343,740	3,100,262
		U S TREASURY NOTE 4.000% 12/15/2025 DD 12/15/22	3,021,765	3,003,481
		U S TREASURY NOTE 0.875% 06/30/2026 DD 06/30/21	3,024,823	2,932,009
		U S TREASURY BOND 3.250% 05/15/2042 DD 05/15/22	3,024,470	2,700,940
		U S TREASURY NOTE 4.000% 10/31/2029 DD 10/31/22	2,561,400	2,586,863
		U S TREASURY NOTE 0.625% 07/31/2026 DD 07/31/21	2,734,062	2,472,709
		U S TREASURY NOTE 1.500% 08/15/2026 DD 08/15/16	2,523,259	2,427,463
		U S TREASURY NOTE 1.875% 02/28/2027 DD 02/28/22	2,407,929	2,393,970
		U S TREASURY NOTE 2.625% 07/31/2029 DD 07/31/22	2,342,616	2,256,662

American Electric Power System Retirement Plan

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(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party		Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
U.S. Government Obligations (Continued)				
		U S TREASURY NOTE 0.875% 09/30/2026 DD 09/30/21	\$ 2,261,690	\$ 2,196,176
		U S TREASURY NOTE 3.875% 11/30/2029 DD 11/30/22	2,063,786	2,041,042
		U S TREASURY NOTE 0.125% 12/15/2023 DD 12/15/20	2,063,365	2,021,232
		FEDERAL HOME LN BK CONS BD 4.500% 10/03/2024 DD 10/28/22	1,952,869	1,953,671
		U S TREASURY NOTE 3.125% 08/15/2025 DD 08/15/22	1,919,790	1,909,273
		U S TREASURY NOTE 0.250% 07/31/2025 DD 07/31/20	2,099,884	1,905,520
		U S TREASURY NOTE 1.000% 12/15/2024 DD 12/15/21	1,678,746	1,681,053
		U S TREASURY NOTE 1.500% 10/31/2024 DD 10/31/19	1,838,769	1,663,687
		U S TREASURY NOTE 0.250% 10/31/2025 DD 10/31/20	1,726,354	1,620,095
		ISRAEL ST AID 5.500% 09/18/2033 DD 09/18/03	1,485,786	1,532,771
		U S TREASURY NOTE 3.125% 11/15/2028 DD 11/15/18	1,497,566	1,481,459
		U S TREASURY NOTE 1.500% 09/30/2024 DD 09/30/19	1,355,542	1,230,354
		U S TREASURY NOTE 3.000% 07/15/2025 DD 07/15/22	1,235,245	1,211,675
		U S TREASURY NOTE 0.375% 11/30/2025 DD 11/30/20	1,255,331	1,155,002
		U S TREASURY NOTE 1.625% 02/15/2026 DD 02/15/16	1,265,596	1,138,709
		U S TREASURY NOTE 4.500% 11/15/2025 DD 11/15/22	1,077,774	1,077,362
		U S TREASURY BD PRIN STRIP 0.000% 05/15/2042 DD 05/15/12	1,175,804	1,067,424
		U S TREASURY NOTE 1.250% 05/31/2028 DD 05/31/21	1,161,865	1,023,697
		US TREAS-CPI INFLAT 0.125%002/15/2052 DD 02/15/22	1,139,405	931,562
		U S TREASURY NOTE 2.625% 02/15/2029 DD 02/15/19	977,044	916,988
		U S TREASURY BOND 1.250% 05/15/2050 DD 05/15/20	1,244,494	794,050
		FEDERAL HOME LN MTG CORP 0.375% 09/23/2025 DD 09/25/20	787,395	711,553
		FEDERAL NATL MTG ASSN 0.750% 10/08/2027 DD 10/09/20	793,047	685,950
		PRIVATE EXPORT FUNDING CORP 1.400% 07/15/2028 DD 06/28/21	753,135	640,565
		U S TREASURY NOTE 2.250% 11/15/2027 DD 11/15/17	582,221	572,316
		U S TREASURY BOND 6.375% 08/15/2027 DD 08/15/97	548,677	553,606

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Identity of Issuer, Borrower, Lessor, or Similar Party		Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
U.S. Government Obligations (Continued)				
		FEDERAL NATL MTG ASSN 1.875% 09/24/2026 DD 09/27/16	\$ 550,010	\$ 489,704
		FEDERAL NATL MTG ASSN 0.875% 08/05/2030 DD 08/05/20	312,914	254,738
		US 10YR ULTRA FUTURE (CBT) EXP MAR 23	-	192,210
		US 10YR NOTE FUTURE (CBT) EXP MAR 23	-	153,498
		U S TREASURY NOTE 0.250% 03/15/2024 DD 03/15/21	134,504	128,033
		PRIVATE EXPORT FUNDING CORP 3.550% 01/15/2024 DD 01/14/14	69,761	69,076
		US 2YR NOTE FUTURE (CBT) EXP MAR 23	-	42,491
		ISRAEL ST AID 5.500% 04/26/2024 DD 04/26/04	23,984	20,134
		U S TREASURY BOND 1.875% 02/15/2051 DD 02/15/21	4,715	3,209
		US LONG BOND FUTURE (CBT) EXP MAR 23	-	(24,466)
		US 5YR NOTE FUTURE (CBT) EXP MAR 23	-	(80,095)
		US ULTRA BOND (CBT) EXP MAR 23	-	(836,754)
Total U.S. Government Obligations			1,278,491,081	1,055,257,749
Total Investments			4,269,528,351	4,082,625,230
401(h)				
Short-Term Investments				
*		EB TEMP INV FD VAR RT 12/31/2049 DD 04/02/10	6,701,287	6,701,287
		CAD (CANADIAN DOLLARS)	3,111	2,883
		GBP (GREAT BRITISH POUNDS)	566	517
		NZD (NEW ZEALAND DOLLAR)	49	41
		ZAR (SOUTH AFRICAN RAND)	1	1
		JPY (JAPANESE YEN)	0	0
		TWD (TAIWAN DOLLAR)	0	0
		HKD (HONG KONG DOLLARS)	0	0
		KRW (SOUTH KOREAN WON)	-	-
		CHF (SWISS FRANC)	(0)	(0)
		EUR (EURO)	(15)	(0)
Total Short-Term Investments			6,704,999	6,704,729
State and Local Government Obligations				
		ILLINOIS ST 5.100% 06/01/2033 DD 06/12/03	585,810	489,467
		NEW YORK CITY NY MUNI WTR FIN 5.440% 06/15/2043 DD 09/23/10	257,178	207,848
		PORT AUTH OF NEW YORK & NEW JE 4.926% 10/01/2051 DD 10/06/11	234,462	183,846
		MUNI ELEC AUTH OF GEORGIA 6.637% 04/01/2057 DD 03/11/10	211,063	182,926

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
State and Local Government Obligations (Continued)				
	SALES TAX SECURITIZATION CORP 4.637% 01/01/2040 DD 01/30/19	\$ 181,793	\$ 168,118	
	DALLAS TX AREA RAPID TRANSIT S 2.613% 12/01/2048 DD 12/01/21	217,807	158,004	
	UNIV OF CALIFORNIA CA RGTS MED 4.563% 05/15/2053 DD 05/11/22	162,052	139,971	
	NEW YORK ST THRUWAY AUTH 3.500% 01/01/2042 DD 10/30/19	155,105	121,164	
	UNIV OF CALIFORNIA CA REVENUES 4.767% 05/15/2115 DD 04/08/15	143,595	114,215	
	CALIFORNIA ST 7.600% 11/01/2040 DD 12/01/10	134,124	108,899	
	CHICAGO IL TRANSIT AUTH SALES 6.899% 12/01/2040 DD 08/06/08	117,517	105,296	
	SALES TAX SECURITIZATION CORP 3.587% 01/01/2043 DD 12/14/17	118,478	104,826	
	NEW YORK ST DORM AUTH ST PERSO 3.110% 02/15/2039 DD 01/03/20	80,000	62,930	
	UNIV OF CALIFORNIA CA RGTS MED 6.548% 05/15/2048 DD 11/18/10	65,945	56,839	
	PORT AUTH OF NEW YORK & NEW JE 3.287% 08/01/2069 DD 08/16/19	60,478	52,174	
	KANSAS ST DEV FIN AUTH REVENUE 4.927% 04/15/2045 DD 08/20/15	48,940	42,504	
	RUTGERS NJ ST UNIV 3.270% 05/01/2043 DD 10/24/19	50,000	37,674	
	MASSACHUSETTS ST 2.514% 07/01/2041 DD 07/09/20	50,000	36,003	
	BAY AREA CA TOLL AUTH TOLL BRI 3.552% 04/01/2054 DD 09/26/19	45,000	32,645	
	N TX TOLLWAY AUTH REVENUE 6.718% 01/01/2049 DD 08/12/09	37,385	29,630	
	CHICAGO IL TRANSIT AUTH SALES 6.200% 12/01/2040 DD 04/06/10	24,346	21,515	
	DALLAS-FORT WORTH TX INTERNATI 4.087% 11/01/2051 DD 04/21/22	25,000	20,816	
	CALIFORNIA ST 7.550% 04/01/2039 DD 04/28/09	23,588	18,773	
	CMWLTH FING AUTH PA 4.144% 06/01/2038 DD 10/31/16	9,709	8,948	
Total State and Local Government Obligations		3,039,375	2,505,031	
Common/Collective Trusts				
	JPMCB LONG DURATION INVESTMENT GRADE FUND	81,726,917	98,906,964	
*	BNYM-M DB SL ACWI FUND	59,178,417	70,213,069	
Total Common/Collective Trusts		140,905,334	169,120,033	

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Corporate Obligations				
	AT&T INC 3.500% 09/15/2053 DD 03/15/21	\$ 992,015	\$ 771,479	
	VERIZON COMMUNICATIONS INC 4.812% 03/15/2039 DD 02/03/17	796,187	730,796	
	AT&T INC 3.800% 12/01/2057 DD 06/01/21	935,184	666,908	
	ANHEUSER-BUSCH COS LLC / ANHEU 4.900% 02/01/2046 DD 02/01/19	688,545	639,745	
	COMCAST CORP 3.400% 07/15/2046 DD 07/19/16	758,254	625,422	
	JPMORGAN CHASE & CO VAR RT 04/22/2041 DD 04/22/20	701,116	548,303	
	BERKSHIRE HATHAWAY ENERGY CO 6.125% 04/01/2036 DD 10/01/06	606,750	488,824	
	HSBC HOLDINGS PLC VAR RT 05/24/2032 DD 05/24/21	625,000	483,756	
	GOLDMAN SACHS GROUP INC/THE VAR RT 10/31/2038 DD 10/31/17	554,302	470,894	
	CHARTER COMMUNICATIONS OPERATI 5.375% 05/01/2047 DD 11/01/17	580,650	433,725	
	TIME WARNER CABLE LLC 5.500% 09/01/2041 DD 09/12/11	557,102	433,056	
	APPLE INC 3.850% 08/04/2046 DD 08/04/16	505,982	430,765	
	MICROSOFT CORP 2.921% 03/17/2052 DD 03/17/21	576,169	412,877	
	MORGAN STANLEY VAR RT 07/22/2038 DD 07/24/17	448,392	384,184	
	ENTERPRISE PRODUCTS OPERATING 5.100% 02/15/2045 DD 02/12/14	450,186	366,250	
	BURLINGTON NORTHERN SANTA FE L 4.150% 04/01/2045 DD 03/09/15	448,490	364,880	
	WELLS FARGO & CO 4.650% 11/04/2044 DD 11/04/14	450,203	360,022	
	WARNERMEDIA HOLDINGS INC 144A 5.141% 03/15/2052 DD 03/15/22	444,653	343,344	
	BANK OF AMERICA CORP VAR RT 04/23/2040 DD 04/23/19	400,618	337,750	
	ENERGY TRANSFER LP 6.050% 06/01/2041 DD 05/12/11	380,020	335,152	
	MCDONALD'S CORP 4.875% 12/09/2045 DD 12/09/15	380,929	316,445	
	ORACLE CORP 5.375% 07/15/2040 DD 07/15/11	409,257	310,116	
	SUNCOR ENERGY INC 6.500% 06/15/2038 DD 06/28/07	340,513	309,120	
	ORACLE CORP 3.600% 04/01/2050 DD 04/01/20	473,634	305,073	
	SOUTHERN CO/THE 4.400% 07/01/2046 DD 05/24/16	370,438	297,795	
	MEXICO GOVERNMENT INTERNATIONAL 4.400% 02/12/2052	403,404	296,969	
	NATIONWIDE MUTUAL INSURAN 144A 9.375% 08/15/2039 DD 08/10/09	379,197	290,635	

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Corporate Obligations (Continued)				
	HOME DEPOT INC/THE 4.400% 03/15/2045 DD 06/12/14	\$ 345,473	\$ 287,814	
	REYNOLDS AMERICAN INC 5.850% 08/15/2045 DD 06/12/15	357,372	278,402	
	PACIFICORP 4.125% 01/15/2049 DD 07/13/18	329,261	271,976	
	AMAZON.COM INC 3.950% 04/13/2052 DD 04/13/22	322,041	271,505	
	POTOMAC ELECTRIC POWER CO 4.150% 03/15/2043 DD 03/18/13	335,749	267,829	
	DISCOVERY COMMUNICATIONS LLC 5.200% 09/20/2047 DD 09/21/17	374,948	267,551	
	BANK OF AMERICA CORP VAR RT 04/22/2042 DD 04/22/21	360,000	265,828	
	CHARTER COMMUNICATIONS OPERATI 6.484% 10/23/2045 DD 10/23/16	299,864	253,576	
	ORACLE CORP 4.000% 07/15/2046 DD 07/07/16	281,319	253,316	
	CONSOLIDATED EDISON CO OF NEW 6.750% 04/01/2038 DD 04/04/08	322,666	251,963	
	SEMPRA ENERGY 3.800% 02/01/2038 DD 01/12/18	285,822	250,985	
	PACIFIC GAS AND ELECTRIC CO 4.950% 07/01/2050 DD 07/02/20	294,203	248,673	
	JPMORGAN CHASE & CO VAR RT 07/24/2038 DD 07/24/17	295,242	246,030	
	COMMONWEALTH EDISON CO 6.450% 01/15/2038 DD 01/16/08	302,136	242,499	
	VERIZON COMMUNICATIONS INC 3.400% 03/22/2041 DD 03/22/21	291,352	241,654	
	DOMINION ENERGY INC 7.000% 06/15/2038 DD 06/17/08	297,537	236,742	
	ANHEUSER-BUSCH COS LLC / ANHEU 4.700% 02/01/2036 DD 02/01/19	236,179	232,054	
	DUKE ENERGY INDIANA LLC 4.200% 03/15/2042 DD 03/15/12	295,916	231,218	
	ABBOTT LABORATORIES 4.750% 11/30/2036 DD 11/22/16	237,591	228,873	
	ABBVIE INC 4.300% 05/14/2036 DD 05/12/16	232,604	222,791	
	SHELL INTERNATIONAL FINANCE BV 4.000% 05/10/2046 DD 05/10/16	274,996	220,795	
	CREDIT SUISSE GROUP AG 144A VAR RT 08/12/2033 DD 08/12/22	250,000	220,030	
	LOCKHEED MARTIN CORP 3.600% 03/01/2035 DD 02/20/15	243,133	218,283	
	BOEING CO/THE 5.705% 05/01/2040 DD 05/04/20	228,930	214,560	
	BROADCOM INC 144A 3.469% 04/15/2034 DD 03/31/21	272,250	212,347	
	ABBVIE INC 4.050% 11/21/2039 DD 05/21/20	247,091	210,921	

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Corporate Obligations (Continued)				
	ELEVANCE HEALTH INC 4.625% 05/15/2042 DD 05/07/12	\$ 249,835	\$ 210,411	
	BARCLAYS PLC VAR RT 11/02/2033 DD 11/02/22	200,000	210,226	
	JPMORGAN CHASE & CO VAR RT 11/15/2048 DD 11/10/17	263,690	207,177	
	CONAGRA BRANDS INC 5.400% 11/01/2048 DD 10/22/18	239,452	204,620	
	ANGLO AMERICAN CAPITAL PL 144A 5.625% 04/01/2030 DD 04/01/20	240,850	199,078	
	ROYALTY PHARMA PLC 3.350% 09/02/2051 DD 07/26/21	307,330	194,626	
	BROADCOM INC 4.300% 11/15/2032 DD 05/08/20	240,172	194,605	
	UNITEDHEALTH GROUP INC 3.050% 05/15/2041 DD 05/19/21	223,143	192,793	
	AMERICA MOVIL SAB DE CV 4.700% 07/21/2032 DD 07/21/22	199,762	191,934	
	ORACLE CORP 3.600% 04/01/2040 DD 04/01/20	261,383	191,028	
	GEORGIA POWER CO 4.300% 03/15/2042 DD 03/06/12	227,305	190,016	
	BERKSHIRE HATHAWAY FINANCE COR 3.850% 03/15/2052 DD 03/15/22	234,170	190,014	
	INTERNATIONAL BUSINESS MACHINE 4.900% 07/27/2052 DD 07/27/22	202,146	187,175	
	DUKE ENERGY CORP 3.750% 09/01/2046 DD 08/12/16	210,271	186,725	
	CVS HEALTH CORP 5.125% 07/20/2045 DD 07/20/15	230,265	181,476	
	GOLDMAN SACHS GROUP INC/THE VAR RT 07/21/2042 DD 07/21/21	251,784	181,469	
	ABBVIE INC 4.500% 05/14/2035 DD 05/14/15	193,848	181,155	
	MICROSOFT CORP 2.525% 06/01/2050 DD 06/01/20	245,042	181,119	
	INTEL CORP 4.900% 08/05/2052 DD 08/05/22	199,594	177,950	
	ONEOK PARTNERS LP 6.850% 10/15/2037 DD 09/28/07	191,927	176,934	
	CVS HEALTH CORP 4.125% 04/01/2040 DD 03/31/20	197,228	175,640	
	EMERA US FINANCE LP 4.750% 06/15/2046 DD 12/15/16	216,442	175,158	
	AMAZON.COM INC 3.875% 08/22/2037 DD 02/22/18	202,852	173,950	
	PACIFIC GAS AND ELECTRIC CO 3.950% 12/01/2047 DD 11/29/17	227,198	170,538	
	DIAMONDBACK ENERGY INC 6.250% 03/15/2053 DD 12/13/22	175,234	170,296	
	MEXICO GOVERNMENT INTERNATIONA 5.000% 04/27/2051	217,560	170,216	

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Corporate Obligations (Continued)				
	RAYTHEON TECHNOLOGIES CORP 3.750% 11/01/2046 DD 11/01/16	\$ 206,680	\$ 166,984	
	ENEL FINANCE INTERNATIONA 144A 5.500% 06/15/2052	197,568	166,118	
	BERKSHIRE HATHAWAY INC 4.500% 02/11/2043 DD 02/11/13	194,506	164,763	
	WALT DISNEY CO/THE 6.200% 12/15/2034 DD 06/15/19	177,204	163,679	
	ENERGY TRANSFER LP 6.000% 06/15/2048 DD 06/08/18	183,923	162,628	
	BNP PARIBAS SA 144A VAR RT 01/20/2033 DD 01/20/22	200,000	158,456	
	DISCOVERY COMMUNICATIONS LLC 5.300% 05/15/2049 DD 05/21/19	208,703	156,861	
	AMERICAN WATER CAPITAL CORP 4.200% 09/01/2048 DD 08/09/18	194,458	155,333	
	MORGAN STANLEY VAR RT 02/13/2032 DD 11/13/20	205,000	154,580	
	EIG PEARL HOLDINGS SARL 144A 4.387% 11/30/2046 DD 01/25/22	161,306	153,510	
	ALCON FINANCE CORP 144A 3.800% 09/23/2049 DD 09/23/19	166,534	152,952	
	WALT DISNEY CO/THE 3.500% 05/13/2040 DD 05/13/20	192,639	152,887	
	UNITEDHEALTH GROUP INC 3.500% 08/15/2039 DD 07/25/19	191,980	151,992	
	TRANSCANADA PIPELINES LTD 4.625% 03/01/2034 DD 02/28/14	167,862	150,967	
	UNUM GROUP 4.500% 12/15/2049 DD 09/11/19	183,573	149,915	
	BANK OF AMERICA CORP VAR RT 01/20/2048 DD 01/20/17	186,426	147,866	
	BRISTOL-MYERS SQUIBB CO 4.250% 10/26/2049 DD 04/26/20	222,858	147,586	
	KRAFT HEINZ FOODS CO 4.375% 06/01/2046 DD 05/24/16	160,437	147,341	
	CVS HEALTH CORP 4.780% 03/25/2038 DD 03/09/18	155,336	146,269	
	PANAMA GOVERNMENT INTERNATIONA 4.500% 04/01/2056 DD 04/01/20	200,000	145,590	
	GE HEALTHCARE TECHNOLOGIE 144A 6.377% 11/22/2052 DD 11/22/22	135,000	145,328	
	DUKE ENERGY PROGRESS LLC 4.100% 05/15/2042 DD 05/18/12	178,034	143,982	
	WELLS FARGO & CO VAR RT 03/02/2033 DD 03/02/22	170,000	143,711	
	JOHNSON & JOHNSON 3.700% 03/01/2046 DD 03/01/16	175,617	143,677	
	CHILE GOVERNMENT INTERNATIONAL 3.100% 05/07/2041	198,852	143,395	
	HSBC HOLDINGS PLC 6.500% 09/15/2037 DD 09/12/07	157,626	143,359	

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Corporate Obligations (Continued)				
	PLAINS ALL AMERICAN PIPELINE L 4.900% 02/15/2045 DD 12/09/14	\$ 170,814	\$ 142,757	
	ITC HOLDINGS CORP 5.300% 07/01/2043 DD 07/03/13	186,902	142,610	
	OGLETHORPE POWER CORP 5.050% 10/01/2048 DD 04/01/19	157,278	141,910	
	CHILE GOVERNMENT INTERNATIONAL 3.500% 04/15/2053	146,300	141,852	
	DUKE ENERGY CAROLINAS LLC 3.875% 03/15/2046 DD 03/11/16	179,422	138,595	
	ONCOR ELECTRIC DELIVERY CO LLC 4.550% 12/01/2041 DD 06/01/12	168,823	138,094	
	VODAFONE GROUP PLC 5.250% 05/30/2048 DD 05/30/18	152,933	137,342	
	BRIGHTHOUSE FINANCIAL INC 4.700% 06/22/2047 DD 12/22/17	184,449	137,151	
	SHELL INTERNATIONAL FINANCE BV 2.875% 11/26/2041 DD 11/26/21	167,436	135,172	
	LOWE'S COS INC 4.050% 05/03/2047 DD 05/03/17	156,984	133,924	
	GILEAD SCIENCES INC 4.500% 02/01/2045 DD 11/17/14	173,296	132,944	
	EXXON MOBIL CORP 4.327% 03/19/2050 DD 03/19/20	150,050	132,326	
	NATIONAL RURAL UTILITIES COOPE 2.750% 04/15/2032 DD 02/07/22	151,277	132,006	
	ROCHE HOLDINGS INC 144A 2.607% 12/13/2051 DD 12/13/21	200,000	130,050	
	PARAMOUNT GLOBAL 4.375% 03/15/2043 DD 03/15/13	148,670	129,393	
	TARGA RESOURCES CORP 6.250% 07/01/2052 DD 07/07/22	134,952	128,241	
	INTERNATIONAL BUSINESS MACHINE 2.850% 05/15/2040 DD 05/07/20	153,246	127,468	
	BERKSHIRE HATHAWAY ENERGY 144A 4.600% 05/01/2053 DD 04/21/22	144,358	126,788	
	PACIFIC GAS AND ELECTRIC CO 3.500% 08/01/2050 DD 06/19/20	191,017	123,224	
	AMAZON.COM INC 2.700% 06/03/2060 DD 06/03/20	195,984	121,672	
	GOLDMAN SACHS GROUP INC/THE VAR RT 04/23/2039 DD 04/23/18	139,715	121,584	
	KAISER FOUNDATION HOSPITALS 2.810% 06/01/2041 DD 06/15/21	165,000	120,323	
	KAISER FOUNDATION HOSPITALS 3.002% 06/01/2051 DD 06/15/21	175,000	120,192	
	BRISTOL-MYERS SQUIBB CO 2.550% 11/13/2050 DD 11/13/20	188,554	120,173	
	BANK OF AMERICA CORP VAR RT 04/27/2033 DD 04/27/22	130,000	119,397	
	TARGA RESOURCES CORP 4.950% 04/15/2052 DD 04/06/22	146,217	119,319	

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(a)	(b)	(c)	(d)	(e)
	Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Corporate Obligations (Continued)				
	CLECO CORPORATE HOLDINGS LLC VAR RT 05/01/2046 DD 11/01/16		\$ 151,519	\$ 118,777
	VISA INC 4.150% 12/14/2035 DD 12/14/15		126,831	118,464
	GLP CAPITAL LP / GLP FINANCING 5.300% 01/15/2029 DD 09/26/18		125,052	118,274
	HCA INC 144A 4.625% 03/15/2052 DD 03/09/22		145,863	117,576
	BP CAPITAL MARKETS AMERICA INC 3.379% 02/08/2061 DD 02/08/21		167,669	117,271
	KEYSPAN GAS EAST CORP 144A 3.586% 01/18/2052 DD 01/18/22		175,000	116,788
	ROYALTY PHARMA PLC 3.550% 09/02/2050 DD 03/02/21		161,142	115,884
	RAYTHEON TECHNOLOGIES CORP 4.200% 12/15/2044 DD 06/15/20		180,293	114,785
	AMGEN INC 3.150% 02/21/2040 DD 02/21/20		156,113	114,644
	QUALCOMM INC 4.500% 05/20/2052 DD 05/09/22		127,167	114,270
	LEIDOS INC 4.375% 05/15/2030 DD 05/15/21		122,851	113,034
	MORGAN STANLEY VAR RT 01/22/2031 DD 01/22/20		135,000	111,873
	T-MOBILE USA INC 4.375% 04/15/2040 DD 04/15/21		132,254	111,553
	CONOCOPHILLIPS CO 3.800% 03/15/2052 DD 03/08/22		137,145	111,089
	MARSH & MCLENNAN COS INC 4.750% 03/15/2039 DD 01/15/19		125,032	110,849
	WILLIAMS COS INC/THE 6.300% 04/15/2040 DD 02/09/10		122,994	109,873
	INTEL CORP 3.250% 11/15/2049 DD 11/21/19		139,691	109,275
	INTEL CORP 3.100% 02/15/2060 DD 02/13/20		173,847	108,941
	SOUTHERN CALIFORNIA EDISON CO 3.600% 02/01/2045 DD 01/16/15		148,989	108,102
	PHILIP MORRIS INTERNATIONAL IN 5.750% 11/17/2032 DD 11/17/22		105,100	107,369
	MPLX LP 4.950% 03/14/2052 DD 03/14/22		128,677	106,929
	LOWE'S COS INC 5.800% 09/15/2062 DD 09/08/22		109,168	106,369
	PFIZER INC 4.125% 12/15/2046 DD 11/21/16		128,524	106,219
	WARNERMEDIA HOLDINGS INC 144A 5.391% 03/15/2062 DD 03/15/22		145,000	105,528
	BANK OF AMERICA CORP VAR RT 01/23/2049 DD 01/23/18		126,749	105,147
	PACIFIC GAS AND ELECTRIC CO 4.400% 03/01/2032 DD 02/18/22		119,632	105,085
	APPLE INC 2.950% 09/11/2049 DD 09/11/19		149,910	104,964

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	DIGNITY HEALTH 5.267% 11/01/2064 DD 10/15/14	\$ 126,909	\$ 104,152	
	CSL FINANCE PLC 144A 4.750% 04/27/2052 DD 04/27/22	115,534	103,791	
	RAYTHEON TECHNOLOGIES CORP 4.050% 05/04/2047 DD 05/04/17	116,014	103,253	
	OHIO EDISON CO 6.875% 07/15/2036 DD 06/26/06	128,121	102,935	
	CSL FINANCE PLC 144A 4.950% 04/27/2062 DD 04/27/22	116,006	102,909	
	ALTRIA GROUP INC 3.400% 02/04/2041 DD 02/04/21	119,643	102,903	
	SALESFORCE INC 2.900% 07/15/2051 DD 07/12/21	144,144	102,357	
	NVIDIA CORP 3.500% 04/01/2050 DD 03/31/20	127,395	102,237	
	APPLE INC 3.950% 08/08/2052 DD 08/08/22	119,207	101,971	
	MORGAN STANLEY VAR RT 10/20/2032 DD 10/19/21	125,395	101,707	
	CONSOLIDATED EDISON CO OF NEW 3.700% 11/15/2059 DD 11/08/19	138,755	101,506	
	UNION PACIFIC CORP 3.500% 02/14/2053 DD 02/14/22	123,162	101,270	
	NORTHERN STATES POWER CO/MN 3.600% 09/15/2047 DD 09/13/17	116,547	100,822	
	BAYER US FINANCE II LLC 144A 4.700% 07/15/2064 DD 07/15/18	125,753	100,147	
	NORTHROP GRUMMAN CORP 4.030% 10/15/2047 DD 10/13/17	112,740	99,958	
	PARAMOUNT GLOBAL 4.950% 05/19/2050 DD 05/19/20	120,608	98,843	
	MPLX LP 5.200% 03/01/2047 DD 02/10/17	116,063	98,146	
	BAXTER INTERNATIONAL INC 3.132% 12/01/2051 DD 06/01/22	146,077	97,715	
	BOSTON SCIENTIFIC CORP 4.550% 03/01/2039 DD 02/25/19	105,405	95,608	
	SOUTHERN CALIFORNIA EDISON CO 3.650% 02/01/2050 DD 01/09/20	134,896	95,551	
	AT&T INC 3.650% 09/15/2059 DD 03/15/21	120,823	94,181	
	MARATHON OIL CORP 6.600% 10/01/2037 DD 09/27/07	110,690	94,058	
	PARAMOUNT GLOBAL 4.900% 08/15/2044 DD 08/19/14	105,996	93,282	
	CHARTER COMMUNICATIONS OPERATI 3.850% 04/01/2061 DD 12/04/20	159,811	92,925	
	DUKE ENERGY CORP 3.300% 06/15/2041 DD 06/10/21	124,690	92,056	
	INTERNATIONAL BUSINESS MACHINE 3.430% 02/09/2052 DD 02/09/22	129,975	91,771	
	T-MOBILE USA INC 3.400% 10/15/2052 DD 04/15/22	134,220	91,326	

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	INTERCONTINENTAL EXCHANGE INC 3.000% 09/15/2060 DD 08/20/20	\$ 144,200	\$ 90,976	
	ALTRIA GROUP INC 3.875% 09/16/2046 DD 09/16/16	129,756	90,917	
	AMAZON.COM INC 4.050% 08/22/2047 DD 02/22/18	107,520	90,441	
	PACIFIC GAS AND ELECTRIC CO 5.250% 03/01/2052 DD 02/18/22	108,675	90,421	
	ENTERPRISE PRODUCTS OPERATING 4.800% 02/01/2049 DD 10/11/18	117,571	90,092	
	MOLSON COORS BEVERAGE CO 4.200% 07/15/2046 DD 07/07/16	116,591	89,768	
	WELLS FARGO & CO VAR RT 04/25/2053 DD 04/25/22	94,037	89,412	
	DUKE ENERGY CORP 5.000% 08/15/2052 DD 08/11/22	97,529	89,315	
	BANK OF AMERICA CORP VAR RT 03/15/2050 DD 03/15/19	136,739	89,225	
	OTIS WORLDWIDE CORP 3.112% 02/15/2040 DD 08/15/20	120,555	88,566	
	ABBVIE INC 4.250% 11/21/2049 DD 05/21/20	109,544	88,493	
	VIRGINIA ELECTRIC AND POWER CO 4.650% 08/15/2043 DD 08/15/13	113,103	88,330	
	COCA-COLA CO/THE 2.500% 06/01/2040 DD 05/01/20	116,005	88,015	
	UNITEDHEALTH GROUP INC 5.350% 02/15/2033 DD 10/28/22	84,688	87,954	
	EATON CORP 4.700% 08/23/2052 DD 08/23/22	94,401	86,612	
	COMCAST CORP 3.900% 03/01/2038 DD 02/08/18	99,515	86,595	
	BURLINGTON NORTHERN SANTA FE L 4.550% 09/01/2044 DD 08/18/14	100,152	86,401	
	AMERICAN WATER CAPITAL CORP 3.750% 09/01/2047 DD 08/10/17	103,504	86,290	
	AETNA INC 4.125% 11/15/2042 DD 11/07/12	109,666	86,192	
	NORFOLK SOUTHERN CORP 4.800% 08/15/2043 DD 08/13/13	111,338	85,835	
	ANHEUSER-BUSCH INBEV WORLDWIDE 5.450% 01/23/2039 DD 01/23/19	86,958	85,264	
	PARAMOUNT GLOBAL 5.850% 09/01/2043 DD 08/19/13	83,572	85,121	
	APPLE INC 2.375% 02/08/2041 DD 02/08/21	119,810	85,068	
	ORACLE CORP 4.000% 11/15/2047 DD 11/09/17	123,357	84,670	
	BANK OF AMERICA CORP VAR RT 06/19/2041 DD 06/19/20	126,011	84,661	
	AON CORP / AON GLOBAL HOLDINGS 3.900% 02/28/2052 DD 02/28/22	108,335	84,645	

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	GEORGIA POWER CO 5.125% 05/15/2052 DD 05/04/22	\$ 90,957	\$ 84,043	
	OGLETHORPE POWER CORP 144A 4.500% 04/01/2047 DD 04/12/22	104,534	83,929	
	CONSOLIDATED EDISON CO OF NEW 4.500% 05/15/2058 DD 05/10/18	95,907	83,811	
	NORTHERN STATES POWER CO/MN 2.600% 06/01/2051 DD 06/15/20	127,553	83,244	
	APPLE INC 2.700% 08/05/2051 DD 08/05/21	124,303	83,073	
	BRISTOL-MYERS SQUIBB CO 2.350% 11/13/2040 DD 11/13/20	119,417	83,072	
	T-MOBILE USA INC 5.650% 01/15/2053 DD 09/15/22	84,775	82,957	
	HERSHEY CO/THE 3.125% 11/15/2049 DD 10/31/19	111,521	82,333	
	CITIGROUP INC 4.650% 07/30/2045 DD 07/30/15	99,577	81,994	
	DOMINION ENERGY INC 3.300% 04/15/2041 DD 04/05/21	109,903	81,917	
	CSX CORP 4.500% 08/01/2054 DD 07/21/14	99,928	81,527	
	ASTRAZENECA PLC 4.375% 11/16/2045 DD 11/16/15	95,753	81,239	
	EXXON MOBIL CORP 4.227% 03/19/2040 DD 03/19/20	95,787	81,239	
	WELLTOWER OP LLC 6.500% 03/15/2041 DD 03/14/11	95,349	80,070	
	VICI PROPERTIES LP 5.625% 05/15/2052 DD 04/29/22	89,756	79,611	
	CONSTELLATION BRANDS INC 3.750% 05/01/2050 DD 04/27/20	104,305	79,493	
	EQUITABLE HOLDINGS INC 5.000% 04/20/2048 DD 10/20/18	86,389	79,318	
	UNION PACIFIC CORP 4.100% 09/15/2067 DD 09/19/17	96,270	78,545	
	ROGERS COMMUNICATIONS INC 144A 4.550% 03/15/2052 DD 03/11/22	96,106	77,578	
	PLAINS ALL AMERICAN PIPELINE L 5.150% 06/01/2042 DD 03/22/12	82,984	77,418	
	WILLIAMS COS INC/THE 5.800% 11/15/2043 DD 11/15/13	92,308	76,498	
	BP CAPITAL MARKETS AMERICA INC 2.939% 06/04/2051 DD 12/04/20	107,883	76,289	
	UNITEDHEALTH GROUP INC 3.750% 10/15/2047 DD 10/25/17	94,122	76,117	
	ALABAMA POWER CO 3.450% 10/01/2049 DD 09/17/19	110,136	76,116	
	SHERWIN-WILLIAMS CO/THE 4.500% 06/01/2047 DD 05/16/17	85,681	76,099	
	BAT CAPITAL CORP 4.742% 03/16/2032 DD 03/16/22	85,000	75,669	
	ORACLE CORP 3.800% 11/15/2037 DD 11/09/17	94,643	75,589	

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Corporate Obligations (Continued)				
	EQUINOR ASA 4.250% 11/23/2041 DD 11/23/11	\$ 88,078	\$ 75,253	
	RIO TINTO FINANCE USA LTD 5.200% 11/02/2040 DD 11/02/10	89,512	75,155	
	ANHEUSER-BUSCH INBEV WORLDWIDE 4.350% 06/01/2040 DD 04/03/20	84,946	75,055	
	SIMON PROPERTY GROUP LP 3.250% 09/13/2049 DD 09/13/19	109,561	73,376	
	CITIGROUP INC VAR RT 11/03/2042 DD 11/03/21	105,000	72,921	
	NISOURCE INC 4.375% 05/15/2047 DD 05/22/17	108,039	71,596	
	SAN DIEGO GAS & ELECTRIC CO 3.700% 03/15/2052 DD 03/11/22	87,472	71,360	
	SUTTER HEALTH 3.361% 08/15/2050 DD 10/29/20	104,000	71,041	
	MPLX LP 4.900% 04/15/2058 DD 02/08/18	89,840	71,015	
	PFIZER INC 3.900% 03/15/2039 DD 03/11/19	86,981	70,970	
	FORTIVE CORP 4.300% 06/15/2046 DD 06/15/17	95,413	70,732	
	SOUTHERN CALIFORNIA EDISON CO 4.000% 04/01/2047 DD 03/24/17	86,205	70,608	
	VIRGINIA ELECTRIC AND POWER CO 4.625% 05/15/2052 DD 05/31/22	78,890	70,395	
	DIAMONDBACK ENERGY INC 4.250% 03/15/2052 DD 03/17/22	86,233	70,284	
	CONSOLIDATED EDISON CO OF NEW 6.150% 11/15/2052 DD 11/14/22	64,604	70,051	
	INTERCONTINENTAL EXCHANGE INC 4.950% 06/15/2052 DD 05/23/22	74,164	69,677	
	BOEING CO/THE 3.750% 02/01/2050 DD 07/31/19	98,789	69,184	
	BAT CAPITAL CORP 3.734% 09/25/2040 DD 09/25/20	100,000	68,411	
	JOHNSON CONTROLS INTERNATIONAL STEP 07/02/2064 DD 07/02/2016	86,913	66,862	
	VERIZON COMMUNICATIONS INC 3.700% 03/22/2061 DD 03/22/21	93,912	66,838	
	GILEAD SCIENCES INC 2.600% 10/01/2040 DD 09/30/20	94,573	66,711	
	ENERGY TRANSFER LP 5.150% 02/01/2043 DD 01/22/13	74,747	66,493	
	BECTON DICKINSON & CO 4.669% 06/06/2047 DD 06/06/17	81,485	66,434	
	VIRGINIA ELECTRIC AND POWER CO 2.950% 11/15/2051 DD 11/22/21	86,113	66,273	
	ROGERS COMMUNICATIONS INC 4.350% 05/01/2049 DD 04/30/19	84,717	65,477	
	NORFOLK SOUTHERN CORP 3.155% 05/15/2055 DD 05/15/20	93,560	63,474	
	BP CAPITAL MARKETS AMERICA INC 3.001% 03/17/2052 DD 09/17/21	95,000	63,049	

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Corporate Obligations (Continued)				
		MORGAN STANLEY VAR RT 04/22/2042 DD 04/22/21	\$ 80,365	\$ 63,031
		METLIFE INC 4.050% 03/01/2045 DD 03/05/15	76,773	63,015
		ALTRIA GROUP INC 4.450% 05/06/2050 DD 05/06/20	96,380	62,711
		GILEAD SCIENCES INC 4.150% 03/01/2047 DD 09/20/16	78,457	62,345
		CITIGROUP INC VAR RT 01/24/2039 DD 01/24/18	74,966	62,313
		BANK OF AMERICA CORP VAR RT 07/22/2033 DD 07/22/22	65,000	61,920
		SUTTER HEALTH 3.161% 08/15/2040 DD 10/29/20	80,000	60,145
		QUALCOMM INC 4.300% 05/20/2047 DD 05/26/17	79,835	59,725
		NOVARTIS CAPITAL CORP 2.750% 08/14/2050 DD 02/14/20	83,055	59,488
		GLOBAL PAYMENTS INC 2.900% 11/15/2031 DD 11/22/21	63,830	59,433
		BAT CAPITAL CORP 7.750% 10/19/2032 DD 10/19/22	54,748	59,423
		COMCAST CORP 2.987% 11/01/2063 DD 05/01/22	96,239	59,239
		UNITEDHEALTH GROUP INC 3.700% 08/15/2049 DD 07/25/19	77,975	59,209
		PUGET SOUND ENERGY INC 3.250% 09/15/2049 DD 08/30/19	82,212	58,549
		ANHEUSER-BUSCH INBEV WORLDWIDE 4.375% 04/15/2038 DD 04/04/18	64,674	58,390
		JOHNSON CONTROLS INTERNATIONAL VAR RT 07/02/2044 DD 07/02/16	62,933	58,354
		EQUINOR ASA 3.625% 04/06/2040 DD 04/06/20	69,350	57,912
		JPMORGAN CHASE & CO VAR RT 07/25/2033 DD 07/25/22	60,000	57,401
		TRANE TECHNOLOGIES LUXEMBOURG 4.500% 03/21/2049 DD 03/21/19	76,301	57,119
		WILLIAMS COS INC/THE 5.100% 09/15/2045 DD 03/03/15	68,485	57,063
		ONEOK INC 7.150% 01/15/2051 DD 05/07/20	52,362	56,181
		TOTALENERGIES CAPITAL INTERNAT 3.386% 06/29/2060 DD 06/29/20	71,889	56,142
		CIGNA GROUP/THE 4.800% 08/15/2038 DD 08/15/19	59,201	55,858
		SHELL INTERNATIONAL FINANCE BV 3.750% 09/12/2046 DD 09/12/16	76,605	55,602
		SOUTHERN CO GAS CAPITAL CORP 3.150% 09/30/2051 DD 09/10/21	84,247	55,477
		MASSACHUSETTS INSTITUTE OF TEC 2.989% 07/01/2050 DD 12/20/19	75,017	54,986

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Corporate Obligations (Continued)				
	PACIFIC GAS AND ELECTRIC CO 4.500% 07/01/2040 DD 07/02/20	\$ 79,540	\$ 54,981	
	PFIZER INC 4.000% 12/15/2036 DD 11/21/16	59,676	54,968	
	RAYTHEON TECHNOLOGIES CORP 4.625% 11/16/2048 DD 08/16/18	77,079	54,467	
	HESS CORP 6.000% 01/15/2040 DD 12/14/09	48,982	54,216	
	TRANE TECHNOLOGIES GLOBAL HOLD 4.300% 02/21/2048 DD 02/21/18	69,754	54,143	
	BP CAPITAL MARKETS AMERICA INC 3.000% 02/24/2050 DD 02/24/20	64,895	53,828	
	BHP BILLITON FINANCE USA LTD 5.000% 09/30/2043 DD 09/30/13	64,959	53,636	
	ROGERS COMMUNICATIONS INC 144A 4.500% 03/15/2042 DD 03/11/22	64,348	53,390	
	ECOLAB INC 2.700% 12/15/2051 DD 12/15/21	84,792	53,299	
	WELLS FARGO & CO VAR RT 04/04/2051 DD 03/30/20	69,374	53,225	
	SOUTHERN CALIFORNIA EDISON CO 5.450% 06/01/2052 DD 05/23/22	54,661	52,899	
	HOME DEPOT INC/THE 3.125% 12/15/2049 DD 01/13/20	78,869	52,818	
	COREBRIDGE FINANCIAL INC 144A 4.400% 04/05/2052 DD 04/05/22	63,044	51,913	
	AMGEN INC 4.563% 06/15/2048 DD 12/15/16	62,451	51,515	
	GOLDMAN SACHS GROUP INC/THE VAR RT 10/21/2032 DD 10/21/21	65,000	51,498	
	BANK OF AMERICA CORP VAR RT 10/20/2032 DD 10/20/21	65,000	51,093	
	KRAFT HEINZ FOODS CO 5.200% 07/15/2045 DD 07/15/16	54,050	50,978	
	DTE ELECTRIC CO 3.650% 03/01/2052 DD 02/24/22	64,763	50,671	
	VISA INC 4.300% 12/14/2045 DD 12/14/15 08/08/22	60,190	50,499	
	APPLE INC 4.100% 08/08/2062 DD 08/08/22	59,789	50,263	
	NATIONAL RURAL UTILITIES COOPE 4.300% 03/15/2049 DD 01/31/19	68,755	49,980	
	NEW YORK LIFE INSURANCE C 144A 4.450% 05/15/2069 DD 04/04/19	59,567	49,832	
	LOCKHEED MARTIN CORP 5.900% 11/15/2063 DD 10/24/22	44,613	48,729	
	UNITEDHEALTH GROUP INC 5.875% 02/15/2053 DD 10/28/22	44,919	48,690	
	JPMORGAN CHASE & CO VAR RT 04/22/2052 DD 04/22/21	70,000	47,903	
	NIKE INC 3.875% 11/01/2045 DD 10/29/15	54,867	47,736	
	COCA-COLA CO/THE 3.000% 03/05/2051 DD 03/05/21	63,961	47,699	

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Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year)
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(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	BOEING CO/THE 3.825% 03/01/2059 DD 02/15/19	\$ 70,936	\$ 47,569	
	SUNCOR ENERGY INC 6.800% 05/15/2038 DD 05/15/08	60,249	47,226	
	HALLIBURTON CO 4.750% 08/01/2043 DD 08/05/13	51,466	47,205	
	BRIGHTHOUSE FINANCIAL INC 3.850% 12/22/2051 DD 11/22/21	67,066	47,054	
	LOWE'S COS INC 4.450% 04/01/2062 DD 03/24/22	59,955	47,031	
	UNITEDHEALTH GROUP INC 4.950% 05/15/2062 DD 05/20/22	49,510	47,001	
	AMERICAN TOWER CORP 2.300% 09/15/2031 DD 09/27/21	48,699	46,810	
	SOUTHERN CALIFORNIA EDISON CO 3.450% 02/01/2052 DD 01/13/22	64,782	46,733	
	MASTERCARD INC 2.950% 03/15/2051 DD 03/04/21	64,384	46,399	
	BOEING CO/THE 3.375% 06/15/2046 DD 05/18/16	51,951	45,593	
	NORFOLK SOUTHERN CORP 4.150% 02/28/2048 DD 02/28/18	52,788	45,513	
	OVINTIV INC 6.625% 08/15/2037 DD 08/13/07	53,282	45,435	
	RAYTHEON TECHNOLOGIES CORP 4.500% 06/01/2042 DD 06/01/12	48,749	45,324	
	CITIGROUP INC VAR RT 04/24/2048 DD 04/25/17	53,921	45,310	
	LOCKHEED MARTIN CORP 3.800% 03/01/2045 DD 02/20/15	51,464	45,228	
	EXXON MOBIL CORP 3.452% 04/15/2051 DD 04/15/20	60,000	45,133	
	COMMONWEALTH EDISON CO 4.000% 03/01/2049 DD 02/19/19	54,402	44,872	
	NIKE INC 3.250% 03/27/2040 DD 03/27/20	54,656	44,814	
	UNION ELECTRIC CO 4.000% 04/01/2048 DD 04/06/18	54,762	44,482	
	BANK OF AMERICA CORP VAR RT 02/04/2033 DD 02/04/22	55,000	44,481	
	CONSOLIDATED EDISON CO OF NEW 4.300% 12/01/2056 DD 11/16/16	58,644	44,470	
	BRISTOL-MYERS SQUIBB CO 4.550% 02/20/2048 DD 02/20/20	50,745	44,357	
	ENERGY TRANSFER LP 5.750% 02/15/2033 DD 12/14/22	44,951	44,026	
	AMAZON.COM INC 4.250% 08/22/2057 DD 02/22/18	55,777	43,930	
	MCDONALD'S CORP 4.450% 09/01/2048 DD 08/15/18	53,186	43,814	
	NORFOLK SOUTHERN CORP 4.550% 06/01/2053 DD 06/13/22	49,993	43,801	
	EQUINOR ASA 3.700% 04/06/2050 DD 04/06/20	50,947	43,720	

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	UNITEDHEALTH GROUP INC 3.875% 08/15/2059 DD 07/25/19	\$ 54,737	\$ 43,288	
	AON GLOBAL LTD 4.600% 06/14/2044 DD 05/28/14	47,966	42,956	
	BAT CAPITAL CORP 3.984% 09/25/2050 DD 09/25/20	47,637	42,832	
	MIDAMERICAN ENERGY CO 4.250% 07/15/2049 DD 01/09/19	49,859	42,732	
	FEDEX CORP 4.550% 04/01/2046 DD 03/24/16	50,520	42,442	
	LEIDOS INC 2.300% 02/15/2031 DD 02/15/21	54,738	42,270	
	PACIFIC LIFE INSURANCE CO 144A VAR RT 10/24/2067 DD 10/24/17	52,649	41,902	
	SOUTHWESTERN PUBLIC SERVICE CO 3.150% 05/01/2050 DD 05/18/20	59,722	41,750	
	DOMINION ENERGY SOUTH CAROLINA 5.100% 06/01/2065 DD 05/22/15	51,497	41,270	
	GEORGIA POWER CO 4.750% 09/01/2040 DD 08/31/10	45,510	40,860	
	OVINTIV INC 6.500% 02/01/2038 DD 12/04/07	52,497	40,824	
	SOUTHERN CALIFORNIA EDISON CO 5.950% 02/01/2038 DD 01/22/08	51,631	40,558	
	ASTRAZENECA PLC 4.375% 08/17/2048 DD 08/17/18	41,207	40,264	
	CANADIAN NATIONAL RAILWAY CO 3.650% 02/03/2048 DD 02/06/18	48,555	40,169	
	AMGEN INC 4.400% 02/22/2062 DD 02/22/22	49,692	40,116	
	EXELON CORP 4.700% 04/15/2050 DD 04/01/20	55,034	39,648	
	ABBVIE INC 4.550% 03/15/2035 DD 09/15/20	48,786	39,450	
	FEDEX CORP 4.100% 02/01/2045 DD 01/09/15	49,837	38,952	
	T-MOBILE USA INC 3.000% 02/15/2041 DD 02/15/21	54,702	38,867	
	EVERGY KANSAS CENTRAL INC 3.250% 09/01/2049 DD 08/19/19	54,293	38,315	
	GLOBAL PAYMENTS INC 5.400% 08/15/2032 DD 08/22/22	39,933	38,238	
	AMERICAN TOWER CORP 3.100% 06/15/2050 DD 06/03/20	49,461	38,193	
	JOHNSON & JOHNSON 2.100% 09/01/2040 DD 08/25/20	44,209	38,113	
	KINDER MORGAN INC 5.300% 12/01/2034 DD 11/26/14	41,264	37,585	
	PUGET SOUND ENERGY INC 4.300% 05/20/2045 DD 05/26/15	60,439	37,536	
	PARAMOUNT GLOBAL 4.200% 05/19/2032 DD 05/19/20	40,334	36,961	

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	Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
Corporate Obligations (Continued)				
		NVIDIA CORP 3.500% 04/01/2040 DD 03/31/20	44,910	36,673
		COMCAST CORP 3.200% 07/15/2036 DD 07/19/16	38,173	36,647
		UNION ELECTRIC CO 3.900% 04/01/2052 DD 04/01/22	44,889	36,397
		OTIS WORLDWIDE CORP 3.362% 02/15/2050 DD 08/15/20	50,348	35,256
		ROYALTY PHARMA PLC 3.300% 09/02/2040 DD 03/02/21	48,485	34,905
		PUBLIC SERVICE CO OF NEW HAMPS 3.600% 07/01/2049 DD 06/28/19	39,253	34,731
		BOEING CO/THE 5.875% 02/15/2040 DD 07/28/09	44,298	33,800
		NORFOLK SOUTHERN CORP 3.050% 05/15/2050 DD 05/11/20	49,883	33,619
		WILLIS NORTH AMERICA INC 5.050% 09/15/2048 DD 09/10/18	40,246	33,564
		METLIFE INC 5.000% 07/15/2052 DD 07/11/22	34,940	33,328
		APPLE INC 3.750% 11/13/2047 DD 11/13/17	38,014	33,154
		EASTERN GAS TRANSMISSION & STO 4.600% 12/15/2044 DD 06/15/22	49,534	33,043
		BAYLOR SCOTT & WHITE HOLDINGS 2.839% 11/15/2050 DD 01/21/21	50,000	32,862
		UNITEDHEALTH GROUP INC 6.050% 02/15/2063 DD 10/28/22	29,646	32,788
		BOEING CO/THE 3.500% 03/01/2039 DD 02/15/19	42,547	32,580
		OGLETHORPE POWER CORP 3.750% 08/01/2050 DD 02/01/21	44,339	32,516
		UNITEDHEALTH GROUP INC 4.750% 05/15/2052 DD 05/20/22	34,685	32,491
		COMCAST CORP 2.937% 11/01/2056 DD 05/01/22	31,600	32,405
		BROADCOM INC 144A 4.926% 05/15/2037 DD 04/18/22	34,690	32,365
		VODAFONE GROUP PLC 4.375% 02/19/2043 DD 02/19/13	36,140	32,108
		QUALCOMM INC 6.000% 05/20/2053 DD 11/09/22	32,250	32,073
		FOX CORP 5.476% 01/25/2039 DD 01/25/20	35,506	32,005
		LOWE'S COS INC 4.250% 04/01/2052 DD 03/24/22	39,973	31,970
		LOCKHEED MARTIN CORP 5.700% 11/15/2054 DD 10/24/22	29,754	31,778
		CHARTER COMMUNICATIONS OPERATI 3.900% 06/01/2052 DD 03/04/21	47,789	31,561
		INTEL CORP 2.800% 08/12/2041 DD 08/12/21	45,274	31,553
		INTERCONTINENTAL EXCHANGE INC 2.650% 09/15/2040 DD 08/20/20	44,823	31,495

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	BERKSHIRE HATHAWAY FINANCE COR 4.250% 01/15/2049 DD 01/11/19	\$ 34,428	\$ 31,416	
	CONSOLIDATED EDISON CO OF NEW 06/15/2047 DD 06/08/17	47,336	31,050	
	MORGAN STANLEY VAR RT 01/25/2052 DD 01/25/21	50,000	31,027	
	CARGILL INC 144A 4.375% 04/22/2052 DD 04/22/22	34,849	30,573	
	CANADIAN NATURAL RESOURCES LTD 6.250% 03/15/2038 DD 03/19/07	35,400	29,829	
	WELLTOWER OP LLC 3.850% 06/15/2032 DD 03/31/22	34,982	29,804	
	ONCOR ELECTRIC DELIVERY CO LLC 2.700% 11/15/2051 DD 11/16/21	42,497	29,441	
	JPMORGAN CHASE & CO VAR RT 04/22/2042 DD 04/22/21	40,000	29,168	
	HOME DEPOT INC/THE 4.950% 09/15/2052 DD 09/19/22	29,594	28,936	
	WELLS FARGO & CO VAR RT 07/25/2033 DD 07/25/22	30,000	28,406	
	ORACLE CORP 3.950% 03/25/2051 DD 03/24/21	33,861	27,962	
	BOEING CO/THE 5.805% 05/01/2050 DD 05/04/20	40,180	27,931	
	CONOCOPHILLIPS CO 4.025% 03/15/2062 DD 09/15/22	34,221	27,832	
	COMCAST CORP 3.250% 11/01/2039 DD 11/05/19	25,528	27,410	
	S&P GLOBAL INC 144A 3.900% 03/01/2062 DD 03/18/22	33,693	27,314	
	HUMANA INC 4.950% 10/01/2044 DD 09/19/14	34,398	27,263	
	SHELL INTERNATIONAL FINANCE BV 3.000% 11/26/2051 DD 11/26/21	40,092	27,221	
	COMMONWEALTH EDISON CO 3.650% 06/15/2046 DD 06/27/16	31,375	26,759	
	BALTIMORE GAS AND ELECTRIC CO 2.900% 06/15/2050 DD 06/05/20	39,611	26,744	
	CANADIAN PACIFIC RAILWAY CO 3.000% 12/02/2041 DD 12/02/21	34,817	26,559	
	EQUINIX INC 3.400% 02/15/2052 DD 05/17/21	37,688	26,083	
	MASTERCARD INC 3.850% 03/26/2050 DD 03/26/20	29,873	25,344	
	SHELL INTERNATIONAL FINANCE BV 3.250% 04/06/2050 DD 04/06/20	35,492	25,293	
	MCDONALD'S CORP 4.200% 04/01/2050 DD 03/27/20	31,113	25,150	
	ALABAMA POWER CO 4.300% 01/02/2046 DD 01/13/16	32,388	25,047	
	JPMORGAN CHASE & CO VAR RT 02/22/2048 DD 02/22/17	31,302	24,705	

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Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	PACIFIC GAS AND ELECTRIC CO 5.900% 06/15/2032 DD 06/08/22	\$ 24,925	\$ 24,496	
	PECO ENERGY CO 3.000% 09/15/2049 DD 09/10/19	34,712	24,121	
	CANADIAN PACIFIC RAILWAY CO 3.100% 12/02/2051 DD 12/02/21	31,393	23,682	
	GEORGIA POWER CO 5.650% 03/01/2037 DD 03/13/07	26,392	23,585	
	CIGNA GROUP/THE 3.875% 10/15/2047 DD 04/15/20	27,681	23,428	
	CROWN CASTLE INC 4.150% 07/01/2050 DD 04/03/20	25,247	23,422	
	ALPHABET INC 1.900% 08/15/2040 DD 08/05/20	30,260	23,383	
	NEW YORK LIFE INSURANCE C 144A 3.750% 05/15/2050 DD 04/14/20	29,817	23,118	
	INTEL CORP 3.050% 08/12/2051 DD 08/12/21	35,752	22,850	
	DUKE ENERGY CORP 3.950% 08/15/2047 DD 08/10/17	25,495	22,840	
	TOTALENERGIES CAPITAL INTERNAT 2.986% 06/29/2041 DD 06/29/20	27,588	22,522	
	BP CAPITAL MARKETS AMERICA INC 2.772% 11/10/2050 DD 08/10/20	33,509	22,444	
	BP CAPITAL MARKETS AMERICA INC 3.060% 06/17/2041 DD 06/17/21	30,000	22,336	
	COREBRIDGE FINANCIAL INC 144A 3.900% 04/05/2032 DD 04/05/22	24,963	22,004	
	CHARTER COMMUNICATIONS OPERATI 4.800% 03/01/2050 DD 10/24/19	29,919	21,839	
	RIO TINTO FINANCE USA PLC 4.125% 08/21/2042 DD 08/21/12	24,553	21,668	
	TARGA RESOURCES CORP 4.200% 02/01/2033 DD 04/06/22	25,109	21,589	
	BROADCOM INC 144A 3.500% 02/15/2041 DD 01/19/21	25,779	21,566	
	ELEVANCE HEALTH INC 6.100% 10/15/2052 DD 11/04/22	19,998	21,484	
	CONSOLIDATED EDISON CO OF NEW 3.200% 12/01/2051 DD 12/02/21	30,000	20,905	
	NORTHERN STATES POWER CO/MN 2.900% 03/01/2050 DD 09/10/19	29,421	20,710	
	CANADIAN NATURAL RESOURCES LTD 6.450% 06/30/2033 DD 09/16/02	24,038	20,502	
	QUALCOMM INC 4.800% 05/20/2045 DD 05/20/15	26,753	19,825	
	SEMPRA ENERGY 4.000% 02/01/2048 DD 01/12/18	26,568	19,671	
	COMMONWEALTH EDISON CO 3.700% 03/01/2045 DD 03/02/15	27,163	19,570	
	AMERICAN TOWER CORP 1.875% 10/15/2030 DD 09/28/20	19,978	19,349	

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Corporate Obligations (Continued)				
	BERKSHIRE HATHAWAY ENERGY CO 5.150% 11/15/2043 DD 11/08/13	\$ 23,823	\$ 19,130	
	INTERCONTINENTAL EXCHANGE INC 5.200% 06/15/2062 DD 05/23/22	20,623	19,072	
	ALTRIA GROUP INC 3.700% 02/04/2051 DD 02/04/21	29,780	18,926	
	CONSTELLATION BRANDS INC 5.250% 11/15/2048 DD 10/29/18	20,737	18,866	
	HESS CORP 5.600% 02/15/2041 DD 08/10/10	19,771	18,847	
	WALT DISNEY CO/THE 6.400% 12/15/2035 DD 06/15/19	22,938	18,671	
	NISOURCE INC 5.000% 06/15/2052 DD 06/10/22	19,923	18,276	
	UNITEDHEALTH GROUP INC 2.750% 05/15/2040 DD 05/18/20	24,271	18,259	
	AMERICAN INTERNATIONAL GROUP I 4.800% 07/10/2045 DD 07/10/15	25,101	18,065	
	EXXON MOBIL CORP 3.095% 08/16/2049 DD 08/16/19	23,586	18,044	
	WILLIAMS COS INC/THE 5.300% 08/15/2052 DD 08/08/22	19,991	18,001	
	COX COMMUNICATIONS INC 144A 4.800% 02/01/2035 DD 12/08/14	19,766	17,801	
	ASTRAZENECA PLC 3.000% 05/28/2051 DD 05/28/21	24,659	17,684	
	UNITEDHEALTH GROUP INC 4.250% 04/15/2047 DD 03/13/17	21,582	17,336	
	ENERGY TRANSFER LP 5.300% 04/01/2044 DD 04/03/14	20,338	16,985	
	NORFOLK SOUTHERN CORP 3.942% 11/01/2047 DD 05/01/18	21,095	16,933	
	RAYTHEON TECHNOLOGIES CORP 4.150% 05/15/2045 DD 05/04/15	18,524	16,779	
	ORACLE CORP 3.850% 04/01/2060 DD 04/01/20	24,904	16,742	
	ALTRIA GROUP INC 4.250% 08/09/2042 DD 08/09/12	22,768	16,398	
	CSX CORP 6.220% 04/30/2040 DD 03/24/10	17,837	16,301	
	UNION PACIFIC CORP 3.950% 08/15/2059 DD 08/05/19	19,841	15,720	
	TRANSCANADA PIPELINES LTD 6.100% 06/01/2040 DD 06/01/10	17,619	15,162	
	BROADCOM INC 144A 2.600% 02/15/2033 DD 01/19/21	15,689	15,075	
	BROADCOM INC 144A 3.137% 11/15/2035 DD 09/30/21	15,491	14,773	
	XCEL ENERGY INC 3.500% 12/01/2049 DD 11/07/19	19,935	14,695	
	EQUINOR ASA 3.250% 11/18/2049 DD 11/18/19	20,943	14,652	
	SOUTHERN CALIFORNIA EDISON CO 5.625% 02/01/2036 DD 01/31/06	18,499	14,649	

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Corporate Obligations (Continued)				
	MIDAMERICAN ENERGY CO 3.150% 04/15/2050 DD 10/15/19	\$ 19,894	\$ 14,260	
	PEPSICO INC 4.200% 07/18/2052 DD 07/18/22	14,982	13,767	
	NEVADA POWER CO 3.125% 08/01/2050 DD 01/30/20	19,992	13,624	
	CSL FINANCE PLC 144A 4.625% 04/27/2042 DD 04/27/22	14,998	13,557	
	ALABAMA POWER CO 3.000% 03/15/2052 DD 11/18/21	18,435	13,371	
	BALTIMORE GAS AND ELECTRIC CO 4.550% 06/01/2052 DD 06/06/22	14,973	13,363	
	BRISTOL-MYERS SQUIBB CO 4.350% 11/15/2047 DD 05/15/20	20,089	13,256	
	PACIFICORP 2.900% 06/15/2052 DD 07/09/21	19,847	13,166	
	ENTERPRISE PRODUCTS OPERATING 4.950% 10/15/2054 DD 10/14/14	18,164	12,575	
	DUKE ENERGY CORP 4.200% 06/15/2049 DD 06/07/19	10,809	11,921	
	NIKE INC 3.375% 03/27/2050 DD 03/27/20	15,637	11,811	
	CHARTER COMMUNICATIONS OPERATI 5.125% 07/01/2049 DD 07/10/19	13,025	11,407	
	GOLDMAN SACHS GROUP INC/THE VAR RT 02/24/2043 DD 01/24/22	15,000	11,093	
	SOUTHERN CALIFORNIA GAS CO 6.350% 11/15/2052 DD 11/14/22	10,165	10,997	
	BOEING CO/THE 3.900% 05/01/2049 DD 05/02/19	16,065	10,612	
	APPLE INC 2.650% 02/08/2051 DD 02/08/21	14,901	9,944	
	OVINTIV INC 7.200% 11/01/2031 DD 11/05/01	11,607	9,474	
	SOUTHERN CALIFORNIA EDISON CO 3.900% 03/15/2043 DD 03/07/13	11,794	9,300	
	COMCAST CORP 2.887% 11/01/2051 DD 05/01/22	13,845	9,043	
	KAISER FOUNDATION HOSPITALS 4.150% 05/01/2047 DD 05/03/17	11,167	8,533	
	TRANSCONTINENTAL GAS PIPE LINE 4.450% 08/01/2042 DD 07/13/12	10,415	8,531	
	AMERICAN WATER CAPITAL CORP 4.150% 06/01/2049 DD 05/13/19	11,901	8,303	
	COREBRIDGE FINANCIAL INC 144A 4.350% 04/05/2042 DD 04/05/22	9,997	8,251	
	EXELON CORP 144A 4.100% 03/15/2052 DD 03/07/22	9,993	8,046	
	PLAINS ALL AMERICAN PIPELINE L 6.650% 01/15/2037 DD 07/15/07	9,039	7,910	
	LOWE'S COS INC 4.250% 09/15/2044 DD 09/10/14	11,549	7,804	
	CROWN CASTLE INC 4.000% 11/15/2049 DD 08/15/19	7,788	7,609	

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(a)	(b)	(c)	(d)	(e)
Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value	
Corporate Obligations (Continued)				
	EVERSOURCE ENERGY 3.450% 01/15/2050 DD 01/10/20	\$ 10,676	\$ 7,307	
	HALLIBURTON CO 4.500% 11/15/2041 DD 11/14/11	4,289	4,193	
	ALABAMA POWER CO 4.300% 07/15/2048 DD 06/28/18	4,962	4,192	
	JOHNSON CONTROLS INTERNATIONAL 4.500% 02/15/2047 DD 02/07/17	5,986	4,139	
	AETNA INC 3.875% 08/15/2047 DD 08/10/17	4,431	3,866	
	ORACLE CORP 4.125% 05/15/2045 DD 05/05/15	4,571	3,792	
	AMERICAN WATER CAPITAL CORP 3.450% 05/01/2050 DD 04/14/20	5,220	3,696	
	COMMONWEALTH EDISON CO 4.350% 11/15/2045 DD 11/19/15	4,370	3,439	
Total Corporate Obligations		62,406,765	50,498,298	
U.S. Government Obligations				
	U S TREASURY BOND 3.000% 05/15/2047 DD 05/15/17	22,083,618	17,930,545	
	U S TREASURY BOND 3.000% 02/15/2047 DD 02/15/17	9,439,169	7,870,219	
	U S TREASURY BD PRIN STRIP 0.000% 08/15/2043 DD 08/15/13	4,443,816	4,006,425	
	U S TREASURY BOND 3.000% 02/15/2048 DD 02/15/18	4,996,351	3,240,272	
	US TREAS-CPI INFLAT 0.625%007/15/2032 DD 07/15/22	2,609,186	2,588,804	
	U S TREASURY BD PRIN STRIP 0.000% 02/15/2040 DD 02/16/10	2,667,745	2,541,448	
	U S TREASURY BOND 1.875% 11/15/2051 DD 11/15/21	3,125,988	2,463,115	
	U S TREASURY BOND 3.000% 08/15/2052 DD 08/15/22	1,578,055	1,572,480	
	U S TREASURY BOND 2.250% 02/15/2052 DD 02/15/22	1,356,674	1,228,833	
	U S TREASURY BOND 3.000% 08/15/2048 DD 08/15/18	1,493,608	1,076,660	
	U S TREASURY BOND 1.875% 02/15/2051 DD 02/15/21	1,496,954	1,033,362	
	U S TREASURY NOTE 2.750% 08/15/2032 DD 08/15/22	875,588	877,354	
	U S TREASURY BOND 1.625% 11/15/2050 DD 11/15/20	1,042,083	802,415	
	U S TREASURY BOND 3.000% 02/15/2049 DD 02/15/19	984,029	676,988	
	U S TREASURY NOTE 4.125% 11/15/2032 DD 11/15/22	286,150	281,661	
	US TREAS-CPI INFLAT 0.125%002/15/2052 DD 02/15/22	198,402	162,191	

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Held at End of Year)
 EIN: 13-4922641 Plan Number: 001

December 31, 2022

(a)	(b)	(c)	(d)	(e)
	Identity of Issuer, Borrower, Lessor, or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par, or Maturity Value	Cost	Current Value
U.S. Government Obligations (Continued)				
		U S TREASURY BOND 2.500% 02/15/2046 DD 02/15/16	\$ 50,530	\$ 41,483
Total U.S. Government Obligations			58,727,946	48,394,255
Total 401(h) Investments			271,784,419	277,222,346
Total			\$4,541,312,770	\$4,359,847,576

* A party-in-interest, as defined by ERISA.

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Acquired and Disposed of Within Year)

EIN: 13-4922641

Plan Number: 001

December 31, 2020

(a)	(b)	(c)	(d)
Identity of Issuer, Borrower, Lessor or Similar Party	Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	Cost of Acquisitions	Proceeds of Dispositions
	CITIBANK NA 3.650% 01/23/2024 DD 01/23/19	\$ (23,035,858)	\$ 22,939,202
	AUSTRALIA & NEW ZEALAND B 144A 4.400% 05/19/2026 DD 05/19/16	(22,799,165)	22,473,725
	UBS GROUP AG 144A 4.125% 09/24/2025 DD 09/24/15	(15,274,435)	15,115,716
	COMMONWEALTH BANK OF AUST 144A 4.500% 12/09/2025 DD 12/09/15	(15,217,293)	14,867,468
	GOLDMAN SACHS GROUP INC/THE VAR RT 02/24/2028 DD 01/24/22	(10,982,836)	10,995,205
	MYLAN INC 144A 3.125% 01/15/2023 DD 12/21/12	(10,216,784)	10,183,782
	ROCHE HOLDINGS INC 144A 2.076% 12/13/2031 DD 12/13/21	(10,254,554)	10,080,742
	UBS GROUP AG 144A VAR RT 08/05/2025 DD 08/05/22	(9,918,050)	9,842,230
	BANK OF AMERICA CORP VAR RT 04/02/2026 DD 03/22/22	(8,362,237)	8,272,009
	US TREAS-CPI INFLAT FWD 0.125% 04/15/2026 DD 04/15/21	(7,793,959)	7,854,875
	US TREAS INFLAT INDEXED NOTES 0.125% 04/15/2026 DD 04/30/21	(7,855,540)	7,804,741
	US TREAS INFLAT INDEXED NTS FW 0.125% 01/15/2030 DD 01/31/20	(7,838,861)	7,794,074
	US TREAS INFLAT INDEXED NOTES 0.125% 04/15/2026 DD 04/30/21	(7,806,302)	7,777,692
	BANK OF AMERICA CORP VAR RT 12/06/2025 DD 12/06/21	(7,930,982)	7,745,814
	COREBRIDGE FINANCIAL INC 144A 3.650% 04/05/2027 DD 04/05/22	(6,833,835)	6,697,580
	JPMORGAN CHASE & CO VAR RT 06/14/2025 DD 06/14/22	(6,282,893)	6,218,789
	US LONG BOND FUTURE (CBT) EXP JUN 22	-	6,212,537
	GOLDMAN SACHS GROUP INC/THE VAR RT 03/15/2028 DD 03/15/22	(6,145,000)	6,154,427
	META PLATFORMS INC 144A 3.500% 08/15/2027 DD 08/09/22	(6,009,339)	5,891,380
	CITIGROUP INC VAR RT 01/25/2026 DD 01/25/22	(5,470,000)	5,441,903
	SIEMENS FINANCIERINGSMAAT 144A 3.400% 03/16/2027 DD 03/16/17	(5,556,954)	5,274,298
	BROADCOM CORP / BROADCOM CAYMA 3.875% 01/15/2027 DD 01/15/18	(5,099,443)	5,072,730
	DEUTSCHE BANK AG/NEW YORK NY VAR RT 01/07/2028 DD 01/07/22	(5,192,105)	5,035,871
	COOPERATIEVE RABOBANK UA 144A VAR RT 04/06/2028 DD 04/06/22	(5,118,815)	5,009,146
	CITIGROUP INC VAR RT 02/24/2028 DD 02/18/22	(4,881,940)	4,780,751
	CITIGROUP INC VAR RT 03/17/2026 DD 03/17/22	(4,660,578)	4,632,099
	US LONG BOND FUTURE (CBT) EXP DEC 22	-	4,624,810
	US TREAS INFLAT INDEXED NOTES 0.375% 01/15/2027 DD 01/15/17	(4,172,897)	4,162,540

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Acquired and Disposed of Within Year)

EIN: 13-4922641

Plan Number: 001

December 31, 2020

(a) Identity of Issuer, Borrower, Lessor or Similar Party	(b) Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(c) Cost of Acquisitions	(d) Proceeds of Dispositions
	AMAZON.COM INC 3.300% 04/13/2027 DD 04/13/22	\$ (4,121,492)	\$ 4,117,422
	US TREASURY BOND FWD 3.125% 02/15/2043 DD 02/15/13	(3,975,384)	3,960,333
	BANK OF NOVA SCOTIA/THE 3.450% 04/11/2025 DD 04/12/22	(3,978,015)	3,957,018
	AT&T INC 144A 0.000% 11/27/2022 DD 11/27/07	(3,953,900)	3,942,056
	U S TREASURY BOND FWD 3.125% 02/15/2043 DD 02/15/13	(3,952,460)	3,930,899
	DUKE ENERGY PROGRESS LLC 3.400% 04/01/2032 DD 03/17/22	(3,981,771)	3,853,821
	MEXICO GOVERNMENT INTERNATIONA 3.500% 02/12/2034 DD 01/12/22	(3,965,967)	3,775,990
	JPMORGAN CHASE & CO VAR RT 07/25/2028 DD 07/25/22	(3,705,000)	3,746,881
	BANK OF NOVA SCOTIA/THE 1.950% 02/02/2027 DD 01/10/22	(3,708,368)	3,667,099
	COREBRIDGE FINANCIAL INC 144A 3.850% 04/05/2029 DD 04/05/22	(3,806,387)	3,629,767
	MORGAN STANLEY VAR RT 02/18/2026 DD 02/18/22	(3,630,000)	3,576,149
	CITIGROUP INC VAR RT 04/08/2026 DD 04/08/20	(3,577,477)	3,459,995
	GSK CONSUMER HEALTHCARE C 144A 3.625% 03/24/2032 DD 03/24/22	(3,524,905)	3,432,610
	WELLS FARGO & CO VAR RT 06/17/2027 DD 06/17/19	(3,406,604)	3,324,996
	BNP PARIBAS SA 144A VAR RT 01/20/2028 DD 01/20/22	(3,330,960)	3,222,249
	BANK OF AMERICA CORP VAR RT 02/04/2028 DD 02/04/22	(3,121,892)	3,132,209
	KIMBERLY-CLARK DE MEXICO 144A 2.431% 07/01/2031 DD 07/01/20	(3,356,160)	3,113,534
	GSK CONSUMER HEALTHCARE C 144A 3.375% 03/24/2027 DD 03/24/22	(3,042,419)	2,979,679
	US TREASURY BOND 3.625% 08/15/2043 DD 08/15/13	(2,988,829)	2,958,427
	U S TREASURY BOND FWD 3.625% 08/15/2043 DD 08/15/13	(2,952,071)	2,937,590
	JPMORGAN CHASE & CO VAR RT 04/26/2026 DD 04/26/22	(2,930,000)	2,933,135
	CINTAS CORP NO 2 4.000% 05/01/2032 DD 05/03/22	(2,882,617)	2,891,379
	MIZUHO FINANCIAL GROUP INC VAR RT 05/22/2027 DD 02/22/21	(2,885,364)	2,815,754
	ADVANCED MICRO DEVICES INC 3.924% 06/01/2032 DD 06/09/22	(2,880,000)	2,808,704
	CAPITAL ONE FINANCIAL CORP VAR RT 05/10/2028 DD 05/09/22	(2,766,313)	2,793,037
	PACIFIC GAS AND ELECTRIC CO 4.550% 07/01/2030 DD 07/02/20	(3,140,066)	2,789,409
	AMAZON.COM INC 3.150% 08/22/2027 DD 02/22/18	(2,770,755)	2,784,115

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Acquired and Disposed of Within Year)

EIN: 13-4922641

Plan Number: 001

December 31, 2020

(a) Identity of Issuer, Borrower, Lessor or Similar Party	(b) Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(c) Cost of Acquisitions	(d) Proceeds of Dispositions
	ANZ NEW ZEALAND INT'L LTD 144A 2.166% 02/18/2025 DD 02/18/22	\$ (2,804,615)	\$ 2,743,228
	WORKDAY INC 3.500% 04/01/2027 DD 04/01/22	(2,786,229)	2,742,750
	JPMORGAN CHASE & CO VAR RT 09/22/2027 DD 09/22/21	(2,670,414)	2,684,238
	STATE STREET CORP VAR RT 02/07/2028 DD 02/07/22	(2,749,613)	2,610,924
	S&P GLOBAL INC 144A 2.450% 03/01/2027 DD 03/18/22	(2,571,506)	2,549,586
	SANTANDER HOLDINGS USA INC VAR RT 01/06/2028 DD 01/06/22	(2,587,449)	2,412,289
	AMGEN INC 3.350% 02/22/2032 DD 02/22/22	(2,349,254)	2,372,501
	JPMORGAN CHASE & CO VAR RT 02/24/2028 DD 02/24/22	(2,320,000)	2,312,384
	CANADIAN IMPERIAL BANK OF COMM 3.450% 04/07/2027 DD 04/07/22	(2,306,934)	2,243,305
	US TREASURY BOND FWD 2.750% 11/15/2042 DD 11/15/12	(2,126,128)	2,107,725
	APPLE INC 3.250% 08/08/2029 DD 08/08/22	(2,297,148)	2,106,924
	U S TREASURY BOND FWD 2.750% 11/15/2042 DD 11/15/12	(2,103,795)	2,095,116
	WORKDAY INC 3.700% 04/01/2029 DD 04/01/22	\$(2,112,357)	\$2,067,435
	COREBRIDGE FINANCIAL INC 144A 3.500% 04/04/2025 DD 04/05/22	(2,076,566)	2,064,558
	CITIGROUP INC VAR RT 05/24/2028 DD 05/24/22	(2,045,000)	2,052,908
	TORONTO-DOMINION BANK/THE 2.800% 03/10/2027 DD 03/10/22	(2,055,901)	2,034,265
	PHILIP MORRIS INTERNATIONAL IN 5.125% 11/17/2027 DD 11/17/22	(1,999,264)	2,015,756
	WELLS FARGO & CO VAR RT 04/25/2026 DD 04/25/22	(2,025,000)	1,999,699
	NATIONAL AUSTRALIA BANK L 144A 1.887% 01/12/2027 DD 01/12/22	(2,010,000)	1,988,011
	WORKDAY INC 3.800% 04/01/2032 DD 04/01/22	(2,010,804)	1,967,078
	US LONG BOND FUTURE (CBT) EXP SEP 22	-	1,966,936
	BANK OF NOVA SCOTIA/THE 2.951% 03/11/2027 DD 03/11/22	(2,037,962)	1,966,148
	US 10YR NOTE FUTURE (CBT) EXP DEC 22	-	1,919,145
	US BANCORP VAR RT 01/27/2028 DD 01/27/22	(1,925,000)	1,904,246
	US 2YR NOTE FUTURE (CBT) EXP DEC 22	-	1,872,565
	ISRAEL ELECTRIC CORP LTD 144A 3.750% 02/22/2032	(1,854,160)	1,870,788
	META PLATFORMS INC 144A 3.850% 08/15/2032 DD 08/09/22	(2,014,653)	1,807,406
	PG&E WILDFIRE RECOVERY FUNDING 4.722% 06/01/2039 DD 07/20/22	(1,809,886)	1,731,609
	DEUTSCHE BANK AG/NEW YORK NY VAR RT 07/14/2026 DD 07/14/22	(1,675,000)	1,681,159

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Acquired and Disposed of Within Year)

EIN: 13-4922641

Plan Number: 001

December 31, 2020

(a) Identity of Issuer, Borrower, Lessor or Similar Party	(b) Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(c) Cost of Acquisitions	(d) Proceeds of Dispositions
	MAGALLANES INC 144A 3.755% 03/15/2027 DD 03/15/22	\$ (1,685,000)	\$ 1,673,037
	US BANCORP VAR RT 07/22/2028 DD 07/22/22	(1,610,000)	1,608,233
	CARGILL INC 144A 3.625% 04/22/2027 DD 04/22/22	(1,601,483)	1,602,336
	US 5YR NOTE FUTURE (CBT) EXP JUN 22	-	1,599,065
	CAPITAL ONE FINANCIAL CORP VAR RT 07/26/2030 DD 07/27/22	(1,630,000)	1,572,701
	MITSUBISHI UFJ FINANCIAL GROUP VAR RT 09/12/2025 DD 09/13/22	(1,595,000)	1,572,633
	BANK OF AMERICA CORP VAR RT 03/15/2025 DD 03/15/19	(1,579,519)	1,541,170
	BANK OF NOVA SCOTIA/THE 1.450% 01/10/2025 DD 01/10/22	(1,553,958)	1,538,859
	INTEL CORP 4.000% 08/05/2029 DD 08/05/22	(1,591,044)	1,533,800
	TORONTO-DOMINION BANK/THE 1.950% 01/12/2027 DD 01/12/22	(1,499,585)	1,501,713
	SOUTHWEST GAS CORP 4.050% 03/15/2032 DD 03/22/22	(1,489,424)	1,493,336
	MONDELEZ INTERNATIONAL INC 2.625% 03/17/2027 DD 03/17/22	(1,501,147)	1,487,792
	MITSUBISHI UFJ FINANCIAL GROUP VAR RT 09/13/2028 DD 09/13/22	(1,465,658)	1,449,739
	TORONTO-DOMINION BANK/THE 4.108% 06/08/2027 DD 06/08/22	(1,460,000)	1,446,494
	PAYPAL HOLDINGS INC 5.050% 06/01/2052 DD 05/23/22	(1,420,397)	1,443,910
	ATHENE GLOBAL FUNDING 144A 1.716% 01/07/2025 DD 01/07/22	(1,500,837)	1,432,302
	NXP BV / NXP FUNDING LLC / NXP 4.400% 06/01/2027 DD 05/16/22	(1,402,836)	1,412,629
	WILLIS NORTH AMERICA INC 4.650% 06/15/2027 DD 05/19/22	(1,389,217)	1,364,508
	METROPOLITAN LIFE GLOBAL 144A 1.875% 01/11/2027 DD 01/11/22	(1,368,438)	1,363,904
	WEYERHAEUSER CO 3.375% 03/09/2033 DD 03/09/22	(1,447,538)	1,351,677
	GSK CONSUMER HEALTHCARE C 144A 3.024% 03/24/2024 DD 03/24/22	(1,353,831)	1,341,676
	CANADIAN IMPERIAL BANK OF COMM 3.945% 08/04/2025 DD 08/04/22	(1,370,000)	1,332,489
	AMERICAN AIRLINES 2021-1 CLASS 2.875% 01/11/2036 DD 11/08/21	(1,304,032)	1,270,141
	BANK OF NOVA SCOTIA/THE 2.450% 02/02/2032 DD 01/10/22	(1,402,754)	1,254,829
	BANK OF AMERICA CORP VAR RT 12/20/2028 DD 12/20/17	(1,276,744)	1,251,132
	KLA CORP 4.650% 07/15/2032 DD 06/23/22	(1,177,777)	1,211,001
	VITERRA FINANCE BV 144A 4.900% 04/21/2027 DD 04/21/22	(1,210,480)	1,197,300
	MITSUBISHI UFJ FINANCIAL GROUP VAR RT 07/20/2028 DD 07/20/22	(1,160,000)	1,188,286

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Acquired and Disposed of Within Year)

EIN: 13-4922641

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December 31, 2020

(a) Identity of Issuer, Borrower, Lessor or Similar Party	(b) Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(c) Cost of Acquisitions	(d) Proceeds of Dispositions
	GA GLOBAL FUNDING TRUST 144A 2.900% 01/06/2032 DD 01/06/22	\$ (1,314,289)	\$ 1,175,437
	S&P GLOBAL INC 144A 2.900% 03/01/2032 DD 03/18/22	(1,199,885)	1,171,467
	WELLS FARGO & CO VAR RT 03/24/2028 DD 03/24/22	(1,209,233)	1,168,684
	NESTLE HOLDINGS INC 144A 4.125% 10/01/2027 DD 09/13/22	(1,149,195)	1,152,001
	ITC HOLDINGS CORP 144A 4.950% 09/22/2027 DD 09/22/22	(1,118,869)	1,125,566
	BANK OF MONTREAL 1.500% 01/10/2025 DD 01/10/22	(1,044,446)	1,034,926
	APPLE INC 2.200% 09/11/2029 DD 09/11/19	(995,354)	1,023,621
	NATIONAL AUSTRALIA BANK LTD/NE 3.905% 06/09/2027 DD 06/09/22	(1,035,000)	1,022,981
	CITIZENS BANK NA/PROVIDENCE RI VAR RT 05/23/2025 DD 05/23/22	(1,025,000)	1,020,746
	HCA INC 144A 3.125% 03/15/2027 DD 03/09/22	(1,027,961)	1,005,301
	WESTPAC BANKING CORP 4.043% 08/26/2027 DD 05/26/22	(1,005,000)	1,002,576
	HUNTINGTON NATIONAL BANK/THE VAR RT 05/16/2025 DD 05/17/22	(975,000)	973,850
	COMMONWEALTH EDISON CO 3.150% 03/15/2032 DD 03/15/22	\$(973,752)	\$960,346
	MEXICO GOVERNMENT INTERNATIONA 4.875% 05/19/2033 DD 08/19/22	(941,981)	942,720
	NEXTERA ENERGY CAPITAL HOLDING 4.255% 09/01/2024 DD 08/05/22	(937,375)	939,817
	US 10YR NOTE FUTURE (CBT) EXP SEP 22	-	937,092
	BAXTER INTERNATIONAL INC 1.322% 11/29/2024 DD 05/29/22	(960,000)	907,066
	COLGATE-PALMOLIVE CO 3.250% 08/15/2032 DD 08/09/22	(887,133)	890,871
	PHILIPPINE GOVERNMENT INTERNAT 3.556% 09/29/2032 DD 03/29/22	(858,063)	826,654
	QUALCOMM INC 4.250% 05/20/2032 DD 05/09/22	(798,176)	800,916
	WASTE CONNECTIONS INC 4.200% 01/15/2033 DD 08/18/22	(792,838)	799,238
	EXPORT-IMPORT BANK OF KOREA 4.500% 09/15/2032 DD 09/15/22	(791,321)	791,954
	AMAZON.COM INC 3.600% 04/13/2032 DD 04/13/22	(788,554)	785,623
	INDONESIA GOVERNMENT INTERNATI 3.550% 03/31/2032 DD 03/31/22	(781,570)	765,309
	PHILIP MORRIS INTERNATIONAL IN 5.625% 11/17/2029 DD 11/17/22	(759,346)	762,994
	MORGAN STANLEY VAR RT 01/21/2028 DD 01/24/22	(760,000)	757,918
	MIZUHO FINANCIAL GROUP INC VAR RT 09/13/2033 DD 09/13/22	(760,000)	756,357
	DIAGEO CAPITAL PLC 5.200% 10/24/2025 DD 10/24/22	(714,056)	716,015

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Acquired and Disposed of Within Year)

EIN: 13-4922641

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December 31, 2020

(a) Identity of Issuer, Borrower, Lessor or Similar Party	(b) Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(c) Cost of Acquisitions	(d) Proceeds of Dispositions
	MIZUHO FINANCIAL GROUP INC VAR RT 09/13/2028 DD 09/13/22	\$ (715,000)	\$ 713,942
	GSK CONSUMER HEALTHCARE CAPITA 3.375% 03/24/2029 DD 09/24/22	(740,859)	706,458
	HUNTINGTON NATIONAL BANK/THE VAR RT 05/17/2028 DD 05/17/22	(705,000)	702,004
	ONCOR ELECTRIC DELIVERY C 144A 4.550% 09/15/2032 DD 09/08/22	(689,331)	695,437
	SOUTHERN CALIFORNIA EDISON CO 4.700% 06/01/2027 DD 05/23/22	(693,513)	679,119
	MORGAN STANLEY VAR RT 10/18/2028 DD 10/18/22	(650,000)	651,983
	S&P GLOBAL INC 144A 4.750% 08/01/2028 DD 02/01/22	(700,657)	648,150
	CARRIER GLOBAL CORP 2.700% 02/15/2031 DD 06/19/20	(663,347)	647,917
	JBS USA LUX SA / JBS USA 144A 6.750% 02/15/2028 DD 02/15/18	(618,750)	614,250
	MAGALLANES INC 144A 5.050% 03/15/2042 DD 03/15/22	(690,000)	593,352
	EQT CORP 144A 3.125% 05/15/2026 DD 05/17/21	(584,679)	588,020
	BANK OF NOVA SCOTIA/THE 5.250% 12/06/2024 DD 12/06/22	(564,480)	566,751
	CITIGROUP INC VAR RT 03/17/2033 DD 03/17/22	(590,646)	566,650
	ROYAL BANK OF CANADA 6.000% 11/01/2027 DD 10/25/22	(543,921)	548,695
	DIAMONDBACK ENERGY INC 6.250% 03/15/2033 DD 10/28/22	(537,689)	541,069
	INTACT FINANCIAL CORP 144A 5.459% 09/22/2032 DD 09/22/22	(540,000)	532,931
	QATAR GOVERNMENT INTERNAT 144A 4.817% 03/14/2049 DD 03/14/19	(574,837)	525,386
	CREDIT SUISSE GROUP AG 144A VAR RT 01/12/2029 DD 01/12/18	(503,562)	518,573
	BANK OF AMERICA CORP VAR RT 07/22/2028 DD 07/22/22	(500,000)	510,625
	HONEYWELL INTERNATIONAL INC 4.950% 02/15/2028 DD 11/02/22	(484,947)	492,091
	US 2YR NOTE FUTURE (CBT) EXP SEP 22	-	491,481
	BANK OF AMERICA CORP VAR RT 07/23/2029 DD 07/23/18	(521,576)	488,282
	BANK OF AMERICA CORP VAR RT 10/22/2025 DD 10/22/19	(484,355)	476,885
	BANK OF AMERICA CORP VAR RT 07/21/2028 DD 07/21/17	(500,427)	468,676
	FIFTH THIRD BANCORP VAR RT 04/25/2028 DD 04/25/22	(470,000)	462,714
	GOLDMAN SACHS GROUP INC/THE VAR RT 09/29/2025 DD 09/29/17	(454,219)	456,130
	MEXICO GOVERNMENT INTERNATIONA 3.500% 02/12/2034	(551,981)	440,850

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Acquired and Disposed of Within Year)

EIN: 13-4922641

Plan Number: 001

December 31, 2020

(a) Identity of Issuer, Borrower, Lessor or Similar Party	(b) Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(c) Cost of Acquisitions	(d) Proceeds of Dispositions
	BANK OF AMERICA CORP VAR RT 04/24/2028 DD 04/24/17	\$ (459,106)	\$ 435,811
	VERIZON COMMUNICATIONS INC 2.355% 03/15/2032 DD 03/15/22	(450,214)	427,592
	MIZUHO FINANCIAL GROUP INC VAR RT 05/22/2032 DD 02/22/21	(410,418)	421,076
	US 2YR NOTE FUTURE (CBT) EXP JUN 22	-	418,387
	PHILIPPINE GOVERNMENT INTERNAT 5.609% 04/13/2033 DD 10/13/22	(415,000)	410,435
	CREDIT SUISSE GROUP AG 144A VAR RT 07/15/2026 DD 08/12/22	(400,000)	404,436
	MONDELEZ INTERNATIONAL INC 3.000% 03/17/2032 DD 03/17/22	(426,840)	403,921
	CAPITAL ONE FINANCIAL CORP VAR RT 07/24/2026 DD 07/27/22	(395,000)	395,585
	INDONESIA GOVERNMENT INTERNATI 3.550% 03/31/2032	(378,415)	370,025
	ANGLO AMERICAN CAPITAL PL 144A 4.750% 03/16/2052 DD 03/16/22	(402,919)	360,484
	JPMORGAN CHASE & CO VAR RT 02/04/2027 DD 02/04/21	(354,294)	354,800
	NATIONAL RURAL UTILITIES COOPE 4.150% 12/15/2032 DD 08/17/22	(378,628)	348,327
	CHILE GOVERNMENT INTERNATIONAL 3.250% 09/21/2071	(415,419)	347,410
	CHILE GOVERNMENT INTERNATIONAL 3.500% 01/31/2034 DD 01/31/22	(344,955)	340,860
	CONOCOPHILLIPS CO 144A 3.758% 03/15/2042 DD 03/11/22	\$(365,339)	\$338,544
	US 10YR ULTRA FUTURE (CBT) EXP SEP 22	-	328,115
	CANADIAN IMPERIAL BANK OF COMM 3.600% 04/07/2032 DD 04/07/22	(314,668)	324,243
	CITIZENS BANK NA/PROVIDENCE RI VAR RT 08/09/2028 DD 08/09/22	(340,000)	321,178
	GSK CONSUMER HEALTHCARE C 144A 4.000% 03/24/2052 DD 03/24/22	(343,574)	315,238
	PHILIPPINE GOVERNMENT INTERNAT 4.200% 03/29/2047	(320,000)	312,800
	S&P GLOBAL INC 144A 3.700% 03/01/2052 DD 03/18/22	(307,231)	280,209
	CITIGROUP INC VAR RT 01/29/2031 DD 01/29/20	(284,375)	261,300
	PERUVIAN GOVERNMENT INTERNATIO 2.783% 01/23/2031 DD 04/23/20	(226,200)	230,260
	MORGAN STANLEY VAR RT 07/20/2033 DD 07/20/22	(235,000)	222,609
	PIAGGIO & C SPA	(203,545)	220,576
	JPMORGAN CHASE & CO VAR RT 04/26/2033 DD 04/26/22	(240,000)	212,803
	TELEFONICA SA	(239,398)	205,011
	ASTRA INTERNATIONAL TBK PT	(172,494)	193,095
	ENEL FINANCE INTERNATIONA 144A 5.000% 06/15/2032 DD 06/15/22	(197,402)	182,054

American Electric Power System Retirement Plan

Schedule H (Form 5500), Line 4i - Schedule of Assets (Acquired and Disposed of Within Year)

EIN: 13-4922641

Plan Number: 001

December 31, 2020

(a) Identity of Issuer, Borrower, Lessor or Similar Party	(b) Description of Investment, Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value	(c) Cost of Acquisitions	(d) Proceeds of Dispositions
	KYNDRYL HOLDINGS INC 4.100% 10/15/2041 DD 04/15/22	\$ (251,872)	\$ 143,430
	TELENET GROUP HOLDING NV	(221,308)	138,493
	CHILE GOVERNMENT INTERNATIONAL 3.250% 09/21/2071 DD 09/21/21	(141,054)	136,384
	ECORODOVIAS INFRAESTRUTURA E L	(129,344)	121,536
	CHINA PETROLEUM & CHEMICAL COR HK/00386	(115,971)	112,196
	MAPFRE SA	(110,600)	99,484
	COVESTRO AG	(106,543)	98,108
	CARLSBERG AS	(95,962)	90,870
	JPMORGAN CHASE & CO VAR RT 04/22/2032 DD 04/22/21	(95,980)	88,320
	US TREAS INFLAT INDEXED NOTES 0.500% 01/15/2028 DD 01/31/18	(60,241)	61,577
	US TREAS-CPI INFLAT FWD 0.500% 01/15/2028 DD 01/31/18	(59,911)	60,254
	US TREAS INFLAT INDEXED 0.500% 01/15/2028 DD 01/15/18	(60,314)	59,928
	WORLDLINE SA/FRANCE	(61,124)	54,839
	US 10YR ULTRA FUTURE (CBT) EXP JUN 22	-	9,420
	ACCELLERON INDUSTRIES AG	(5,800)	7,665
	EUROAPI SA	(1,469)	1,684
	US 10YR ULTRA FUTURE (CBT) EXP DEC 22	-	(248,560)
	US 5YR NOTE FUTURE (CBT) EXP SEP 22	-	(1,025,118)
	US 10YR NOTE FUTURE (CBT) EXP JUN 22	-	(1,267,623)
	US 5YR NOTE FUTURE (CBT) EXP DEC 22	-	(4,324,487)
	US ULTRA BOND (CBT) EXP SEP 22	-	(5,384,289)
	US ULTRA BOND (CBT) EXP DEC 22	-	(10,412,893)
	US TREAS INFLAT INDEXED NOTES 0.125% 01/15/2030 DD 01/15/20	11,225,838	(11,184,332)
	US TREAS-CPI INFLAT FWD 0.500% 04/15/2024 DD 04/30/19	11,180,179	(11,291,605)
	US TREAS INFLAT INDEXED NOTES 0.500% 04/15/2024 DD 04/30/19	11,304,021	(11,302,925)
	US TREAS INFLAT INDEXED NOTES 0.500% 04/15/2024 DD 04/30/19	11,287,955	(11,306,516)
	US ULTRA BOND (CBT) EXP JUN 22	-	(17,166,950)
Total		\$(425,834,275)	\$398,720,308

Note: The information in this schedule has been certified as complete and accurate by Bank of New York Mellon/BNY Mellon, N.A., excluding information related to the partnership/joint venture interests.