

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 ABB INC. RETIREMENT SAVINGS PLAN	1b Three-digit plan number (PN) ▶ 302
	1c Effective date of plan 01/01/1991
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) ABB INC. 305 GREGSON DRIVE CARY, NC 27511	2b Employer Identification Number (EIN) 36-3100018 2c Plan Sponsor's telephone number 919-856-2360 2d Business code (see instructions) 335900

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.	09/13/2023	DANIEL HAGMANN
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE	Filed with authorized/valid electronic signature.	09/13/2023	DANIEL HAGMANN
	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

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

Form 5500 (2022)
v. 220413

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		5 22268
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).		
a(1) Total number of active participants at the beginning of the plan year		6a(1) 13390
a(2) Total number of active participants at the end of the plan year		6a(2) 13653
b Retired or separated participants receiving benefits		6b 69
c Other retired or separated participants entitled to future benefits.....		6c 7265
d Subtotal. Add lines 6a(2) , 6b , and 6c		6d 20987
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.		6e 86
f Total. Add lines 6d and 6e		6f 21073
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item).....		6g 20924
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....		6h 7
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)		7
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 2E 2F 2G 2J 2K 2S 2T 3H		
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) ☒ 3 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 A (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Insurance 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. ▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).	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	
A Name of plan ABB INC. RETIREMENT SAVINGS PLAN	B Three-digit plan number (PN) ▶ 302
C Plan sponsor's name as shown on line 2a of Form 5500 ABB INC.	D Employer Identification Number (EIN) 36-3100018

Part I	Information Concerning Insurance Contract Coverage, Fees, and Commissions	Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.
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1 Coverage Information:

(a) Name of insurance carrier TRANSAMERICA LIFE INSURANCE COMPANY
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(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
39-0989781	86231	MDA00977TR	21073	01/01/2022	12/31/2022

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.

(a) Total amount of commissions paid	(b) Total amount of fees paid
0	0

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid
--

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid
--

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4	Current value of plan's interest under this contract in the general account at year end.....	4	132456622
5	Current value of plan's interest under this contract in separate accounts at year end.....	5	0

6 Contracts With Allocated Funds:**a** State the basis of premium rates ▶

b	Premiums paid to carrier	6b	
c	Premiums due but unpaid at the end of the year	6c	
d	If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount..... Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity
(3) ☐ other (specify) ▶

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ ☐**7 Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)**

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee
(3) ☐ guaranteed investment (4) ☒ other ▶ STABLE VALUE

b	Balance at the end of the previous year	7b	
c	Additions: (1) Contributions deposited during the year	7c(1)	
	(2) Dividends and credits.....	7c(2)	
	(3) Interest credited during the year.....	7c(3)	
	(4) Transferred from separate account.....	7c(4)	
	(5) Other (specify below)	7c(5)	
	▶		
	(6) Total additions.....	7c(6)	
d	Total of balance and additions (add lines 7b and 7c(6))	7d	
e	Deductions:		
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)	
	(2) Administration charge made by carrier.....	7e(2)	
	(3) Transferred to separate account.....	7e(3)	
	(4) Other (specify below)	7e(4)	
	▶		
	(5) Total deductions.....	7e(5)	
f	Balance at the end of the current year (subtract line 7e(5) from line 7d)	7f	

Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- a** ☐ Health (other than dental or vision)
b ☐ Dental
c ☐ Vision
d ☐ Life insurance
e ☐ Temporary disability (accident and sickness)
f ☐ Long-term disability
g ☐ Supplemental unemployment
h ☐ Prescription drug
i ☐ Stop loss (large deductible)
j ☐ HMO contract
k ☐ PPO contract
l ☐ Indemnity contract
m ☐ Other (specify) ▶

9 Experience-rated contracts:

a Premiums: (1) Amount received	9a(1)		
(2) Increase (decrease) in amount due but unpaid	9a(2)		
(3) Increase (decrease) in unearned premium reserve	9a(3)		
(4) Earned ((1) + (2) - (3))		9a(4)	
b Benefit charges (1) Claims paid	9b(1)		
(2) Increase (decrease) in claim reserves	9b(2)		
(3) Incurred claims (add (1) and (2))		9b(3)	
(4) Claims charged		9b(4)	
c Remainder of premium: (1) Retention charges (on an accrual basis) --			
(A) Commissions	9c(1)(A)		
(B) Administrative service or other fees	9c(1)(B)		
(C) Other specific acquisition costs	9c(1)(C)		
(D) Other expenses	9c(1)(D)		
(E) Taxes	9c(1)(E)		
(F) Charges for risks or other contingencies	9c(1)(F)		
(G) Other retention charges	9c(1)(G)		
(H) Total retention		9c(1)(H)	
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)		9c(2)	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement		9d(1)	
(2) Claim reserves		9d(2)	
(3) Other reserves		9d(3)	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line 9c(2).)		9e	

10 Nonexperience-rated contracts:

a Total premiums or subscription charges paid to carrier	10a	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount. Specify nature of costs.	10b	

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

SCHEDULE A (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Insurance 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. ▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).	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		
A Name of plan ABB INC. RETIREMENT SAVINGS PLAN	B Three-digit plan number (PN) ▶	302
C Plan sponsor's name as shown on line 2a of Form 5500 ABB INC.	D Employer Identification Number (EIN) 36-3100018	

Part I	Information Concerning Insurance Contract Coverage, Fees, and Commissions	Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.
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1 Coverage Information:

(a) Name of insurance carrier
THE PRUDENTIAL INSURANCE COMPANY OF AMERICA

(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
22-1211670	68241	062251	21073	01/01/2022	12/31/2022

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.

(a) Total amount of commissions paid	(b) Total amount of fees paid
0	0

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4	Current value of plan's interest under this contract in the general account at year end.....	4	135953075
5	Current value of plan's interest under this contract in separate accounts at year end.....	5	0

6 Contracts With Allocated Funds:**a** State the basis of premium rates ▶

b	Premiums paid to carrier	6b	
c	Premiums due but unpaid at the end of the year	6c	
d	If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount..... Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity
(3) ☐ other (specify) ▶

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ ☐**7 Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)**

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee
(3) ☐ guaranteed investment (4) ☒ other ▶ STABLE VALUE

b	Balance at the end of the previous year	7b	
c	Additions: (1) Contributions deposited during the year	7c(1)	
	(2) Dividends and credits.....	7c(2)	
	(3) Interest credited during the year.....	7c(3)	
	(4) Transferred from separate account.....	7c(4)	
	(5) Other (specify below)	7c(5)	
	▶		
	(6) Total additions.....	7c(6)	
d	Total of balance and additions (add lines 7b and 7c(6))	7d	
e	Deductions:		
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)	
	(2) Administration charge made by carrier.....	7e(2)	
	(3) Transferred to separate account.....	7e(3)	
	(4) Other (specify below)	7e(4)	
	▶		
	(5) Total deductions.....	7e(5)	
f	Balance at the end of the current year (subtract line 7e(5) from line 7d)	7f	

Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- a** ☐ Health (other than dental or vision)
b ☐ Dental
c ☐ Vision
d ☐ Life insurance
e ☐ Temporary disability (accident and sickness)
f ☐ Long-term disability
g ☐ Supplemental unemployment
h ☐ Prescription drug
i ☐ Stop loss (large deductible)
j ☐ HMO contract
k ☐ PPO contract
l ☐ Indemnity contract
m ☐ Other (specify) ▶

9 Experience-rated contracts:

a Premiums: (1) Amount received	9a(1)		
(2) Increase (decrease) in amount due but unpaid	9a(2)		
(3) Increase (decrease) in unearned premium reserve.....	9a(3)		
(4) Earned ((1) + (2) - (3)).....		9a(4)	
b Benefit charges (1) Claims paid.....	9b(1)		
(2) Increase (decrease) in claim reserves	9b(2)		
(3) Incurred claims (add (1) and (2)).....		9b(3)	
(4) Claims charged		9b(4)	
c Remainder of premium: (1) Retention charges (on an accrual basis) --			
(A) Commissions	9c(1)(A)		
(B) Administrative service or other fees	9c(1)(B)		
(C) Other specific acquisition costs.....	9c(1)(C)		
(D) Other expenses	9c(1)(D)		
(E) Taxes	9c(1)(E)		
(F) Charges for risks or other contingencies	9c(1)(F)		
(G) Other retention charges.....	9c(1)(G)		
(H) Total retention.....		9c(1)(H)	
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)		9c(2)	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement.....		9d(1)	
(2) Claim reserves		9d(2)	
(3) Other reserves		9d(3)	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line 9c(2).).....		9e	

10 Nonexperience-rated contracts:

a Total premiums or subscription charges paid to carrier	10a	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount.	10b	

Specify nature of costs.

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

SCHEDULE A (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Insurance 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. ▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).	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		
A Name of plan ABB INC. RETIREMENT SAVINGS PLAN	B Three-digit plan number (PN) ▶	302
C Plan sponsor's name as shown on line 2a of Form 5500 ABB INC.	D Employer Identification Number (EIN) 36-3100018	

Part I	Information Concerning Insurance Contract Coverage, Fees, and Commissions	Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.
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1 Coverage Information:

(a) Name of insurance carrier STATE STREET BANK & TRUST COMPANY
--

(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
04-1867445	00000	98064	21073	01/01/2022	12/31/2022

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.

(a) Total amount of commissions paid 0	(b) Total amount of fees paid 0
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3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid
--

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid
--

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

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	(c) Amount	(d) Purpose	

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	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4 Current value of plan's interest under this contract in the general account at year end.....	4	134576566
5 Current value of plan's interest under this contract in separate accounts at year end.....	5	0

6 Contracts With Allocated Funds:**a** State the basis of premium rates ▶

b Premiums paid to carrier	6b	
c Premiums due but unpaid at the end of the year	6c	
d If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount..... Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity
(3) ☐ other (specify) ▶

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ ☐**7** Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee
(3) ☐ guaranteed investment (4) ☒ other ▶ STABLE VALUE

b Balance at the end of the previous year	7b	
c Additions: (1) Contributions deposited during the year	7c(1)	
(2) Dividends and credits.....	7c(2)	
(3) Interest credited during the year.....	7c(3)	
(4) Transferred from separate account.....	7c(4)	
(5) Other (specify below)	7c(5)	
▶		
(6) Total additions.....	7c(6)	
d Total of balance and additions (add lines 7b and 7c(6))	7d	
e Deductions:		
(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)	
(2) Administration charge made by carrier.....	7e(2)	
(3) Transferred to separate account.....	7e(3)	
(4) Other (specify below)	7e(4)	
▶		
(5) Total deductions.....	7e(5)	
f Balance at the end of the current year (subtract line 7e(5) from line 7d)	7f	

Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- a** ☐ Health (other than dental or vision)
b ☐ Dental
c ☐ Vision
d ☐ Life insurance
e ☐ Temporary disability (accident and sickness)
f ☐ Long-term disability
g ☐ Supplemental unemployment
h ☐ Prescription drug
i ☐ Stop loss (large deductible)
j ☐ HMO contract
k ☐ PPO contract
l ☐ Indemnity contract
m ☐ Other (specify) ▶

9 Experience-rated contracts:

a Premiums: (1) Amount received	9a(1)		
(2) Increase (decrease) in amount due but unpaid	9a(2)		
(3) Increase (decrease) in unearned premium reserve.....	9a(3)		
(4) Earned ((1) + (2) - (3)).....		9a(4)	
b Benefit charges (1) Claims paid.....	9b(1)		
(2) Increase (decrease) in claim reserves	9b(2)		
(3) Incurred claims (add (1) and (2)).....		9b(3)	
(4) Claims charged		9b(4)	
c Remainder of premium: (1) Retention charges (on an accrual basis) --			
(A) Commissions	9c(1)(A)		
(B) Administrative service or other fees	9c(1)(B)		
(C) Other specific acquisition costs.....	9c(1)(C)		
(D) Other expenses	9c(1)(D)		
(E) Taxes	9c(1)(E)		
(F) Charges for risks or other contingencies	9c(1)(F)		
(G) Other retention charges.....	9c(1)(G)		
(H) Total retention.....		9c(1)(H)	
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)		9c(2)	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement.....		9d(1)	
(2) Claim reserves		9d(2)	
(3) Other reserves		9d(3)	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line 9c(2).).....		9e	

10 Nonexperience-rated contracts:

a Total premiums or subscription charges paid to carrier	10a	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount.	10b	

Specify nature of costs.

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

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 ABB INC. RETIREMENT SAVINGS PLAN	B Three-digit plan number (PN) ▶	302
C Plan sponsor's name as shown on line 2a of Form 5500 ABB INC.	D Employer Identification Number (EIN) 36-3100018	

Part I Service Provider Information (see instructions)

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
PRINCIPAL LIFE INSURANCE COMPANY
42-0127290

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

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

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

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

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)

PRINCIPAL LIFE INSURANCE COMPANY

42-0127290

(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?
13 37 50 64	CONTRACT ADMINISTRATOR	1017384	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

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

GRANT THORNTON, LLP

36-6055558

(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	ACCOUNTANT	53000	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

FAEGRA DRINKER BIDDLE

41-0244008

(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?
29 50	LEGAL	21320	Yes ☒ No ☐	Yes ☐ No ☒	1275	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)

MORNINGSTAR INVESTMENT MANAGEMENT L

36-4317381

(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?
26 70	INV ADV, PARTICIPANTS	0	Yes ☒ No ☐	Yes ☐ No ☒	0	Yes ☒ No ☐

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

(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?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

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

(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?
			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
FAEGRA DRINKER BIDDLE	29 50	1275
(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.	
PRINCIPAL LIFE INSURANCE COMPANY 42-0127290	LEGAL	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
MORNINGSTAR INVESTMENT MANAGEMENT L	26 70	0
(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.	
PRINCIPAL LIFE INSURANCE COMPANY 42-0127290	14 BASIS POINTS ON ASSETS MANAGED BY MORNINGSTAR INVESTMENT MANAGEMENT LLC	
(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.
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For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan ABB INC. RETIREMENT SAVINGS PLAN	B Three-digit plan number (PN) ►	302
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 ABB INC.	D Employer Identification Number (EIN) 36-3100018	

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: SSGA RUSS SM/MD CP IX CL C FD		
b Name of sponsor of entity listed in (a): STATE STREET BANK AND TRUST COMPANY		
c EIN-PN 90-0337987-167	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 0
a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT INC TR PLUS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 90-0735883-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 38280853
a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT 2015 TR PLS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 90-0735891-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 0
a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT 2020 TR PLS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 90-0735899-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 67930106
a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT 2025 TR PLS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 90-0735963-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 146459234
a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT 2030 TR PLS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 90-0735964-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 166415497
a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT 2035 TR PLS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 90-0735965-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 140211015

a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT 2040 TR PLS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 90-0735971-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 102755256
a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT 2045 TR PLS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 90-0735972-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 87285150
a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT 2050 TR PLS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 90-0735976-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 68164682
a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT 2055 TR PLS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 90-0735978-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 44427657
a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT 2060 TR PLS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 45-3799736-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 24351416
a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TRGT RTMT 2065 TR PLS		
b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY		
c EIN-PN 82-6204383-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 5841957
a Name of MTIA, CCT, PSA, or 103-12 IE: BLACKROCK EQTY IDX NON-LEND M		
b Name of sponsor of entity listed in (a): BLACKROCK INST TRUST CO		
c EIN-PN 45-4368878-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 240222587
a Name of MTIA, CCT, PSA, or 103-12 IE: BLKRK US DEBT IDX NON-LND M		
b Name of sponsor of entity listed in (a): BLACKROCK INST TRUST CO		
c EIN-PN 45-4395662-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 79996844
a Name of MTIA, CCT, PSA, or 103-12 IE: BLACKROCK MSCACWI XUS IX NL R		
b Name of sponsor of entity listed in (a): BLACKROCK INST TRUST CO		
c EIN-PN 45-2912262-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 35742361
a Name of MTIA, CCT, PSA, or 103-12 IE: SSGA RUSSELL SM/MD CAP IN NL K		
b Name of sponsor of entity listed in (a): STATE STREET BANK AND TRUST COMPANY		
c EIN-PN 90-0337987-461	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 148670649

a Name of MTIA, CCT, PSA, or 103-12 IE: VANGUARD TAR RET 2070 TR PLUS

b Name of sponsor of entity listed in (a): VANGUARD FIDUCIARY TRUST COMPANY

c EIN-PN 88-6095930-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 323904
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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)
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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)
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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)
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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)
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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)
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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)
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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>ABB INC. RETIREMENT SAVINGS PLAN</u>	B Three-digit plan number (PN) ►	<u>302</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>ABB INC.</u>	D Employer Identification Number (EIN) <u>36-3100018</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		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....	1b(1)	23712601	19671330
(2) Participant contributions.....	1b(2)		
(3) Other.....	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....	1c(1)		
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common.....	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property)	1c(6)		
(7) Loans (other than to participants).....	1c(7)		
(8) Participant loans.....	1c(8)	32938442	33696613
(9) Value of interest in common/collective trusts.....	1c(9)	1753907334	1397079168
(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)		
(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	923535329	686247485
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)	392919999	402986263
(15) Other	1c(15)		

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	3127013705	2539680859

Liabilities

g Benefit claims payable	1g		
h Operating payables	1h		
i Acquisition indebtedness	1i		
j Other liabilities	1j		
k Total liabilities (add all amounts in lines 1g through 1j)	1k	0	0

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	3127013705	2539680859
---	-----------	------------	------------

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)	90681777	
(B) Participants	2a(1)(B)	99007182	
(C) Others (including rollovers)	2a(1)(C)	11716527	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		201405486
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)		
(B) U.S. Government securities	2b(1)(B)		
(C) Corporate debt instruments	2b(1)(C)		
(D) Loans (other than to participants)	2b(1)(D)		
(E) Participant loans	2b(1)(E)	1514438	
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		1514438
(2) Dividends: (A) Preferred stock	2b(2)(A)		
(B) Common stock	2b(2)(B)		
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	8307527	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		8307527
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		0
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		0

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		-294502149
(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)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		-192736955
c Other income	2c		876485
d Total income. Add all income amounts in column (b) and enter total	2d		-275135168
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	302748111	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)	31549	
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		302779660
f Corrective distributions (see instructions)	2f		2878
g Certain deemed distributions of participant loans (see instructions)	2g		-625
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)	74320	
(2) Contract administrator fees	2i(2)	1017384	
(3) Investment advisory and management fees	2i(3)		
(4) Other	2i(4)		
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		1091704
j Total expenses. Add all expense amounts in column (b) and enter total	2j		303873617
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d	2k		-579008785
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		8324061

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: GRANT THORNTON LLP

(2) EIN: 36-6055558

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		1865993

	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.)			
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?			
4k		X	
l Has the plan failed to provide any benefit when due under the plan?			
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
4m		X	
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)
ABB E-MOBILITY INC. RETIREMENT SAVINGS PLAN	87-1718240	001

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 _____.

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 ABB INC. RETIREMENT SAVINGS PLAN		B Three-digit plan number (PN) ► 302
C Plan sponsor's name as shown on line 2a of Form 5500 ABB INC.		D Employer Identification Number (EIN) 36-3100018
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): 42-0127290		
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
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
----------------	---

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: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____% 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 _____

Financial Statements and Report of
Independent Certified Public
Accountants

ABB Inc. Retirement Savings Plan

December 31, 2022 and 2021

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GRANT THORNTON LLP

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REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

Trustees
ABB Inc. Retirement Savings Plan

Scope and nature of the ERISA Section 103(a)(3)(C) audit

We have performed audits of the financial statements of ABB Inc. Retirement Savings 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) (ERISA Section 103(a)(3)(C) audit). The financial statements comprise the statements of net assets available for benefits as of December 31, 2022 and 2021, and the related statement of changes in net assets available for benefits for the years ended December 31, 2022 and 2021, 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 Rules and Regulations for Reporting and Disclosure under ERISA. 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, provided that the statements or information regarding assets so held are prepared and certified to by the bank or similar institution or insurance carrier in accordance with 29 CFR 2520.103-5 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA (qualified institution).

Management has obtained certifications from a qualified institution as of December 31, 2022 and 2021, and for the years ended December 31, 2022 and 2021, stating that the certified investment information, as described in Note 4 to the financial statements, is complete and accurate.

Opinion

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

- 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.
- The information in the accompanying financial statements related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an 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 (US 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 accounting principles generally accepted in the United States of America, 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 for one year after the date the financial statements are available to be issued.

Management is also responsible for maintaining a current plan instrument, including all plan amendments, 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 US 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 US 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 certification, 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 accounting principles generally accepted in the United States of America.

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 accounting principles generally accepted in the United States of America.

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 delinquent participant contributions for the year ended December 31, 2022 and schedule of assets (held at end of year) as of December 31, 2022 are presented for purposes of additional analysis and are not a required part of the financial statements but are supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Such supplementary 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 the auditing procedures applied in the audits of the financial statements and certain additional procedures. These additional procedures included 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 US 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 Department of Labor'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 Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

The information in the supplemental schedules related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Grant Thornton LLP

Raleigh, North Carolina
September 8, 2023

ABB Inc. Retirement Savings Plan

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

December 31,
(amounts in thousands)

	2022	2021
ASSETS		
Investments, at fair value	\$ 2,083,327	\$ 2,677,443
Investments, at contract value	<u>402,986</u>	<u>392,920</u>
Total investments	2,486,313	3,070,363
Employer contributions receivable	19,671	23,713
Notes receivable from participants	<u>33,697</u>	<u>32,938</u>
Total receivables	<u>53,368</u>	<u>56,651</u>
NET ASSETS AVAILABLE FOR BENEFITS	<u><u>\$ 2,539,681</u></u>	<u><u>\$ 3,127,014</u></u>

The accompanying notes are an integral part of these financial statements.

ABB Inc. Retirement Savings Plan

STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

Years ended December 31,
(amounts in thousands)

	<u>2022</u>	<u>2021</u>
Interest and dividend income	\$ 8,308	\$ 16,990
Net (depreciation) appreciation in fair value of other investments	<u>(486,363)</u>	<u>343,413</u>
Total investment (loss) income	<u>(478,055)</u>	<u>360,403</u>
Interest income on notes receivable from participants	<u>1,514</u>	<u>1,780</u>
Contributions		
Employer contributions	90,682	102,366
Participants contributions	99,007	100,344
Rollover contributions	<u>11,717</u>	<u>25,073</u>
Total contributions	<u>201,406</u>	<u>227,783</u>
Benefits paid to participants	302,782	358,746
Administrative expenses	<u>1,092</u>	<u>1,040</u>
Change in net assets available for benefits before transfers	(579,009)	230,180
Less net transfers to other plan (Note 1)	8,324	-
Plus net transfer from other plan (Note 1)	<u>-</u>	<u>1,584</u>
Net (decrease) increase	(587,333)	231,764
NET ASSETS AVAILABLE FOR BENEFITS		
Beginning of year	<u>3,127,014</u>	<u>2,895,250</u>
End of year	<u><u>\$ 2,539,681</u></u>	<u><u>\$ 3,127,014</u></u>

The accompanying notes are an integral part of these financial statements.

ABB Inc. Retirement Savings Plan
NOTES TO FINANCIAL STATEMENTS

December 31, 2022 and 2021
(amounts in thousands)

NOTE 1 - DESCRIPTION OF THE PLAN

ABB Inc. Retirement Savings Plan (RSP or the Plan) is a defined contribution plan covering all eligible full-time and part-time employees of ABB Inc. (the Company, the Employer or ABB). The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended (ERISA).

Effective January 1, 2018, the Thomas & Betts Corporation Employees' Investment Plan (the T&B Plan), the Baldor Electric Company Employees' Profit Sharing and Savings Plan (the Baldor Plan), and the Personal Retirement Investment and Savings Management Plan for Certain Represented Employees of ABB Inc. (PRISM) merged with and into the Plan, and the merged Plan was restated in four Parts.

- Part A of the merged Plan covers employees previously covered by the Plan, Part A of the T&B Plan, and the Baldor Plan;
- Part B of the merged Plan covers employees previously covered by Part B of the T&B Plan;
- Part C of the merged Plan covers employees previously covered by Part C of the T&B Plan; and
- Part D of the merged Plan covers employees previously covered by PRISM.

Participants should refer to the Plan document for a complete description of the Plan's provisions.

Delaware Charter Guarantee & Trust Company d/b/a Principal Trust Company (Principal) is the trustee for the Plan.

Effective April 1, 2022, a separate 401(k) plan for the employees of the electric vehicle charging business of the electrification business area (ABB E-mobility) was established. Prior to April 1, 2022, employees of ABB E-mobility were participants in the Plan, but as of that date, their participation in the Plan ceased. ABB E-mobility continues to be a legal entity of the Company. The ABB E-mobility employees were given a window from January 1, 2022 through July 31, 2022 during which they could elect to have their Plan account transferred to the ABB E-mobility plan. During 2022, total assets of \$8,324 were transferred to the ABB E-mobility 401(k) plan.

During 2021, the Company entered into agreements to divest the mechanical power transmission business of ABB Motors & Mechanical Inc. (Dodge) and the turbocharging business of the process automation business area (Turbo Systems). Effective November 1, 2021, Dodge was divested from the Plan. The 1,402 participants impacted were treated as terminations for Plan purposes and were given the option to rollover their funds. During 2022, the funds rolled out of the Plan related to this divestiture totaled approximately \$59,589. Effective October 3, 2022, Turbo Systems was divested from the Plan. The 110 participants impacted were treated as terminations for Plan purposes and were given the option to rollover their funds. During 2022, the funds rolled out of the Plan related to this divestiture totaled approximately \$4,498.

Eligibility

All salaried employees not covered by a collective bargaining agreement, certain employees that are covered by a collective bargaining agreement, certain domestic, nonunion hourly and certain non-U.S. resident (working for the Company in the United States) employees of the Company who are working as regular full-time or part-time employees are eligible to participate in the Plan at any time after the date of hire. One hour of service is required to participate in the Plan. The Plan excludes interns, leased employees, contractors and temporary workers. Regular full-time or part-time employees who are paid on a salaried basis by any foreign affiliates of the Company, as defined by the Plan document, are not eligible for nonelective Company contributions.

ABB Inc. Retirement Savings Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2022 and 2021

(amounts in thousands)

Contributions

Participants in Part A of the Plan can elect to make contributions to the Plan through payroll deductions in whole percentages from 1% to 50% of their annual compensation (as defined in the Plan document, subject to Internal Revenue Service (IRS) limitations) on a pretax or after-tax basis. Eligible employees are automatically enrolled in pretax contributions at 6% of eligible compensation 60 days after his or her hire date. Employee deferrals can be changed at any time by the participant. The Employer's matching contributions, where applicable, shall be equal to 25% or 75% as stipulated by the Plan document, of the participants' contributions made during the year, up to 6% of their annual compensation. The Company will also provide a nonelective safe harbor contribution calculated as 3% of the employee's eligible compensation. The Company will make an additional nonelective contribution to certain participants who merged into the Plan with the Baldor Plan (the Baldor Contribution) that is determined at the sole discretion of management. The Baldor Contribution is a receivable to Plan as of December 31, 2022 and 2021 and totaled \$19,626 and \$23,660, respectively. Participants may make a rollover into a Roth conversion account.

Participants in Part B of the Plan can elect to make contributions to the Plan through payroll deductions in whole percentages of up to 15% of their annual compensation (as defined in the Plan documents, subject to IRS limitations) on a pretax basis. The Employer's matching contributions, where applicable, shall be equal to 75% of the participants' contributions made during the year, up to 3% of their annual compensation and 50% of the participants' contributions above 3% and up to 5% of their annual compensation. The Company will also make a nonelective contribution calculated as 3% of the employees' compensation.

Participants in Part C of the Plan can elect to make contributions to the Plan through payroll deductions in whole percentages of up to 30% of their annual compensation (as defined in the Plan documents, subject to IRS limitations) on a pretax basis. A participant who returns from a temporary absence during which the participant performed services for the union, as defined by the Plan document, may make a special additional deferral election for the first payroll period of the first month following the temporary absence, not to exceed 60% of their compensation for that payroll period. The Employer's matching contributions, where applicable, shall be equal to 75% of the participants' contributions made during the year, up to 3% of their annual compensation and 50% of the participants' contributions above 3% and up to 5% of their annual compensation. The Company will also make a nonelective contribution calculated as 2% of the employees' compensation.

Participants in Part D of the Plan can elect to make contributions to the Plan through payroll deductions in whole percentages from 1% to 50% of their annual compensation (as defined in the Plan document, subject to IRS limitations) on a pretax or after-tax basis. The Employer's matching contributions, where applicable, shall be equal 0%, 25% or 50% of participants' contributions equal to 1%, 2%, 3%, 4%, 5%, or 6%, as determined by the respective union and as set forth in the Plan document. Certain employees are eligible for an additional Employer nonelective contribution of 3%. Employer contributions receivable related to the additional 3% matching contribution totaled \$45 and \$53 as of December 31, 2022 and 2021, respectively. Reference the Plan document for details regarding union specific Employer contributions.

Over age 50 catch-up contributions can be made by eligible participants in whole percentages from 1% to 100% of their annual compensation (as defined in the Plan document, subject to IRS limitations). Participants may also contribute amounts representing distributions from other qualified defined benefit or defined contribution plans (rollover). The Company may make a discretionary qualified nonelective contribution. No discretionary qualified nonelective contribution was made during 2022 or 2021.

ABB Inc. Retirement Savings Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2022 and 2021

(amounts in thousands)

Vesting

Effective January 1, 2018, all participant and Employer contributions and earning thereon are fully vested at all times.

Participant Accounts

Each participant's account is credited with the participant's contributions, matching Employer contributions, and an allocation of: (i) the annual Company contribution and (ii) Plan earnings or losses. Earnings or losses are based on participants' individual account balances and investment choices. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Payment of Benefits

Upon termination of employment, retirement or death, the participant or beneficiary may receive a lump-sum cash distribution, or monthly or annual installments, depending upon the nature of the event and total vested value of the participant's account, as defined by the Plan document, or may elect to have the payment of benefits deferred up to age 72 at which time distributions must commence.

Hardship Withdrawals

A participant may withdraw tax-deferred contributions for (a) medical expenses, (b) purchase of a principal residence, (c) payment of tuition expenses for educational fees and room and board expenses for post-secondary education, (d) to prevent eviction from principal residence or (e) any other reason set forth by the Commissioner of the IRS conditional upon satisfactory demonstration of the need and approval by the Company.

Notes Receivable from Participants

The Plan allows a participant to have a minimum loan of \$1,000, and the total amount of a participant's loan shall not exceed the lesser of:

- 50% of the participant's fully vested account balance reduced by any outstanding loan balance on the date the new loan is made; or
- \$50 reduced by the participant's highest outstanding loan balance of loans during the one-year period ending on the day before the new loan is made.

Loans are repaid from payroll deductions. Interest rates on the loans are equal to Prime +1% over the Prime Rate published in the Wall Street Journal on the date the loan is originated. The interest rate is fixed for the life of the loan and is limited to no more than 6% compounded annually for participants during a military leave of absence. Participants may elect to repay loans over a period of one to five years. If the purpose of the loan is to purchase the participant's principal residence, the loan may be repaid over a period of up to 20 years.

Notes receivable from participants represent participant loans that are recorded at their unpaid principal balance plus any accrued but unpaid interest. Interest income on notes receivable from participants is recorded when it is earned. Related fees are recorded as administrative expenses and are expensed when they are incurred. No allowance for credit losses has been recorded as of December 31, 2022 and 2021.

If a participant ceases to make loan repayments and the Plan administrator deems the participant loan to be a distribution, the participant loan balance is reduced, and a benefit payment is recorded.

ABB Inc. Retirement Savings Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2022 and 2021

(amounts in thousands)

Forfeitures

Forfeitures of terminated participants' non-vested accounts are used to either pay expenses of the Plan or reduce future employer contributions. Unallocated forfeitures as of December 31, 2022 and 2021, were \$199 and \$1,994, respectively. The Plan used \$2,052 and \$158 to reduce Employer contributions during 2022 and 2021, respectively. The Plan used \$200 and \$138 to reduce administrative expenses during 2022 and 2021, respectively.

Administrative Expenses

Administrative expenses are paid by the Plan or the Company, at the discretion of the Company. Investment related expenses are included in the net (depreciation) appreciation in fair value of investments.

Plan Termination

Although it has not expressed any intent to do so, the Company has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions of ERISA. In the event of Plan termination, participants will become 100% vested in their accounts.

NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

The accompanying financial statements have been prepared on the accrual basis of accounting.

Investment Valuation and Income Recognition

The Plan's investments are stated at fair value, except for the Income Fund (see Note 7) which is stated at contract value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 6 for discussion of fair value measurements.

As of December 31, 2022 and 2021, the Plan invested in synthetic investment contracts through the GSAM Stable Value Trust Fund (Income Fund) (see Note 7). Investment contracts, held by a defined contribution plan, are required to be reported at fair value. However, contract value is the relevant measurement attribute for that portion of the net assets available for benefits of a defined contribution plan attributable to fully benefit-responsive investment contracts because contract value is the amount participants would receive if they were to initiate permitted transactions under the terms of the Plan. Contract value represents contributions made under the contract, plus interest at the contract rate, less funds used to pay benefits and administrative expenses of the contract.

Purchases and sales of securities are recorded on a trade-date basis. Dividends are recorded on the ex-dividend date. Interest income is recorded when earned. Net (depreciation) appreciation includes the gains and losses on investments bought, sold, and held during the year.

Risks and Uncertainties

Investment securities are exposed to various risks such as interest rate, market and credit risks. Due to the level of risk associated with certain investment securities, 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 participants' account balances and the amounts reported in the statements of net assets available for benefits.

ABB Inc. Retirement Savings Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2022 and 2021

(amounts in thousands)

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States requires management to make estimates that affect the amounts reported in the financial statements, accompanying notes and supplemental schedules. Actual results could differ from those estimates.

Payment of Benefits

Benefits are recorded when paid.

NOTE 3 - INCOME TAX STATUS

The Internal Revenue Service (IRS) has determined and informed the Company by a letter dated February 17, 2016, that the Plan is designed in accordance with applicable sections of the Internal Revenue Code (IRC). Although the Plan has been amended and restated since receiving the determination letter, the Plan administrator believes that the Plan is designed, and is currently being operated, in compliance with the applicable requirements of the IRC and, therefore, believes that the Plan is qualified, and related trust is tax exempt. On December 17, 2021, the Company applied for an updated determination letter which has not been received as of the date of these financial statements.

Accounting principles generally accepted in the United States of America require Plan management to evaluate tax positions taken by the Plan and recognize a tax liability if the Plan has taken an uncertain position that more-likely-than-not would not be sustained upon examination by the IRS. As of December 31, 2022 and 2021, there are no uncertain positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

NOTE 4 - INFORMATION CERTIFIED BY TRUSTEE

The Plan administrator has elected the method of annual reporting compliance permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Accordingly, Principal Trust Company has certified that the following data included in the accompanying financial statements and supplemental schedules is complete and accurate:

- Investments, at fair value and contract value and notes receivable from participants as shown in the statements of net assets available for benefits as of December 31, 2022 and 2021.
- Interest and dividend income, net (depreciation) appreciation in fair value of other investments, and interest income on notes receivable from participants, as shown in the statements of changes in net assets available for benefits for the years ended December 31, 2022 and 2021.
- Schedule H, line 4i - schedule of assets (held at end of year) as of December 31, 2022.

NOTE 5 - FAIR VALUE MEASUREMENTS

Accounting Standards Codification (ASC) Topic 820, *Fair Value Measurement*, clarifies the definition of fair value for financial reporting, establishes a framework for measuring fair value and requires additional disclosures about the use of fair value measurements.

ABB Inc. Retirement Savings Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2022 and 2021

(amounts in thousands)

The hierarchy established under ASC 820 gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). As required by ASC 820, the Plan investments are classified within the fair value hierarchy based on the lowest level of input that is significant to the fair value measurement. The three levels of the fair value hierarchy under ASC 820, and its applicability to the Plan's investments, are described below:

- Level 1 - Unadjusted quoted prices in active markets that are accessible at the measurement date for identical, unrestricted assets or liabilities.
- Level 2 - Quoted prices for similar assets or liabilities, or inputs that are observable, either directly or indirectly, for substantially the full term through corroboration with observable market data. Level 2 includes investments valued at quoted prices adjusted for legal and contractual restrictions specific to the security.
- Level 3 - Pricing inputs are unobservable for the asset or liability, that is, inputs that reflect the reporting entity's own assumptions about the assumptions market participants would use in pricing the asset or liability. Level 3 includes private investments that are supported by little or no market activity.

The methods used to measure the fair value calculation may not be indicative of net realizable value or reflective of future fair values. Furthermore, while Plan management believes the valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

Following is a description of the valuation methodologies used for assets and liabilities measured at fair value. There have been no changes in the methodologies used as of December 31, 2022 and 2021.

Collective trusts - Valued at net asset value (NAV) of units held as reported by investment managers based on the fair value of the underlying assets less liabilities. There are currently no redemption restrictions or unfunded commitments on these investments. The NAV is used as the practical expedient to estimate fair value.

Mutual funds and money market fund - Valued at the fair value, based on quoted market prices in active markets, of shares held by the Plan at year-end. There are currently no redemption restrictions or unfunded commitments on these investments.

The following tables set forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2022 and 2021:

Investments at Fair Value at December 31, 2022					
	Level 1	Level 2	Level 3	NAV	Total
Collective trust funds	\$ -	\$ -	\$ -	\$ 1,397,079	\$ 1,397,079
Mutual funds	686,248	-	-	-	686,248
Total investments at fair value	<u>\$ 686,248</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 1,397,079</u>	<u>\$ 2,083,327</u>

ABB Inc. Retirement Savings Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2022 and 2021

(amounts in thousands)

	Investments at Fair Value at December 31, 2021				
	Level 1	Level 2	Level 3	NAV	Total
Collective trust funds	\$ -	\$ -	\$ -	\$ 1,753,907	\$ 1,753,907
Mutual funds	923,535	-	-	-	923,535
Total investments at fair value	<u>\$ 923,535</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ 1,753,907</u>	<u>\$ 2,677,443</u>

NOTE 6 - INVESTMENTS AT CONTRACT VALUE

As of December 31, 2022 and 2021, the Plan invested in the Income Fund which is a conservative fixed income separately managed portfolio that seeks to provide a stable rate of return with preservation of principal and liquidity as primary objectives. The underlying investments include fixed income securities held in various collective trusts and a pooled separate account that are wrapped by synthetic investment contracts issued by financial institutions and an insurance company and a money market fund held for liquidity purposes. Contract value is the relevant measurement attribute as these investment contracts are fully benefit-responsive. Contract value represents contributions plus earnings, less participant withdrawals and administrative expenses. Under the terms of the contracts, the crediting interest rates are rates negotiated by ABB with the issuers.

Certain events may limit the ability of the Income Fund to realize the contract value of investment contracts and may, therefore, result in payments to participants that reflect fair value rather than contract value. Such events include, but are not limited to, certain amendments to the Plan documents or the Income Fund's investment guidelines not approved by issuers of investment contracts, failure to comply with certain contract provisions, complete or partial Plan termination or merger with another plan, suspension or substantial reduction of Company contributions to the Plan, debt default by the Company, bankruptcy of the Company or other Company events that could cause substantial withdrawals from the Plan or the Income Fund, and the occurrence of certain prohibited transactions under ERISA. The Plan administrator does not believe that any events that have occurred that constitute market value events.

The Plan may terminate the investment in the Income Fund upon election and 10 days' notice.

NOTE 7 - PARTY-IN-INTEREST TRANSACTIONS

Principal provides certain administrative services to the Plan pursuant to a trust agreement between the Company and Principal. Principal receives revenue related to recordkeeping services provided to the Plan from various investment options. Such amounts will be allocated to the accounts of the participants that were invested in the fund(s) that generated the revenue.

Plan administrative expenses are charged directly to Plan participants. The Plan or Company may make a payment to Plan service providers for administrative expenses not covered by amounts charged directly to Plan participants. Notes receivable from participants are also considered party-in-interest transactions.

The transactions described are considered exempt party-in-interest transactions.

ABB Inc. Retirement Savings Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2022 and 2021

(amounts in thousands)

NOTE 8 - NONEXEMPT TRANSACTIONS

As reported on the supplemental schedule of delinquent participant contributions (Schedule H, line 4(a)), certain Plan contributions in 2018, 2020, 2021 and 2022 were not remitted to the trust within the time frame specified by the Department of Labor's Regulation 29 (CFR 2510.3-102), thus constituting nonexempt transactions between the Plan and the Company.

NOTE 9 - SUBSEQUENT EVENTS

Effective for Plan years beginning on and after January 1, 2023, the Employer will make an additional matching contribution to the Plan on behalf of each eligible participant in the amount, if any, necessary so that the total matching contribution credited to the Plan on behalf of the participant for the Plan year equals the maximum matching contribution the participant is eligible to receive under the Plan for that Plan year (True-up Contribution). For purposes of calculating the True-up Contribution, the 6% limit on compensation eligible for matching contributions will be applied to the participant's compensation for the Plan year. To be eligible for a True-up Contribution for a Plan year, the terms of the participant's employment must not be covered by a collective bargaining agreement or covered by a collective bargaining agreement which provides for the participant's participation in Part A of the Plan and receipt of any true-up contribution to which the participant would otherwise be entitled as further defined by the Plan document.

Effective February 7, 2023, the Plan's loan policy was amended to allow a rollover into or out of the Plan of an eligible participant qualified plan account which includes a loan account. If necessary to bring loan payments current or to align with variations in payroll schedules, the loan may be reamortized; however, in no event will the term exceed the original loan term.

Effective June 30, 2023, the Company's Board of Directors consented to divest the power conversion business of ABB Power Electronic Inc. (Mustang). The 315 participants impacted were treated as terminations for Plan purposes and were given the option to rollover their funds. From January 1, 2023 through July 31, 2023, the funds rolled out of the Plan related to this divestiture totaled approximately \$12,116.

Management evaluated subsequent events for the Plan through September 8, 2023, the date the financial statements were available to be issued. Management is not aware of any additional subsequent events that would require recognition or disclosure in the financial statements.

SUPPLEMENTAL SCHEDULES

ABB Inc. Retirement Savings Plan

SCHEDULE H, LINE 4(a) - SCHEDULE OF DELINQUENT PARTICIPANT CONTRIBUTIONS

Year ended December 31, 2022

For the Year Ended	Participant Contributions Transferred Late to Plan*	Total that Constitutes Nonexempt Prohibited Transactions			Total Fully Corrected Under VFCP and PTE 2002-51
		Contributions Not Corrected*	Contributions Corrected Outside VFCP*	Contributions Pending Correction in VFCP	
2018	\$ 6,159	\$ -	\$ 6,159	\$ -	\$ -
2020	\$ 32,221	\$ -	\$ 32,221	\$ -	\$ -
2021	\$ 1,794,206	\$ 1,468,919	\$ 325,287	\$ -	\$ -
2022	\$ 33,407	\$ 32,722	\$ 685	\$ -	\$ -

* This amount includes repayments of notes receivable from participants.

ABB Inc. Retirement Savings Plan

SCHEDULE H, LINE 4(i) - SCHEDULE OF ASSETS (HELD AT END OF YEAR)

December 31, 2022

(a)	(b) Identity of Issue	(c) Description of Investment	(d) Cost	(e) Current Value
	Goldman Sachs Stable Value Fund			
	State Street	Fixed Rate Contract	**	\$ 134,576,566
	Transamerica	Fixed Rate Contract	**	132,456,622
	Prudential	Fixed Rate Contract	**	135,953,075
		Total Goldman Sachs stable value fund		<u>402,986,263</u>
	Mutual Funds			
	Vanguard	Federal Money Market Investor Fund	**	8,601,113
	Vanguard	Vanguard US Growth Admiral Fd	**	286,357,041
	Vanguard	Vanguard Equity Income Adm	**	192,059,957
	Hartford Mutual Funds	Hartford Smallcap Growth Ia	**	76,677,335
	Alliance Bernstein	Ab Global Bond Fund I	**	43,349,964
	MFS	International Diversification Fund	**	79,202,075
		Total mutual funds		<u>686,247,485</u>
	Collective Trusts			
	Vanguard	Vanguard Target Ret Inc Tr Plu	**	38,280,853
	Vanguard	Vanguard Target Retirement 2020 Fund	**	67,930,106
	Vanguard	Vanguard Target Retirement 2025 Fund	**	146,459,234
	Vanguard	Vanguard Target Retirement 2030 Fund	**	166,415,497
	Vanguard	Vanguard Target Retirement 2035 Fund	**	140,211,015
	Vanguard	Vanguard Target Retirement 2040 Fund	**	102,755,256
	Vanguard	Vanguard Target Retirement 2045 Fund	**	87,285,150
	Vanguard	Vanguard Target Retirement 2050 Fund	**	68,164,682
	Vanguard	Vanguard Target Retirement 2055 Fund	**	44,427,657
	Vanguard	Vanguard Target Retirement 2060 Fund	**	24,351,416
	Vanguard	Vanguard Target Retirement 2065 Fund	**	5,841,957
	Vanguard	Vanguard Target Retirement 2070 Fund	**	323,904
	State Street Global Advisors	State Street Russell Sml/Mid C	**	148,670,649
	BlackRock Institutional Trust	Blackrock Equity Ind Non-Led M	**	240,222,587
	BlackRock Institutional Trust	Blackrock Us Debt Idx Nonled M	**	79,996,844
	BlackRock Institutional Trust	Blackrock Msci Acwi Exus Cl R/Blackrock MSCIACWI xUS lx NL F	**	35,742,361
		Total collective trusts		<u>1,397,079,168</u>
		Total investments		2,486,312,916
	Participant loans			
*	Participant loans, maturity dates to October 2042, and interest rates ranging from 4.25% to 8%		**	33,696,613
				<u>\$ 2,520,009,529</u>

* Party-in-interest

** Cost omitted as investments are fully participant-directed

SCHEDULE H, line 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)

SCHEDULE H, line 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)

ABB INC. RETIREMENT SAVINGS PLAN

EIN 36 3100018
 PLAN NUMBER 302
 PLAN YEAR 01/01/2022 TO 12/31/2022

(A)	(B) Identity of issuer, borrower, lessor or similar party.	(C) Description of investment including maturity date, rate of interest, collateral, par or maturity value.	(D) Cost	(E) Current Value
	Alliance Bernstein	Registered Investment Company AB Global Bond I Fund	\$ 0.00	\$ 43,349,963.82
	Blackrock Inst Trust Co	Common/Collective Trust BlackRock Eqty Idx Non-Lend M	\$ 0.00	\$240,222,586.59
	Blackrock Inst Trust Co	Common/Collective Trust BlackRock MSCIAQW XUS IX NIL R	\$ 0.00	\$ 35,742,361.43
	Blackrock Inst Trust Co	Common/Collective Trust Blkrk US Debt Idx Non-Lnd M	\$ 0.00	\$ 79,996,843.92
	State Street	Insurance Company General GSAM Stable Value	\$ 0.00	\$134,576,566.00
	The Prudential Insurance Company of	Insurance Company General GSAM Stable Value	\$ 0.00	\$135,953,075.00
	Transamerica Life Insurance Company	Insurance Company General GSAM Stable Value	\$ 0.00	\$132,456,622.00
	Hartford Mutual Funds	Registered Investment Company Hartford SmallCap Grth HLS IA	\$ 0.00	\$ 76,677,335.21
	MFS Investment Management	Registered Investment Company MFS Intl Diversification R4 Fd	\$ 0.00	\$ 79,202,075.33
	State Street Bank and Trust Company	Common/Collective Trust SSGA RUSSELL SM/MD CAP IN NIL K	\$ 0.00	\$148,670,648.90
	Vanguard Group	Registered Investment Company Vanguard Equity-Inc Adm Fund	\$ 0.00	\$192,059,957.34
	Vanguard	Registered Investment Company Vanguard Federal Money Mkt Investor fund	\$ 0.00	\$ 8,601,113.00
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust Vanguard Trgt Rtmt Inc Tr Plus	\$ 0.00	\$ 38,280,853.43
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust Vanguard Trgt Rtmt 2020 Tr Pls	\$ 0.00	\$ 67,930,106.47
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust Vanguard Trgt Rtmt 2025 Tr Pls	\$ 0.00	\$146,459,233.62

SCHEDULE H, line 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)

ABB INC. RETIREMENT SAVINGS PLAN

EIN 36 3100018
PLAN NUMBER 302
PLAN YEAR 01/01/2022 TO 12/31/2022

(A)	(B) Identity of issuer, borrower, lessor or similar party.	(C) Description of investment including maturity date, rate of interest, collateral, par or maturity value.	(D) Cost	(E) Current Value
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust Vanguard Trgt Rtmt 2030 Tr Pls	\$ 0.00	\$166,415,497.39
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust Vanguard Trgt Rtmt 2035 Tr Pls	\$ 0.00	\$140,211,014.68
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust Vanguard Trgt Rtmt 2040 Tr Pls	\$ 0.00	\$102,755,255.76
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust Vanguard Trgt Rtmt 2045 Tr Pls	\$ 0.00	\$ 87,285,149.52
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust Vanguard Trgt Rtmt 2050 Tr Pls	\$ 0.00	\$ 68,164,682.07
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust Vanguard Trgt Rtmt 2055 Tr Pls	\$ 0.00	\$ 44,427,657.27
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust Vanguard Trgt Rtmt 2060 Tr Pls	\$ 0.00	\$ 24,351,415.85
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust Vanguard Trgt Rtmt 2065 Tr Pls	\$ 0.00	\$ 5,841,956.86
	VANGUARD FIDUCIARY TRUST COMPANY	Common/Collective Trust VANGUARD TAR RET 2070 TR PLUS	\$ 0.00	\$ 323,904.23
	Vanguard Group	Registered Investment Company VANGUARD US GROWTH ADMIRAL FD	\$ 0.00	\$286,357,040.52
*	Participant Loans	Range of Interest Rates Rates Range From 0.00% To 9.25%	\$ 0.00	\$ 33,696,613.00