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

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.)
- [X] 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:
- [X] 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. CASH BALANCE PENSION PLAN

1b Three-digit plan number (PN) ▶ 301

1c Effective date of plan 01/01/1992

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.	09/20/2023	DANIEL HAGMANN
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

3a	Plan administrator's name and address [X] 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:	**4b**	EIN
a	Sponsor's name	**4d**	PN
c	Plan Name		
5	Total number of participants at the beginning of the plan year	**5**	8178
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)**	1535
a(2)	Total number of active participants at the end of the plan year	**6a(2)**	1335
b	Retired or separated participants receiving benefits	**6b**	1728
c	Other retired or separated participants entitled to future benefits	**6c**	4454
d	Subtotal. Add lines **6a(2)**, **6b**, and **6c**	**6d**	7517
e	Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.	**6e**	504
f	Total. Add lines **6d** and **6e**.	**6f**	8021
g	Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	**6g**	
h	Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	**6h**	0
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:

1B 1C 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)	[X]	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)	[X]	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)	[X]	**R** (Retirement Plan Information)
(2)	[ ]	**MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
(3)	[X]	**SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary

b General Schedules

(1)	[X]		**H** (Financial Information)
(2)	[ ]		**I** (Financial Information – Small Plan)
(3)	[ ]	0	**A** (Insurance Information)
(4)	[X]		**C** (Service Provider Information)
(5)	[X]		**D** (DFE/Participating Plan Information)
(6)	[ ]		**G** (Financial Transaction Schedules)

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

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

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

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

11c Enter the Receipt Confirmation Code for the 2022 Form M-1 annual report. If the plan was not required to file the 2022 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code_____

SCHEDULE SB (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Single-Employer Defined Benefit Plan Actuarial Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).

▶ **File as an attachment to Form 5500 or 5500-SF.**

OMB No. 1210-0110

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

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

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

A Name of plan
ABB INC. CASH BALANCE PENSION PLAN

B Three-digit plan number (PN) ▶ 301

C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF
ABB INC.

D Employer Identification Number (EIN)
36-3100018

E Type of plan: [X] Single [ ] Multiple-A [ ] Multiple-B

F Prior year plan size: [ ] 100 or fewer [ ] 101-500 [X] More than 500

Part I Basic Information

1 Enter the valuation date: Month 01 Day 01 Year 2022

2 Assets:

a Market value	2a	622625151
b Actuarial value	2b	617995130

3 Funding target/participant count breakdown

	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	2028	199869961	199869961
b For terminated vested participants	4729	189250950	189250950
c For active participants	1536	130081389	130081389
d Total	8293	519202300	519202300

4 If the plan is in at-risk status, check the box and complete lines (a) and (b) [ ]

a Funding target disregarding prescribed at-risk assumptions	4a	
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b	

5 Effective interest rate	5	5.37 %
6 Target normal cost		
a Present value of current plan year accruals	6a	0
b Expected plan-related expenses	6b	3720000
c Total (line 6a + line 6b)	6c	3720000

Statement by Enrolled Actuary

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

SIGN HERE

Signature of actuary

09/18/2023
Date

JOHN D STEELE
Type or print name of actuary

23-05326
Most recent enrollment number

WILLIS TOWERS WATSON US LLC
Firm name

203-326-5400
Telephone number (including area code)

3001 SUMMER STREET
FLOOR 5
STAMFORD, CT 06905
Address of the firm

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

Part II Beginning of Year Carryover and Prefunding Balances

		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	55338869	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	55338869	0
10	Interest on line 9 using prior year's actual return of 3.92 %	2169284	0
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		0
	b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of 5.53 %		0
	b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
	c Total available at beginning of current plan year to add to prefunding balance		0
	d Portion of (c) to be added to prefunding balance		0
12	Other reductions in balances due to elections or deemed elections	0	0
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	57508153	0

Part III Funding Percentages

14	Funding target attainment percentage	14	107.95 %
15	Adjusted funding target attainment percentage	15	114.18 %
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	113.63 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls

18 Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
			Totals ► 18(b)	0	18(c) 0

19	Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:		
	a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0
	b Contributions made to avoid restrictions adjusted to valuation date.	19b	0
	c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.	19c	0

20 Quarterly contributions and liquidity shortfalls:

a Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No

b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No

c If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year

(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

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

21 Discount rate:

a Segment rates:	1st segment: 4.75 %	2nd segment: 5.18 %	3rd segment: 5.92 %	☐ N/A, full yield curve used

b Applicable month (enter code)	**21b**	4
22 Weighted average retirement age	**22**	63

23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment. ☒ Yes ☐ No

25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment. ☐ Yes ☒ No

26 Demographic and benefit information

a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment. ☒ Yes ☐ No

b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ☒ Yes ☐ No

27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	**27**	

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

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

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):

a Target normal cost (line 6c)	**31a**	3720000
b Excess assets, if applicable, but not greater than line 31a	**31b**	3720000

32 Amortization installments:	Outstanding Balance	Installment
a Net shortfall amortization installment	0	0
b Waiver amortization installment	0	0

33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	**33**	
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)	**34**	0

	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	0	0

36 Additional cash requirement (line 34 minus line 35)	**36**	0
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	**37**	0
38 Present value of excess contributions for current year (see instructions)		
a Total (excess, if any, of line 37 over line 36)	**38a**	0
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	**38b**	0
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	**39**	0
40 Unpaid minimum required contributions for all years	**40**	0

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

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

SCHEDULE C (Form 5500)	Service Provider Information	OMB No. 1210-0110
Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	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.**	**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. CASH BALANCE PENSION PLAN

B Three-digit plan number (PN) ▶ 301

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).. . . . . [X] 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

HARBOURVEST 2007 DIRECT ASSOCIATES

77-0678213

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

HARBOURVEST PARTNERS LP

74-3130888

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

HARBOURVEST PARTNERS V-PARTNERSHIP

55-0897492

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

HARBOURVEST PARTNERS VI-PARTNERSHIP

04-3464297

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

OAKTREE CAPITAL MANAGEMENT LP

26-0189082

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

TRILANTIC CAPITAL MANAGEMENT LLC

26-4600829

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

WELLINGTON TRUST COMPANY NA

04-2755549

(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

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)

ALIGHT SOLUTIONS LLC

36-2235791

(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 64 50	NONE	1151662	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

WILLIS TOWERS WATSON US LLC

53-0181291

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
11 17 50	NONE	386530	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

INVESCO EMERGING MKTS EQUITY FUND

51-0423349

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 28 51	NONE	360382	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

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

DODGE & COX

94-1441976

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 28 51 52	NONE	238746	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

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

MUZINICH & CO., INC.

13-3472632

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 28 51	NONE	213733	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

ABB BUSINESS SERVICES

36-3100018

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 50	PLAN SPONSOR	212966	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

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

MARATHON

98-1669899

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 51	NONE	152674	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

NEUBERGER BERMAN INV. ADVISORS LLC

02-0654486

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 28 51 52	NONE	118250	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

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

THE BANK OF NEW YORK MELLON

13-5160382

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
21 50	NONE	111991	Yes [X] No [ ]	Yes [X] No [ ]	0	Yes [ ] No [X]

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)

FAEGRE, DRINKER & BIDDLE LLP

23-1423089

(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	NONE	79232	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

INSIGHT NORTH AMERICA LLC

82-0983489

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 28 51	NONE	56436	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

GRANT THORNTON

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	NONE	49324	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

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

PARAMETRIC PORTFOLIO ASSOCIATES LLC

20-0292745

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 28 51	NONE	33779	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

FIDELITY MANAGEMENT

04-2647786

(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 64 50	NONE	22377	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

BLOOMBERG

13-3417984

(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?
49 50	NONE	16379	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

Part I Service Provider Information (continued)

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

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

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

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

Part II Service Providers Who Fail or Refuse to Provide Information

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

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

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

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

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

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

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

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)

(complete as many entries as needed)

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

SCHEDULE D (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

DFE/Participating Plan Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).

▶ **File as an attachment to Form 5500.**

OMB No. 1210-0110

2022

This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

A Name of plan
ABB INC. CASH BALANCE PENSION PLAN

B Three-digit plan number (PN) ▶ 301

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: ABB INC. MASTER TRUST

b Name of sponsor of entity listed in (a): ABB INC.

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)
36-3100018-050	M	494334588

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

c EIN-PN	**d** Entity 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)

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

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b Name of plan sponsor	**c** EIN-PN

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b Name of plan sponsor	**c** EIN-PN

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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 01/01/2022 and ending 12/31/2022

A Name of plan
ABB INC. CASH BALANCE PENSION PLAN

B Three-digit plan number (PN) ▶ 301

C Plan sponsor's name as shown on line 2a of Form 5500
ABB INC.

D Employer Identification Number (EIN)
36-3100018

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)		
(2) Participant contributions	1b(2)		
(3) Other	1b(3)	0	0
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)		
(9) Value of interest in common/collective trusts	1c(9)		
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts	1c(11)	622624167	494334588
(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)		
(14) Value of funds held in insurance company general account (unallocated contracts)	1c(14)		
(15) Other	1c(15)		

		(a) Beginning of Year	(b) End of Year
1d Employer-related investments:			
(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	622624167	494334588
Liabilities			
g Benefit claims payable	1g		
h Operating payables	1h	443942	419738
i Acquisition indebtedness	1i		
j Other liabilities	1j		
k Total liabilities (add all amounts in lines 1g through1j)	1k	443942	419738
Net Assets			
l Net assets (subtract line 1k from line 1f)	1l	622180225	493914850

Part II Income and Expense Statement

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

Income		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: **(A)** Employers	2a(1)(A)		
(B) Participants	2a(1)(B)		
(C) Others (including rollovers)	2a(1)(C)		
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines **2a(1)(A), (B), (C),** and line **2a(2)**	2a(3)		0
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)		
(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)		
(F) Other	2b(1)(F)		
(G) Total interest. Add lines **2b(1)(A)** through **(F)**	2b(1)(G)		0
(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)		
(D) Total dividends. Add lines **2b(2)(A)**, **(B)**, and **(C)**	2b(2)(D)		0
(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)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		-88469976
(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)		
c Other income	2c		
d Total income. Add all **income** amounts in column (b) and enter total	2d		-88469976
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	35689593	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines **2e(1)** through **(3)**	2e(4)		35689593
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)	515086	
(2) Contract administrator fees	2i(2)	1174039	
(3) Investment advisory and management fees	2i(3)	1174000	
(4) Other	2i(4)	1242681	
(5) Total administrative expenses. Add lines **2i(1)** through **(4)**	2i(5)		4105806
j Total expenses. Add all **expense** amounts in column (b) and enter total	2j		39795399
Net Income and Reconciliation			
k Net income (loss). Subtract line **2j** from line **2d**	2k		-128265375
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

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

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

(1) [X] 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) [X] 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:

		Yes	No	Amount
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.)	4a		X	

		Yes	No	Amount
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)	4b		X	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)	4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)	4d		X	
e Was this plan covered by a fidelity bond?	4e	X		20000000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	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.)	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			
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.	4n			

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

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

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

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☒ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 481325.

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. CASH BALANCE PENSION PLAN

B Three-digit plan number (PN) ▶ 301

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): 04-3192613

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** 162

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**

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: 30.0 % Investment-Grade Debt: 40.0 % High-Yield Debt: 13.0 % Real Estate: 0.0 % Other: 17.0 %

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. Cash Balance Pension Plan

December 31, 2022 and 2021

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REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

Trustees
ABB Inc. Cash Balance Pension Plan

Scope and nature of the ERISA Section 103(a)(3)(C) audit
We have performed audits of the financial statements of the ABB Inc. Cash Balance Pension 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 and of accumulated plan benefits as of December 31, 2022 and 2021, and the related statements of changes in net assets available for benefits and of changes in accumulated plan benefits for the years then ended, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audits of the Plan's financial statements performed in accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's 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 then ended, stating that the certified investment information, as described in Note 5 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).

Grant Thornton LLP is the U.S. member firm of Grant Thornton International Ltd (GTIL). GTIL and each of its member firms are separate legal entities and are not a worldwide partnership.

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.

Grant Thornton LLP

Raleigh, North Carolina
September 15, 2023

ABB Inc. Cash Balance Pension Plan

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

December 31,

	2022	2021
ASSETS		
Plan interest in the ABB Inc. Master Trust, at fair value	$ 494,334,588	$ 622,624,167
Total assets	494,334,588	622,624,167
LIABILITIES		
Accrued expenses	(419,738)	(443,942)
Total liabilities	(419,738)	(443,942)
NET ASSETS AVAILABLE FOR BENEFITS	$ 493,914,850	$ 622,180,225

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

ABB Inc. Cash Balance Pension Plan

STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

Years ended December 31,

	2022	2021
Additions to (deductions from) net assets attributed to		
Change in plan interest in ABB Inc. Master Trust	$ (88,469,976)	$ 20,142,658
Benefits paid to participants	(35,689,593)	(43,774,616)
Administrative expenses	(4,105,806)	(1,912,603)
NET (DECREASE) INCREASE BEFORE TRANSFERS	(128,265,375)	(25,544,591)
Transfers from other ABB pension plans	-	107,264,326
Net assets available for benefits		
Beginning of year	622,180,225	540,460,460
End of year	$ 493,914,850	$ 622,180,225

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

ABB Inc. Cash Balance Pension Plan

STATEMENTS OF ACCUMULATED PLAN BENEFITS

December 31,

	2022	2021
Actuarial present value of accumulated plan benefits		
Vested benefits		
Participants currently receiving benefits	$ 243,870,571	$ 283,521,786
Other participants	266,804,944	367,625,069
Total vested benefits	510,675,515	651,146,855
TOTAL ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS	$ 510,675,515	$ 651,146,855

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

ABB Inc. Cash Balance Pension Plan

STATEMENTS OF CHANGES IN ACCUMULATED PLAN BENEFITS

Years ended December 31,

	2022	2021
Actuarial present value of accumulated plan benefits, beginning of year	$ 651,146,855	$ 571,977,933
Increase (decrease) during the year attributable to		
Plan experience	8,767,158	9,245,702
Changes in actuarial assumptions	(128,397,435)	(22,127,233)
Increase for interest due to decrease in discount period	14,848,530	11,228,547
Purchase of annuities to settle certain plan liabilities	-	3,392,301
Benefits paid	(35,689,593)	(43,774,616)
Transfers from other ABB pension plans	-	121,204,221
NET (DECREASE) INCREASE	(140,471,340)	79,168,922
Actuarial present value of accumulated plan benefits, end of year	$ 510,675,515	$ 651,146,855

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

NOTE 1 - PLAN DESCRIPTION

The ABB Inc. Cash Balance Pension Plan (the Plan) is a defined benefit pension plan covering substantially all salaried employees of ABB Inc. (the Company or Employer), the Plan Sponsor. A description of the Plan is included in the Plan document. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended (ERISA).

The Plan was frozen to new participants and for future service credits as of December 31, 2011. Active participants employed on December 31, 2011 were fully vested in their accrued account balance as of that date. Participants' accrued account balances will continue to grow at the Plan's stated interest rate until the participant terminates employment with the Company. As of December 31, 2011, participants will no longer accrue benefits based on compensation.

The Plan offers multiple options for payment including, lump-sum and various annuity options for participants, which have satisfied the vesting requirements under the Plan. A participant who attains age 72 will commence his or her benefit no later than April 1 of the calendar year, following calendar year in which he or she retires, or he or she turns 72, whichever is later.

Effective as of December 31, 2021, the Pension Plan for Hourly Employees of ABB Inc. and the Kuhlman Electric Corporation Salaried Employees' Pension Plan were merged into the Plan. These transfers increased net assets available for benefits at December 31, 2021 by $107,264 and increased the actuarial present value of accumulated plan benefits as of December 31, 2021 by approximately $121,204. The benefits of the participants associated with the mergers into the Plan did not change from their original plan provisions.

NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

Basis of Accounting

The accompanying financial statements have been prepared on the accrual basis of accounting in conformity with United States generally accepted accounting principles (US GAAP).

Use of Estimates

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

Payment of Benefits

Benefit payments to participants are recorded upon distribution.

Annuity Purchase

On September 22, 2021, the Plan received an annuity premium refund of $3,392 related to an annuity purchase executed on September 24, 2020.

Investment Valuation and Income Recognition

Investment managers have been granted discretionary authority concerning all purchases and sales of investments in the ABB Inc. Master Trust (the Master Trust) within the investment guidelines established

by the ABB Inc. U.S. Benefits Committee. The Plan's interest in the Master Trust and the interest in the net investment income or loss of the Master Trust has been reported to the Plan administrator by BNY Mellon, the trustee of the Plan.

The Master Trust's investments are reported at fair value as described in Note 4. Purchases and sales of securities by the Master Trust are recorded on a trade date basis. Dividend income is recorded on the ex-dividend date. Interest income is recorded when earned. Net (depreciation) appreciation includes the Master Trust's gains and losses on investments bought, sold, and held during the year.

Funding Policy

The Company shall make contributions to the Plan as shall be necessary under accepted actuarial principles to meet the requirements of ERISA. Employer contributions are based on an actuarial determination, which provides for funding (a) the annual normal cost for the current year and (b) an amount necessary to amortize the unfunded accrued liability.

The Plan has satisfied the minimum funding requirements of ERISA for the years ended December 31, 2022 and 2021.

Administrative Expenses

The Plan's expenses are paid either by the Plan, Master Trust, or the Company, as provided by the Plan document. Expenses that are paid directly by the Company are excluded from these financial statements. Certain expenses incurred in connection with the general administration of the Plan that are paid by the Plan are recorded as deductions in the accompanying statements of changes in net asset available for benefits. In addition, certain investment-related expenses are included in change in plan interest in the Master Trust as presented in the accompanying statements of changes in net assets available for benefits.

Securities Lending

As of and for the years ended December 31, 2022 and 2021, the Master Trust participated in BNY Mellon's securities lending program for securities held in custody at the trustee. These securities are loaned to certain unrelated third-party brokers in exchange for collateral, usually in the form of cash. Collateralization levels are equal to a percentage of the market value of the borrowed securities. For U.S. securities, collateral shall not be less than 102% of the fair value of the loaned securities, and for non-U.S. securities, collateral shall not be less than 105% of the fair value of the loaned securities unless it is denominated in the same currency as the collateral, in which case it will be 102% of the fair value. Collateral received is invested in overnight cash deposits and U.S. government securities managed by BNY Mellon. The value of loaned securities in the Master Trust amounted to approximately $5,380 and $15,506 at December 31, 2022 and 2021, respectively. The realized gain from securities lending activities of $31 and $10 for the years ended December 31, 2022 and 2021, respectively, is included as a component of the Master Trust's net (depreciation) appreciation in fair value of investments in Note 4.

Derivatives

The Plan (through the Master Trust) may enter into foreign currency forward exchange contracts primarily to hedge against foreign currency exchange rate risks on its non-U.S. dollar denominated investment securities. When entering into a forward currency contract, the Plan agrees to receive or deliver a fixed quantity of foreign currency for an agreed-upon price on an agreed future date. The Plan's net equity therein, representing unrealized gain or loss on the contracts, as measured by the difference between the forward foreign exchanges rates at the dates of entry in the contracts and the forward rates at the reporting date is included in the Master Trust's net assets. Realized and unrealized gains and losses are included in

the Master Trust's net investment (loss) income. These instruments involve market risk, credit risk or both kinds of risks in excess of the amount recognized in the statement of net assets. Risks arise from the possible inability of counterparties to meet the terms of their contracts and movement in currency and securities values and interest rates. At December 31, 2022, the Master Trust did not have any foreign currency forward exchange contracts.

At December 31, 2021, the Master Trust had the following foreign currency forward exchange contracts:

(Amounts in thousands) Fair Value of Outstanding Forward Contracts As of December 31, 2021								
Counterparty Allocation of Unrealized Profit (Loss)		Maturity Date	Total	CHF	EUR	GBP	JPY	HKD
HSBC Bank USA	MDN	18-Feb-22	USD 125	USD 2	USD 123	USD 0	USD 0	USD 0
JP Morgan Chase	CML	18-Feb-22	USD 79	(USD 11)	USD 124	USD 6	(USD 40)	USD 0
Royal Bank of Canada	RBL	18-Feb-22	(USD 24)	(USD 24)	USD 0	USD 0	USD 0	USD 0
Toronto Dominion Bank	TRD	18-Feb-22	(USD 216)	USD 0	USD 0	(USD 216)	USD 0	USD 0
Westpac Banking Corporation	WPL	18-Feb-22	USD 180	USD 0	USD 0	USD 0	USD 180	USD 0
Total fair value of forward contracts as of December 31, 2021			USD 144	(USD 33)	USD 247	(USD 210)	USD 140	USD 0

The fair value of the foreign currency forward exchange contracts, none of which are accounted for as hedge instruments under Financial Accounting Standards Board (FASB) Accounting Standards Codification (ASC) 815, *Derivatives and Hedging*, are included in the Master Trust's net assets under state and foreign bonds. The realized (loss)/gain from foreign currency forward exchange contracts of $6,865 and $2,076 for the years ended December 30, 2022 and 2021, respectively, is included as a component of the net (depreciation) appreciation in fair value of investments in Note 4.

The Master Trust may be required to post collateral on derivatives if the Master Trust is in a net liability position with the counterparty exceeding certain amounts. Additionally, counterparties may immediately terminate derivatives contracts if the Master Trust fails to maintain sufficient asset coverage for its contracts or its net assets decline by stated percentages.

Master Netting Agreements

The Master Trust is subject to master netting agreements, or netting arrangements, with certain counterparties. These agreements govern the terms of certain transactions and reduce the counterparty risk associated with relevant transactions by specifying offsetting mechanisms and collateral posting arrangements at pre-arranged exposure levels. Since different types of transactions have different mechanics and are sometimes traded out of different legal entities of a particular counterparty organization, each type of transaction may be covered by a different master netting arrangement, possibly resulting in the need for multiple agreements with a single counterparty. Master netting agreements are specific to each different asset type; therefore, they allow the Company to close out and net its total exposure to a specified counterparty in the event of a default with respect to any and all the transactions governed under a single agreement with the counterparty.

The following is a summary by counterparty of the Master Trust's net exposure to derivative assets and liabilities, available for offset and net of collateral under a netting agreement at December 31,2021.

As of December 31, 2021:
(Amounts in thousands)

Derivative Type	Fair Value of Derivative Assets	Fair Value of Derivative Liabilities	Net Exposure
Foreign currency contracts:			
HSBC Bank USA	$ 125	$ -	$ 125
JP Morgan Chase	130	(51)	79
Royal Bank of Canada	-	(24)	(24)
Toronto Dominion Bank	-	(216)	(216)
Westpac Banking Corporation	180	-	180
Total	$ 435	$ (291)	$ 144

Risks and Uncertainties

The Master Trust provides for investments that are exposed to risks such as interest rate, credit and overall market volatility risk. Due to the level of risk associated with certain investment securities, it is possible that changes in the value of investment securities may occur in the near term and those changes could materially affect the amounts reported in the statements of net assets available for benefits.

Risks and Uncertainties

The Master Trust invests in various types of investment securities and in various companies and/or funds within various markets. The Plan's interest in the Master Trust is exposed to various risks, such as interest rate, market and credit. Due to the level of risk associated with certain investments and the level of uncertainty related to changes in the value of investments in the Master Trust, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the statements of net assets available for benefits.

The actuarial present value of accumulated plan benefits is reported based on certain assumptions including interest rates and employee demographics, which are subject to change. Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that changes in these estimates and assumptions in the near term would be material to the financial statements.

NOTE 3 - ACTUARIAL PRESENT VALUE OF ACCUMULATED PLAN BENEFITS

Accumulated plan benefits are those future periodic payments, including lump-sum distributions that are attributable under the Plan's provisions to the service employees have rendered. Accumulated plan benefits include benefits expected to be paid to (a) retired or terminated employees or other beneficiaries, (b) beneficiaries of employees who have died and (c) present employees or their beneficiaries. Benefits payable under all circumstances (retirement, death, disability and termination of employment) are included to the extent they are deemed attributable to employee service rendered to the valuation date.

The actuarial present value of accumulated plan benefits as of December 31, 2022 and 2021, was determined by the Plan's actuary, Willis Towers Watson & Company (formerly known as Towers Watson & Company), using employee data supplied by the Company as of January 1, 2022 and 2021, and projected

to the respective valuation date, and is that amount that results from applying actuarial assumptions to adjust the accumulated plan benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements for events such as death, disability, withdrawal or retirement) between the valuation date and the expected date of payment.

The actuarial cost method used to determine the actuarial present value of accumulated plan benefits is the unit credit method. A summary of the significant actuarial assumptions underlying the actuarial valuations as of December 31, 2022 and 2021 are as follows:

Mortality - 2022: Based on the Retirement Plans - Collar specific Pri-2012 Mortality Table with Scale MP 2022 generational projection split between annuitants and non-annuitants and sex distinct.

Mortality - 2021: Based on the Retirement Plans - Collar specific Pri-2012 Mortality Table with Scale MP 2021 generational projection split between annuitants and non-annuitants and sex distinct.

Discount Rate: The assumed interest rates utilized to estimate accumulated plan benefits at December 31, 2022 and 2021 were 5.51% and 2.90%, respectively.

Interest Crediting Rate: The assumed interest crediting rate for December 31, 2022 and 2021 was 6.00% and 5.00%, respectively.

Retirement Age - 2022 and 2021: Age 65 for terminated vested employees and the following chart of rates applies for active employees:

Age	Percentage of Employees Expected to Retire Within One Year
55	4%
56	5%
57-59	6%
60	7%
61	10%
62	12%
63	13%
64	16%
65-69	30%
70 and later	100%

The effect of Plan amendments on accumulated plan benefits is recognized during the year in which such amendments are adopted. Effective December 31, 2021, the Plan was amended to reflect the transfer in of participants from the Pension Plan for Hourly Employees of ABB Inc. and the Kuhlman Electric Corporation Salaried Employee's Pension Plan. As of December 31, 2021, the obligation transferred for these Plans was $121,204.

The change in actuarial assumptions for the year ended December 31, 2022, was due to an increase in the interest rate to 5.51%, a change in the mortality table, and an increase in the interest crediting rate. The change in actuarial assumptions for the year ended December 31, 2021, was due to an increase in the interest rate to 2.90%, a change in the mortality table, and an increase in the interest crediting rate.

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

NOTE 4 - ABB INC. MASTER TRUST

The Plan's investments are held in the Master Trust, which is a master trust established for the investment of the assets of the Plan and other Company-sponsored retirement plans. Each participating plan has an undivided interest in the Master Trust.

The Master Trust assets are allocated among the participating plans by assigning to each plan those transactions (primarily contributions, benefit payments and plan-specific expenses) that can be specifically identified and by allocating among all plans, in proportion to each plan's beneficial interest in the Master Trust, income and expenses resulting from the collective investment of the assets of the Master Trust.

At December 31, 2022 and 2021, the Plan had a 70.6% and 69.7% interest in the net assets of the Master Trust, respectively.

The following table presents the investments and other assets and liabilities for the Master Trust and the Plan's interest in the Master Trust as of December 31, 2022 and 2021:

	December 31, 2022		December 31, 2021	
	Master Trust	Plan Interest	Master Trust	Plan Interest
Assets				
Investments				
Interest-bearing cash	$ 1,745	$ 1,232	$ 46	$ 32
U.S. government securities	51,407	36,286	102,788	71,604
Corporate bonds	423,139	298,678	414,261	288,581
Corporate stock - preferred	1,494	1,054	2,673	1,862
Corporate stock - common	-	-	1,614	1,124
Partnership/joint venture interests	3,283	2,317	94,556	65,869
State and foreign bonds	7,586	5,355	8,136	5,668
Collective trusts	206,305	145,623	267,044	186,027
103-12 investment entities	-	-	83	58
Collateral held under securities lending agreement	5,380	3,798	15,506	10,801
Total investments	700,339	494,343	906,707	631,626
Receivables				
Interest receivables	4,726	3,337	4,035	2,811
Cash	642	453		
Receivable for investments sold	-	-	1,450	1,010
Total assets	705,707	498,133	912,192	635,447
Liabilities				
Payable for investments purchased	-	-	2,902	2,022
Obligation to return securities lending collateral	5,380	3,798	15,506	10,801
Total liabilities	5,380	3,798	18,408	12,823
Total	$ 700,327	$ 494,335	$ 893,784	$ 622,624

The following are net (depreciation) appreciation in fair values of investments and investment (loss) income for the Mast Trust:

For the Years Ended December 31,	2022	2021
Net (depreciation) appreciation in fair value of investments	$ (147,477)	$ 15,608
Interest	16,819	15,292
Dividends	6,214	4,828
Miscellaneous income	29	11
Total investment (loss) income	$ (124,415)	$ 35,739

NOTE 5 - FINANCIAL INFORMATION CERTIFIED BY TRUSTEE

Certain information related to the Plan's interest in the Master Trust and the Master Trust's investments disclosed in the accompanying financial statements, including the Plan's interest in the Master Trust and the Master Trust's investments held at December 31, 2022 and 2021, and the Plan's interest in the net investment (loss) income of the Master Trust for the years ended December 31, 2022 and 2021, was obtained by management and agreed to or derived from information certified as complete and accurate by BNY Mellon, the trustee of the Plan.

NOTE 6 - FAIR VALUE MEASUREMENTS

Investments held by the Master Trust are stated at fair value. FASB ASC 820, *Fair Value Measurements and Disclosures*, requires enhanced disclosures about investments that are measured and reported at fair value. ASC 820 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.

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 Master Trust 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 Master Trust 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 determination of where an asset falls in the hierarchy requires significant judgment. Plan management evaluates the hierarchy disclosures each year and changes in economic conditions or valuation techniques may require the transfer of financial instruments from one fair value level to another. However, the Plan

expects changes in classifications between levels will be rare. In such instances, the transfer is reported at the beginning of the reporting period.

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 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 at December 31, 2022 and 2021:

- Interest-bearing cash valued at Level 2 primarily consist of cash collateral deposits with clearing financial institutions.

- U.S. government securities valued at Level 1 are valued at the closing price reported on the active markets on which the individual securities are traded and securities valued at Level 2 are valued using pricing models maximizing the use of observable inputs for similar securities.

- Corporate bonds valued at Level 2 are valued using pricing models maximizing the use of observable inputs for similar securities. This includes basing value on yields currently available on comparable section of issuers with similar credit ratings.

- Corporate stocks valued at Level 1 are valued at the closing price reported on the active markets on which the individual securities are traded and securities valued at Level 2 are valued using closing price reported on the inactive market.

- State and foreign bonds valued at Level 1 are valued at the closing price reported on the active markets on which the individual securities are traded and securities valued at Level 2 are valued using pricing models maximizing the use of observable inputs for similar securities.

- Collective trusts, partnership/joint venture interests, and 103-12 investment entities are valued at net asset value as the practical expedient and reported by the respective fund managers based upon the fair value of the underlying investments less liabilities.

The following table sets forth by level, within the fair value hierarchy, the assets at fair value of the Master Trust as of December 31, 2022:

	Master Trust Assets			
	Level 1	Level 2	Level 3	Total
Investments in the fair value hierarchy:				
Interest-bearing cash	$ 1,745	$ -	$ -	$ 1,745
U.S. government securities	13,757	37,650	-	51,407
Corporate bonds	-	423,139	-	423,139
Corporate stock - preferred	-	1,494	-	1,494
State and foreign bonds	-	7,586	-	7,586
Collateral held under securities lending agreement	5,380	-	-	5,380
Total assets in fair value hierarchy	$ 20,882	$ 469,869	$ -	490,751
Investments measured at NAV:				
Partnership/joint venture interests				3,283
Collective trusts				206,305
Total investments measured at NAV				209,588
Total assets, at fair value				$ 700,339

The following table sets forth by level, within the fair value hierarchy, the assets at fair value of the Master Trust as of December 31, 2021:

	Master Trust Assets			
	Level 1	Level 2	Level 3	Total
Investments in the fair value hierarchy:				
Interest-bearing cash	$ 46	$ -	$ -	$ 46
U.S. government securities	90,537	12,251	-	102,788
Corporate bonds	-	414,261	-	414,261
Corporate stock - preferred	-	2,673	-	2,673
Corporate stock - common	1,614	-	-	1,614
State and foreign bonds	-	8,136	-	8,136
Collateral held under securities lending agreement	15,506	-	-	15,506
Total assets in fair value hierarchy	$ 107,703	$ 437,321	$ -	545,024
Investments measured at NAV:				
Partnership/joint venture interests				94,556
Collective trusts				267,044
103-12 investment entities				83
Total investments measured at NAV				361,683
Total assets, at fair value				$ 906,707

In accordance with ASC 820, certain investments that were measured at net asset value per share (or its equivalent) have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the line items presented in Note 4.

There were no significant transfers among investment levels during the years ended December 31, 2022 and 2021.

The following table summarizes investments measured at fair value based on the NAV per share practical expedient as of December 31, 2022:

	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Partnership/joint venture interests [(a)]	$ 3,283	$ -	Monthly	30-60 days
Collective trusts [(b)]	206,305	-	Monthly	31-60 days
	$ 209,588	$ -		

The following table summarizes investments measured at fair value based on the NAV per share practical expedient as of December 31, 2021:

	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Partnership/joint venture interests [(a)]	$ 94,556	$ -	Monthly	30-60 days
Collective trusts [(b)]	267,044	-	Monthly	31-60 days
103-12 investment entities [(c)]	83	-	N/A	N/A
	$ 361,683	$ -		

[(a)] The partnership/joint venture interests investments are invested within alternative investments such as private equity and fund of funds. The investment objective of these investments is to achieve longer term growth of capital, which does so with limited liquidity. Within the limited partnerships, there is also a limited partnership that has an investment objective of seeking to outperform the S&P 500. This fund does require monthly notice to provide liquidity.

[(b)] The collective trust investments include an international equity fund, a U.S. market equity fund, and emerging market fixed income bond fund. The investment objective of the international equity fund is to seek capital appreciation through investments in a portfolio of securities issued by companies predominantly in companies contained in the MSCI EAFE Index. The investment objective of the U.S. market equity fund is to seek capital appreciation through investments in a portfolio of U.S. based small-, mid-, and large-cap growth and value stocks. The investment objective of the emerging market fixed income fund is to seek long-term total return through investment in a diversified portfolio of emerging markets debt securities and currency instruments. As of December 31, 2022, the value of international equity fund, U.S. market equity fund, and emerging market fixed income fund in the Master Trust amounted to $104,584, $101,721, and $0, respectively. As of December 31, 2021, the value of international equity fund, U.S. market equity fund and emerging market fixed income fund in the Master Trust amounted to $83,044, $0, and $183,999, respectively.

[(c)] The 103-12 investment entities are invested in alternative investments with specific requirements under ERISA. The investment objective of these investments is to achieve longer term growth of capital, which does so with limited liquidity.

NOTE 7 - PLAN TERMINATION AND PBGC MATTERS

Although the Company has not expressed any intention of terminating the Plan, the Company has the right under the Plan to terminate the Plan subject to the provisions of ERISA. In the event of termination of the Plan, distribution of the Plan assets shall be made to the participants according to the provisions for such distribution in the Plan document.

If the Plan terminates, a portion of the benefits under the Plan is insured by the PBGC. Generally, the PBGC guarantees most vested normal age retirement benefits, early retirement benefits, and certain disability and survivor benefits. However, the PBGC does not guarantee all types of benefits under the Plan and the amount of benefit protection is subject to certain limitations. Whether all participants receive their benefits should the Plan terminate at some future time will depend on the sufficiency, at that time, of the Plan's net assets to provide those benefits, and may also depend on the level of benefits guaranteed by the PBGC.

NOTE 8 - INCOME TAX STATUS

The Internal Revenue Service (IRS) has determined and informed the Company by a letter dated February 10, 2021, that the Plan and related trust are designed in accordance with applicable sections of the Internal Revenue Code (IRC). Although the Plan has been amended 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, believe that the Plan is qualified, and the related trust is tax exempt.

US GAAP 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 9 - PARTY-IN-INTEREST TRANSACTIONS

Certain of the Master Trust's assets are invested in funds managed by the Trustee. These transactions qualify as party-in-interest transactions; however, they are exempt from the prohibited transactions rules under ERISA.

NOTE 10 - SUBSEQUENT EVENTS

In October 2022, the Boards of the Corporation and ABB Installation Products Inc. (formerly Thomas & Betts Corporation and a member of the ABB controlled group) approved the merger of the ABB Inc. Cash Balance Pension Plan with and into the Thomas & Betts Pension Plan effective December 31, 2023. In connection with the merger, the Thomas & Betts Pension Plan will be renamed, and sponsorship will transfer to ABB Inc. The benefits of the participants associated with the mergers will be subject to their original plan provisions.

Plan management evaluated subsequent events through September 15, 2023, which is the date the Plan financial statements were available to be issued, and has concluded that, there were no additional subsequent events requiring recognition or disclosure in these financial statements other than the plan merger noted above.

SCHEDULE SB ATTACHMENTS

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

	Attained Years of Credited Service[1]										
Attained Age	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	Total
Under 25	0	0	0	0	0	0	0	0	0	0	0
25-29	3	0	0	0	0	0	0	0	0	0	3
30-34	24	5	0	0	0	0	0	0	0	0	29
35-39	20	53	15	0	0	0	0	0	0	0	88
40-44	24	49	34	21	0	0	0	0	0	0	128
45-49	31	46	33	46	10	0	0	0	0	0	166
50-54	34	51	36	66	44	16	1	0	0	0	248
55-59	36	66	42	132	50	51	12	0	0	0	389
60-64	25	34	49	95	36	48	40	6	1	0	334
65-69	12	20	14	38	9	11	7	11	3	0	125
70 & over	1	5	5	10	0	3	0	2	0	0	26
Total	210	329	228	408	149	129	60	19	4	0	1,536

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

Plan Name: ABB Inc. Cash Balance Pension Plan
EIN / PN: 36-3100018/301
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2022

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 26a

Schedule of Active Participant Data for Cash Balance Plans as of January 1, 2022

	Attained Years of Credited Service[2]										
Attained Age	**Under 1**	**1-4**	**5-9**	**10-14**	**15-19**	**20-24**	**25-29**	**30-34**	**35-39**	**40 & Over**	**Total**
Under 25	0	0	0	0	0	0	0	0	0	0	0
	-	-	-	-	-	-	-	-	-	-	-
25-29	3	0	0	0	0	0	0	0	0	0	3
	-	-	-	-	-	-	-	-	-	-	-
30-34	24	5	0	0	0	0	0	0	0	0	29
	4,332	-	-	-	-	-	-	-	-	-	4,315
35-39	20	53	15	0	0	0	0	0	0	0	88
	1,734	11,664	-	-	-	-	-	-	-	-	10,414
40-44	24	49	34	21	0	0	0	0	0	0	128
	2,947	17,265	30,384	44,979	-	-	-	-	-	-	22,612
45-49	31	46	33	46	10	0	0	0	0	0	166
	2,804	24,800	40,714	75,614	-	-	-	-	-	-	40,576
50-54	34	51	36	66	44	16	1	0	0	0	248
	7,387	23,140	48,115	95,587	110,687	-	-	-	-	-	64,529
55-59	36	66	42	132	50	51	12	0	0	0	389
	12,057	39,608	74,556	124,572	161,047	198,264	-	-	-	-	112,268
60-64	25	34	49	95	36	48	40	6	1	0	334
	8,699	38,632	69,965	126,209	150,888	209,750	246,006	-	-	-	129,666
65-69	12	20	14	38	9	11	7	11	3	0	125
	-	34,631	-	111,078	-	-	-	-	-	-	117,632
70 & over	1	5	5	10	0	3	0	2	0	0	26
	-	-	-	-	-	-	-	-	-	-	154,337
Total	210	329	228	408	149	129	60	19	4	0	1,536
	6,096	26,112	53,206	110,638	141,931	189,563	230,878	-	-	-	86,180

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

Plan Name: ABB Inc. Cash Balance Pension Plan
EIN / PN: 36-3100018/301
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2022

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V
Statement of Actuarial Assumptions/Methods

Economic Assumptions

Interest rate basis:

- Applicable month: September
- Interest rate basis: 3-Segment Rates

Interest rates:	**Reflecting Corridors**	**Not Reflecting Corridors**
First segment rate	4.75%	1.07%
Second segment rate	5.18%	2.68%
Third segment rate	5.92%	3.36%
Effective interest rate	5.37%	2.84%

Annual rates of increase

- Inflation (CPI): N/A
- Compensation: N/A
- Future Social Security wage bases: N/A
- Statutory limits on compensation and benefits: N/A

Plan-related expenses $3,720,000

Interest Crediting Rate

- Cash Balance Plan Participants: 4.00% for 2022 and 5.00% per year thereafter
- Former Kuhlman Salaried Plan Participants: 5.00% per annum

Plan Name: ABB Inc. Cash Balance Pension Plan
EIN / PN: 36-3100018/301
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2022

SCHEDULE SB ATTACHMENTS

Demographic Assumptions

Inclusion date

The valuation date coincident with or next following the date on which the employee becomes a participant.

New or rehired employees

It was assumed there will be no new or rehired employees.

Mortality

- Healthy

Separate rates for non-annuitants (based on RP-2014 "Employees" table without collar or amount adjustments, adjusted backward to 2006 with MP-2014, and then projected forward with a static projection as specified in the regulations under §1.430(h)(3)-1 using Scale MP-2020) and annuitants (based on RP-2014 "Healthy Annuitants" table without collar or amount adjustments, adjusted backward to 2006 with MP-2014, and then projected forward with a static projection as specified in the regulations under §1.430(h)(3)-1 using Scale MP-2020).

- Disabled

Alternative disabled life mortality tables as defined under Revenue Ruling 96-7.

Termination

Representative Termination rates not due to Disability, Retirement, and Mortality

Percentage leaving during the year	
Attained Age	**Rate**
20	17.60%
30	11.10%
40	6.90%
50	4.10%
60	2.30%

Disability

One-half of the disability rates in the twelfth valuation of the Railroad Retirement Board (set forward 1 year for males and set back 4 years for females).

SCHEDULE SB ATTACHMENTS

Retirement

For purposes of determining the Funding Target and Target Normal Cost (both disregarding at-risk assumptions), the rates at which participants retire by age are shown below.

Percentage retiring during the year	
Age	**Rate**
55	4.00%
56	5.00%
57-59	6.00%
60	7.00%
61	10.00%
62	12.00%
63	13.00%
64	16.00%
65-69	30.00%
70	100.00%

Benefit commencement date:

- Preretirement death benefit

  For Cash Balance, except as noted below, for actives and solds, upon death. For terminated vesteds, the date the participant would have attained age 65.

  For prior Consolidated Hourly participants, the later of the death of the "sold" participant or the date the participant would have attained age 55.

  For prior Kuhlman Salaried participants, for actives, the later of the date of death of the active participant or the date the participant would have attained age 55. For terminated vested participants, the later of the date of death of the participant or the date the participant would have attained eligibility for early retirement.

- Deferred vested benefit — Age 62 for prior Kuhlman Salaried participants with account balances, and age 65 for all others assumed to elect an annuity, or upon termination of employment if assumed to elect a lump sum benefit.
- Disability benefit — Upon disability.
- Retirement benefit — Upon termination of employment.

SCHEDULE SB ATTACHMENTS

Form of payment	For Cash Balance active participants and "sold participants", 60% of eligible participants are assumed to elect a lump sum benefit, and 40% are assumed to elect the 5-year certain & life option. For prior Kuhlman Salaried participants, terminated vested participants who are eligible to elect the lump sum option are assumed to elect a lump sum benefit. For Former Participants of the Power T&D Represented Plan, sold participants who are eligible to elect a lump sum are assumed to elect a lump sum benefit. All other participants are assumed to elect the normal form, if they have not yet made an election.
Percent married	For purposes of valuing the pre-retirement surviving spouse benefit, 70% of deferred vested participants are assumed to be married.
Spouse age	For purposes of valuing the pre-retirement surviving spouse benefit, wives are assumed to be three years younger than husbands.
Timing of benefit payments	Annuity payments are payable monthly at the beginning of the month and lump sum payments are payable on date of decrement.

Methods

Valuation date	First day of plan year.
Funding target	Present value of accrued benefits as required by regulations under IRC §430.
Target normal cost	Present value of benefits expected to accrue during the plan year plus plan-related expenses expected to be paid from plan assets during the plan year as required by regulations under IRC §430.
Actuarial value of assets	Average of the fair market value of assets on the valuation date and 12 and 24 months preceding the valuation date, adjusted for contributions, benefits, plan-related expenses and expected earnings (with such expected earnings limited as described in IRS Notice 2009-22). The average asset value must be within 10% of market value, including discounted contributions receivable (discounted using the effective interest rate for the prior plan year).

SCHEDULE SB ATTACHMENTS

The method of computing the actuarial value of assets complies with rules governing the calculation of such values under the Pension Protection Act of 2006 (PPA). These rules produce smoothed values that reflect the underlying market value of plan assets but fluctuate less than the market value. As a result, the actuarial value of assets will be lower than the market value in some years and greater in other years. However, over the long term under PPA's smoothing rules, the method has a significant bias to produce an actuarial value of assets that is below the market value of assets.

For purposes of calculating the actuarial value of assets, expected earnings assumptions of 5.00% for 2021 and 5.50% 2020 were used.

Benefits not valued

All benefits described in the Plan Provisions section of this report were valued. Willis Towers Watson has reviewed the plan provisions with ABB Inc. and based on that review, is not aware of any significant benefits required to be valued that were not.

Sources of Data and Other Information

The plan sponsor through its third-party administrator (Alight), furnished participant data as of 1/1/2022. Information on assets, contributions and plan provisions was supplied by the plan sponsor. Data and other information were reviewed for reasonableness and consistency, but no audit was performed. Based on discussions with the plan sponsor, assumptions or estimates were made when data were not available, and the data was adjusted to reflect any significant events that occurred between the date the data was collected and the measurement date.

Please refer to the 1/1/2022 Pension Valuation Census Data Report for documentation of assumptions made for missing or apparently inconsistent data elements.

We are not aware of any errors or omissions in the data that would have a significant effect on the results of our calculations.

Assumptions Rationale - Significant Economic Assumptions

Interest rate

The basis chosen was selected by the plan sponsor from among choices prescribed by law, all of which are based on observed market data over certain periods of time.

Plan-related expenses

As required by regulations, plan-related expenses are calculated by estimating the expenses to be paid from the trust during the coming year.

Interest crediting rate

The Cash Balance Plan credits interest on the cash balance accounts primarily using CPI plus 300 basis points, limited to the 417(e) third

	segment rate for August of the previous year, but with a minimum interest crediting rate of 4% and a maximum interest crediting rate of 9%. The assumption selected by the plan sponsor is the actual interest crediting rate for 2022 and an assumed interest crediting rate assumption thereafter based on the long-term expectation of long high-quality corporate bond yields. Based on future expectations, the assumed interest crediting rate for 2023 and beyond is equal to 5.00%. The prior Kuhlman Salaried Plan credits interest on cash balance accounts using the lesser of CPI and a 12-month average of the yields on One-Year Treasury Constant Maturities, but with a minimum interest crediting rate of 5% and a maximum interest crediting rate of 8%. The assumption selected by the plan sponsor is the actual interest crediting rate for 2022 and an assumed interest crediting rate thereafter. Based on future expectations, the assumed interest crediting rate for 2022 and beyond is equal to the plan's minimum rate of 5.00%.
Annuity conversion rate	As required by IRC 430, annuity benefits were calculated from the cash balance accounts using the current required IRC 430 conversion rates.
Assumed return for asset smoothing	The assumed return of 5.00% used for asset smoothing is the expected return on asset assumption chosen by the plan sponsor in the prior plan year and we concur with this assumption.

Assumptions Rationale - Significant Demographic Assumptions

Healthy mortality	Assumptions used for funding purposes are as prescribed by IRC §430(h).
Disabled mortality	Assumptions used for funding purposes are as prescribed by IRC §430(h).
Termination	Termination rates were selected based on a published table for pension participants believed to have similar characteristics to the plan population. For this reason, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Disability	Disability rates were selected based on a published table for pension participants believed to have similar characteristics to the plan population. For this reason, we believe the assumptions selected do not significantly conflict with what would be reasonable.

SCHEDULE SB ATTACHMENTS

Retirement	Retirement rates were selected based on plan sponsor expectations for the future with periodic monitoring of observed gains and losses caused by retirement patterns different than assumed. For this reason, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Percent married	The assumed percentage married was selected based on general population statistics on the marital rates of individuals of retirement age. For this reason, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Form of Payment	The percentage of terminating participants assumed to take a lump sum is based on a combination of future expectations and observed experience over the period 2016 through 2020. For this reason, we believe the assumptions selected do not significantly conflict with what would be reasonable.

Source of Prescribed Methods

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

Changes in Assumptions and Methods

Change in assumptions and methods since prior valuation

In addition to the prescribed change in the mortality table, the following changes in assumptions were made as part of this valuation:

- The plan's effective interest rate decreased 16 basis points compared to the prior year (5.37% vs. 5.53%).
- The assumed plan-related expenses added to the target normal cost were changed from $4,410,000 for 2021 to $3,720,000 for 2022.
- The interest crediting rate assumption changed from 4.00% in 2021 and 5.00% per year thereafter to 4.00% in 2022 and 5.00% per year thereafter.
- The form of payment assumption for the Cash Balance Plan and prior Kuhlman Salaried Plan participants was updated to better reflect recent experience.

SCHEDULE SB ATTACHMENTS

- For prior Consolidated Hourly participants, termination and retirement rates were changed to align with the Cash Balance Plan rates in conjunction with its merger into the Cash Balance Plan as of 12/31/2021.
- For prior Kuhlman Salaried participants, retirement rates were changed to align with the Cash Balance Plan rates in conjunction with its merger into the Cash Balance Plan as of 12/31/2021.

SCHEDULE SB (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Single-Employer Defined Benefit Plan Actuarial Information

This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).

▶ **File as an attachment to Form 5500 or 5500-SF.**

OMB No. 1210-0110

2022

This Form is Open to Public Inspection

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

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

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

A Name of plan
ABB INC. CASH BALANCE PENSION PLAN

B Three-digit plan number (PN) ▶ 301

C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF
ABB INC.

D Employer Identification Number (EIN)
36-3100018

E Type of plan: [X] Single [ ] Multiple-A [ ] Multiple-B

F Prior year plan size: [ ] 100 or fewer [ ] 101-500 [X] More than 500

Part I Basic Information

1 Enter the valuation date: Month 01 Day 01 Year 2022

2 Assets:

a Market value	**2a**	622,625,151
b Actuarial value	**2b**	617,995,130

3 Funding target/participant count breakdown

	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	2,028	199,869,961	199,869,961
b For terminated vested participants	4,729	189,250,950	189,250,950
c For active participants	1,536	130,081,389	130,081,389
d Total	8,293	519,202,300	519,202,300

4 If the plan is in at-risk status, check the box and complete lines (a) and (b) [ ]

a Funding target disregarding prescribed at-risk assumptions	**4a**	
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	**4b**	
5 Effective interest rate	**5**	5.37%
6 Target normal cost		
a Present value of current plan year accruals	**6a**	0
b Expected plan-related expenses	**6b**	3,720,000
c Total (line 6a + line 6b)	**6c**	3,720,000

Statement by Enrolled Actuary

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

SIGN HERE

John D Steele JDS — Signature of actuary

9/18/2023 — Date

John D Steele — Type or print name of actuary

2305326 — Most recent enrollment number

Willis Towers Watson US LLC — Firm name

203-326-5400 — Telephone number (including area code)

3001 Summer Street
Floor 5
Stamford CT 06905
Address of the firm

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

Part II Beginning of Year Carryover and Prefunding Balances

		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	55,338,869	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	55,338,869	0
10	Interest on line 9 using prior year's actual return of 3.92 %	2,169,284	0
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		0
	b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of 5.53 %		0
	b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
	c Total available at beginning of current plan year to add to prefunding balance		0
	d Portion of (c) to be added to prefunding balance		0
12	Other reductions in balances due to elections or deemed elections	0	0
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	57,508,153	0

Part III Funding Percentages

14	Funding target attainment percentage	14	107.95 %
15	Adjusted funding target attainment percentage	15	114.18 %
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	113.63 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV Contributions and Liquidity Shortfalls

18 Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
			Totals ► 18(b)	0	18(c) 0

19	Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:		
	a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0
	b Contributions made to avoid restrictions adjusted to valuation date	19b	0
	c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	0

20 Quarterly contributions and liquidity shortfalls:

a Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No

b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ No

c If line 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year

(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

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

21 Discount rate:

a Segment rates:

1st segment:	2nd segment:	3rd segment:	
4.75 %	5.18 %	5.92 %	☐ N/A, full yield curve used

b Applicable month (enter code)	**21b**	4
22 Weighted average retirement age	**22**	63

23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment ☒ Yes ☐ No

25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment ☐ Yes ☒ No

26 Demographic and benefit information

a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment ☒ Yes ☐ No

b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ☒ Yes ☐ No

27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment	**27**	

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

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

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):

a Target normal cost (line 6c)	**31a**	3,720,000
b Excess assets, if applicable, but not greater than line 31a	**31b**	3,720,000

32 Amortization installments:

	Outstanding Balance	Installment
a Net shortfall amortization installment	0	0
b Waiver amortization installment	0	0

33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	**33**	
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)	**34**	0

	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	0	0

36 Additional cash requirement (line 34 minus line 35)	**36**	0
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	**37**	0
38 Present value of excess contributions for current year (see instructions)		
a Total (excess, if any, of line 37 over line 36)	**38a**	0
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	**38b**	0
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	**39**	0
40 Unpaid minimum required contributions for all years	**40**	0

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

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

SCHEDULE SB ATTACHMENTS

Schedule SB – Statement by Enrolled Actuary

Plan Sponsor	ABB Inc.
EIN/PN	36-3100018/301
Plan Name	ABB Inc. Cash Balance Pension Plan
Valuation Date	January 1, 2022
Enrolled Actuary	John D. Steele
Enrollment Number	23-05326

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

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

SCHEDULE SB ATTACHMENTS

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

The average retirement age for Line 22 was calculated by creating a hypothetical life table with retirement as the only decrement, and then computing the average retirement age for the table.

Age	Retirement Rates	Lives at each Age	Retirements at each Age	Weighted Avg Age
55	4.00%	1.000000	0.040000	2.20
56	5.00%	0.960000	0.048000	2.69
57	6.00%	0.912000	0.054720	3.12
58	6.00%	0.857280	0.051437	2.98
59	6.00%	0.805843	0.048351	2.85
60	7.00%	0.757493	0.053024	3.18
61	10.00%	0.704468	0.070447	4.30
62	12.00%	0.634021	0.076083	4.72
63	13.00%	0.557939	0.072532	4.57
64	16.00%	0.485407	0.077665	4.97
65	30.00%	0.407742	0.122322	7.95
66	30.00%	0.285419	0.085626	5.65
67	30.00%	0.199793	0.059938	4.02
68	30.00%	0.139855	0.041957	2.85
69	30.00%	0.097899	0.029370	2.03
70	100.00%	0.068529	0.068529	4.80
Average age at retirement				62.87
Nearest whole age				**63.00**

Plan Name: ABB Inc. Cash Balance Pension Plan
EIN / PN: 36-3100018/301
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2022

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V
Statement of Actuarial Assumptions/Methods

Economic Assumptions

Interest rate basis:

- Applicable month: September
- Interest rate basis: 3-Segment Rates

Interest rates:	**Reflecting Corridors**	**Not Reflecting Corridors**
First segment rate	4.75%	1.07%
Second segment rate	5.18%	2.68%
Third segment rate	5.92%	3.36%
Effective interest rate	5.37%	2.84%

Annual rates of increase

- Inflation (CPI): N/A
- Compensation: N/A
- Future Social Security wage bases: N/A
- Statutory limits on compensation and benefits: N/A

Plan-related expenses $3,720,000

Interest Crediting Rate

- Cash Balance Plan Participants: 4.00% for 2022 and 5.00% per year thereafter
- Former Kuhlman Salaried Plan Participants: 5.00% per annum

Plan Name: ABB Inc. Cash Balance Pension Plan
EIN / PN: 36-3100018/301
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2022

SCHEDULE SB ATTACHMENTS

Demographic Assumptions

Inclusion date

The valuation date coincident with or next following the date on which the employee becomes a participant.

New or rehired employees

It was assumed there will be no new or rehired employees.

Mortality

- Healthy

Separate rates for non-annuitants (based on RP-2014 "Employees" table without collar or amount adjustments, adjusted backward to 2006 with MP-2014, and then projected forward with a static projection as specified in the regulations under §1.430(h)(3)-1 using Scale MP-2020) and annuitants (based on RP-2014 "Healthy Annuitants" table without collar or amount adjustments, adjusted backward to 2006 with MP-2014, and then projected forward with a static projection as specified in the regulations under §1.430(h)(3)-1 using Scale MP-2020).

- Disabled

Alternative disabled life mortality tables as defined under Revenue Ruling 96-7.

Termination

Representative Termination rates not due to Disability, Retirement, and Mortality

Percentage leaving during the year	
Attained Age	**Rate**
20	17.60%
30	11.10%
40	6.90%
50	4.10%
60	2.30%

Disability

One-half of the disability rates in the twelfth valuation of the Railroad Retirement Board (set forward 1 year for males and set back 4 years for females).

SCHEDULE SB ATTACHMENTS

Retirement

For purposes of determining the Funding Target and Target Normal Cost (both disregarding at-risk assumptions), the rates at which participants retire by age are shown below.

Percentage retiring during the year	
Age	**Rate**
55	4.00%
56	5.00%
57-59	6.00%
60	7.00%
61	10.00%
62	12.00%
63	13.00%
64	16.00%
65-69	30.00%
70	100.00%

Benefit commencement date:

- Preretirement death benefit

  For Cash Balance, except as noted below, for actives and solds, upon death. For terminated vesteds, the date the participant would have attained age 65.

  For prior Consolidated Hourly participants, the later of the death of the "sold" participant or the date the participant would have attained age 55.

  For prior Kuhlman Salaried participants, for actives, the later of the date of death of the active participant or the date the participant would have attained age 55. For terminated vested participants, the later of the date of death of the participant or the date the participant would have attained eligibility for early retirement.

- Deferred vested benefit — Age 62 for prior Kuhlman Salaried participants with account balances, and age 65 for all others assumed to elect an annuity, or upon termination of employment if assumed to elect a lump sum benefit.
- Disability benefit — Upon disability.
- Retirement benefit — Upon termination of employment.

SCHEDULE SB ATTACHMENTS

Form of payment	For Cash Balance active participants and "sold participants", 60% of eligible participants are assumed to elect a lump sum benefit, and 40% are assumed to elect the 5-year certain & life option. For prior Kuhlman Salaried participants, terminated vested participants who are eligible to elect the lump sum option are assumed to elect a lump sum benefit. For Former Participants of the Power T&D Represented Plan, sold participants who are eligible to elect a lump sum are assumed to elect a lump sum benefit. All other participants are assumed to elect the normal form, if they have not yet made an election.
Percent married	For purposes of valuing the pre-retirement surviving spouse benefit, 70% of deferred vested participants are assumed to be married.
Spouse age	For purposes of valuing the pre-retirement surviving spouse benefit, wives are assumed to be three years younger than husbands.
Timing of benefit payments	Annuity payments are payable monthly at the beginning of the month and lump sum payments are payable on date of decrement.

Methods

Valuation date	First day of plan year.
Funding target	Present value of accrued benefits as required by regulations under IRC §430.
Target normal cost	Present value of benefits expected to accrue during the plan year plus plan-related expenses expected to be paid from plan assets during the plan year as required by regulations under IRC §430.
Actuarial value of assets	Average of the fair market value of assets on the valuation date and 12 and 24 months preceding the valuation date, adjusted for contributions, benefits, plan-related expenses and expected earnings (with such expected earnings limited as described in IRS Notice 2009-22). The average asset value must be within 10% of market value, including discounted contributions receivable (discounted using the effective interest rate for the prior plan year).

SCHEDULE SB ATTACHMENTS

The method of computing the actuarial value of assets complies with rules governing the calculation of such values under the Pension Protection Act of 2006 (PPA). These rules produce smoothed values that reflect the underlying market value of plan assets but fluctuate less than the market value. As a result, the actuarial value of assets will be lower than the market value in some years and greater in other years. However, over the long term under PPA's smoothing rules, the method has a significant bias to produce an actuarial value of assets that is below the market value of assets.

For purposes of calculating the actuarial value of assets, expected earnings assumptions of 5.00% for 2021 and 5.50% 2020 were used.

Benefits not valued

All benefits described in the Plan Provisions section of this report were valued. Willis Towers Watson has reviewed the plan provisions with ABB Inc. and based on that review, is not aware of any significant benefits required to be valued that were not.

Sources of Data and Other Information

The plan sponsor through its third-party administrator (Alight), furnished participant data as of 1/1/2022. Information on assets, contributions and plan provisions was supplied by the plan sponsor. Data and other information were reviewed for reasonableness and consistency, but no audit was performed. Based on discussions with the plan sponsor, assumptions or estimates were made when data were not available, and the data was adjusted to reflect any significant events that occurred between the date the data was collected and the measurement date.

Please refer to the 1/1/2022 Pension Valuation Census Data Report for documentation of assumptions made for missing or apparently inconsistent data elements.

We are not aware of any errors or omissions in the data that would have a significant effect on the results of our calculations.

Assumptions Rationale - Significant Economic Assumptions

Interest rate

The basis chosen was selected by the plan sponsor from among choices prescribed by law, all of which are based on observed market data over certain periods of time.

Plan-related expenses

As required by regulations, plan-related expenses are calculated by estimating the expenses to be paid from the trust during the coming year.

Interest crediting rate

The Cash Balance Plan credits interest on the cash balance accounts primarily using CPI plus 300 basis points, limited to the 417(e) third

	segment rate for August of the previous year, but with a minimum interest crediting rate of 4% and a maximum interest crediting rate of 9%. The assumption selected by the plan sponsor is the actual interest crediting rate for 2022 and an assumed interest crediting rate assumption thereafter based on the long-term expectation of long high-quality corporate bond yields. Based on future expectations, the assumed interest crediting rate for 2023 and beyond is equal to 5.00%. The prior Kuhlman Salaried Plan credits interest on cash balance accounts using the lesser of CPI and a 12-month average of the yields on One-Year Treasury Constant Maturities, but with a minimum interest crediting rate of 5% and a maximum interest crediting rate of 8%. The assumption selected by the plan sponsor is the actual interest crediting rate for 2022 and an assumed interest crediting rate thereafter. Based on future expectations, the assumed interest crediting rate for 2022 and beyond is equal to the plan's minimum rate of 5.00%.
Annuity conversion rate	As required by IRC 430, annuity benefits were calculated from the cash balance accounts using the current required IRC 430 conversion rates.
Assumed return for asset smoothing	The assumed return of 5.00% used for asset smoothing is the expected return on asset assumption chosen by the plan sponsor in the prior plan year and we concur with this assumption.

Assumptions Rationale - Significant Demographic Assumptions

Healthy mortality	Assumptions used for funding purposes are as prescribed by IRC §430(h).
Disabled mortality	Assumptions used for funding purposes are as prescribed by IRC §430(h).
Termination	Termination rates were selected based on a published table for pension participants believed to have similar characteristics to the plan population. For this reason, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Disability	Disability rates were selected based on a published table for pension participants believed to have similar characteristics to the plan population. For this reason, we believe the assumptions selected do not significantly conflict with what would be reasonable.

SCHEDULE SB ATTACHMENTS

Retirement	Retirement rates were selected based on plan sponsor expectations for the future with periodic monitoring of observed gains and losses caused by retirement patterns different than assumed. For this reason, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Percent married	The assumed percentage married was selected based on general population statistics on the marital rates of individuals of retirement age. For this reason, we believe the assumptions selected do not significantly conflict with what would be reasonable.
Form of Payment	The percentage of terminating participants assumed to take a lump sum is based on a combination of future expectations and observed experience over the period 2016 through 2020. For this reason, we believe the assumptions selected do not significantly conflict with what would be reasonable.

Source of Prescribed Methods

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

Changes in Assumptions and Methods

Change in assumptions and methods since prior valuation

In addition to the prescribed change in the mortality table, the following changes in assumptions were made as part of this valuation:

- The plan's effective interest rate decreased 16 basis points compared to the prior year (5.37% vs. 5.53%).
- The assumed plan-related expenses added to the target normal cost were changed from $4,410,000 for 2021 to $3,720,000 for 2022.
- The interest crediting rate assumption changed from 4.00% in 2021 and 5.00% per year thereafter to 4.00% in 2022 and 5.00% per year thereafter.
- The form of payment assumption for the Cash Balance Plan and prior Kuhlman Salaried Plan participants was updated to better reflect recent experience.

SCHEDULE SB ATTACHMENTS

- For prior Consolidated Hourly participants, termination and retirement rates were changed to align with the Cash Balance Plan rates in conjunction with its merger into the Cash Balance Plan as of 12/31/2021.
- For prior Kuhlman Salaried participants, retirement rates were changed to align with the Cash Balance Plan rates in conjunction with its merger into the Cash Balance Plan as of 12/31/2021.

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 24
Change in Actuarial Assumptions

The following changes were made to non-prescribed actuarial assumptions for 2022:

- The assumed plan-related expenses added to the target normal cost were changed from $4,410,000 for 2021 to $3,720,000 for 2022.
- The interest crediting rate assumption changed from 4.00% in 2021 and 5.00% per year thereafter to 4.00% in 2022 and 5.00% per year thereafter.
- The form of payment assumption for the Cash Balance Plan and prior Kuhlman Salaried Plan participants was updated to better reflect recent experience.
- For prior Consolidated Hourly participants, termination and retirement rates were changed to align with the Cash Balance Plan rates in conjunction with its merger into the Cash Balance Plan as of 12/31/2021.
- For prior Kuhlman Salaried participants, retirement rates were changed to align with the Cash Balance Plan rates in conjunction with its merger into the Cash Balance Plan as of 12/31/2021.

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V
Summary of Plan Provisions

Plan Provisions

The Plan was adopted on December 1, 1950 and amendments through January 1, 2022 are reflected in the plan provisions.

As of December 31, 2021, participants of the Consolidated Hourly Plan and Kuhlman Salaried Plan were merged into the Cash Balance Plan.

Coverage and participation

First day of the month following employee commencement date. Accruals under the plan were frozen as of December 31, 2011. There will be no new participants in this plan after December 31, 2011.

As of December 31, 2019, inactive participants in the Represented Cash Balance were merged into the plan.

Definitions

Vesting service

100% after 3 years of vesting service. All participants were vested as of December 31, 2011.

Normal retirement date (NRD)

First day of the month coinciding with or next following the attainment of age 65.

Retirement benefit formula

For each year of service, a member's account will be credited with the following percentage of salary:

Age	Percentage
Under 25	2.5%
25 - 29	3.0%
30 - 34	3.5%
35 - 39	4.0%
40 - 44	4.5%
45 - 49	5.0%
50 - 54	5.5%
55 - 59	6.0%
60 and over	6.5%

An additional 2.25% of salary in excess of one-half the Social Security Taxable Wage Base is credited each year.

Pay credits were frozen as of December 31, 2011.

SCHEDULE SB ATTACHMENTS

Transitional credits	A member of the prior plan who as of the date of conversion had attained certain age and service conditions is credited with an additional percentage of his salary for each year of service.
Interest credits	Interest credits on each member's account balance in any year are equal to the Cost of Living Escalator Percentage, which is the highest Consumer Price Index rate for the months of August, September, and October of the previous year plus 300 basis points, but not less than 4% or greater than 9%, however, the resulting rate is limited to the 417(e) third segment rate for August of the previous year. The Percentage was 8% for the plan years beginning January 1, 1992 through January 1, 2001, 6.7% for the plan year beginning January 1, 2002, 5.93% for the plan year beginning January 1, 2003, 6.00% for the plan year beginning January 1, 2004, 6.20% for the plan year beginning January 1, 2005, 7.70% for the plan year beginning January 1, 2006, 6.80% for the plan year beginning January 1, 2007, 6.50% for the plan year beginning January 1, 2008, 8.40% for the plan year beginning January 1, 2009, 4.00% for the plan year beginning January 1, 2010, 4.20% for the plan year beginning January 1, 2011, 6.90% for the plan year beginning January 1, 2012, 5.20% for the plan year beginning January 1, 2013, 4.50% for the plan year beginning January 1, 2014, 4.70% for the plan year beginning January 1, 2015, 4.00% for the plan year beginning January 1, 2016, 4.18% for the plan year beginning January 1, 2017, 4.36% for the plan year beginning January 1, 2018, 4.46% for the plan year beginning January 1, 2019, 4.00% for the plan year beginning January 1, 2020, 4.00% for the plan year beginning January 1, 2021, and 4.00% for the plan year beginning January 1, 2022.
Accrued benefit under prior plan	The accrued benefit under the prior plan, excluding the Retirement Income Plan for Applied Automation, Inc., as of the date of conversion was converted to a lump sum amount as a beginning account balance. Such conversion was based upon an 8% interest rate for the January 1, 1994, January 1, 1992 and December 1, 1988 conversions, and 7.25% for December 1, 1989 conversions, and an assumed retirement age of 65. The accrued benefit under the Applied Automation Plan will be indexed with increases in final average earnings and may be converted to a lump sum at termination.
Accrued monthly annuity benefit	Equal to a five-year certain and continuous annuity payable at age 65 that is actuarial equivalent to the account balance. In no event will the accrued benefit be less than the benefit accrued under the prior plan as of the date of conversion.

SCHEDULE SB ATTACHMENTS

Eligibility for Benefits

Normal retirement	First of month coinciding with or next following the attainment of age 65
Early retirement	First day of the month following attainment of age 55 and completion of 5 years of service (age 55 for Combustion Engineering employees as of December 31, 1991).
Deferred vested termination	Termination for reasons other than death or retirement after completing three years of vesting service
Disability	Upon total and permanent disablement
Preretirement death benefit	Death while eligible for normal, early, postponed, or deferred vested retirement benefits

Benefits Paid Upon the Following Events

Normal retirement	A monthly annuity calculated in accordance with the Retirement Benefit Formula and payable as a Normal Form of Benefit.
Early retirement	A monthly annuity calculated in accordance with the Retirement Benefit Formula and payable as a Normal Form of Benefit at age 65, or payable earlier in an actuarially reduced amount.
Deferred vested termination	A monthly annuity calculated in accordance with the Retirement Benefit Formula and payable as a Normal Form of Benefit at age 65, or payable earlier in an actuarially reduced amount.
Disablement	A member shall be eligible for additional credits each year in accordance with the Retirement Benefit Formula, Transitional Credits, and Interest Credits based upon the member's salary in effect at the time of disability retirement. The additional credits shall cease upon the earlier of recovery or attainment of age 65. A member may elect to receive his accrued benefit at any time, at which time no further credits shall be granted.
Preretirement death	In the event of death of a vested employee prior to retirement, his beneficiary will be entitled to the actuarially equivalent lump sum value of the employee's accrued benefit. If the beneficiary is the employee's surviving spouse, an actuarially equivalent annuity may be received.

SCHEDULE SB ATTACHMENTS

Other Plan Provisions

Forms of payment

Normal Forms of Payment

- For a member who does not have a spouse, the automatic form of benefit is a monthly life annuity with a five-year certain feature.\
- For married members, the automatic form of benefit is an actuarially equivalent 50% joint and survivor annuity with a five-year certain feature. Alternatively, a member may elect to receive an actuarially equivalent lump sum

Forms of Payment in Lieu of Normal Forms

- Single Life Annuity
- Joint & Survivor Options (50%, 67%, 75%, 100%)
- Certain & Life (5, 10, 15, 20 years)
- Lump Sum

Preserved early retirement provision

- Eligibility

1. Prior ABB or Power T&D Active members whose age plus vesting service equalled 65 or more on their date of conversion
2. Active members on their date of conversion who had attained age 55 or whose age plus years of benefit service equalled 60 or more as of that date

- Benefit

The benefit for service prior to the effective date shall be no less than the normal retirement or early retirement benefit accrued under the prior plan, as applicable.

Minimum Benefit for Certain Prior Flakt Plan Members

- Eligibility

Members of the prior Flakt Plan as of December 31, 1993 that were (i) 35-39 and vested, or (ii) at least age 40.

- Benefit

The participant will receive their cash balance account, plus the difference in the value of a life annuity at their date of termination determined under the prior Flakt plan and the life annuity equivalent of the cash balance account at their date of termination. If applicable, this additional benefit will be paid as a life annuity under the terms of the prior Flakt Plan.

SCHEDULE SB ATTACHMENTS

Provisions Related to Merged Plans

Williamsport

Eligibility for Benefits

Normal retirement	First of month coinciding with or next following the attainment of age 65
Early retirement	Retirement before Normal Retirement Date and on or after both attaining age 55 and completing fifteen years of benefit service or age 62 and completing ten years of benefit service.
Postponed retirement	Retirement after Normal Retirement Date
Disability	Permanent and total disability prior to Normal Retirement Date, following 10 years of benefit service
Death benefits	Death while eligible for normal, early, postponed, deferred vested retirement benefits or participants in retirement, with a surviving spouse

Benefits Paid Upon the Following Events

Normal retirement	A monthly benefit of $22.75 multiplied by years of benefit service.
Early retirement	A monthly benefit of $22.75 multiplied by years of benefit service. The benefit will be reduced by 0.4% for each month that retirement precedes age 62, provided that there will be no reduction if the employee has 30 or more years of benefit service.
Disability	A monthly benefit of $22.75 multiplied by years of benefit service to the date of disablement, payable without reduction after permanent and total disablement following 10 years of benefit service. The monthly disability retirement benefit shall be double the amount determined in the preceding sentence until the employee is eligible for a federal Social Security benefit of disability or age.
Termination	Upon termination of employment after 5 years of vesting service, an employee will be entitled to his accrued benefit payable in full at age 65. The member may elect commencement on or after age 55 if he has 15 years of vesting service or on or after age 62 if he has at least 10 years of vesting service, payable in an actuarially reduced amount.

SCHEDULE SB ATTACHMENTS

Death benefits

Preretirement Death Benefit

In the event of death of a vested employee prior to retirement, his surviving spouse will be entitled to 50% of the accrued benefit, reduced for the 50% joint and survivor option, the early retirement reduction, and the charge for coverage, as of the date of death, payable upon the later of the date of employee's death or early retirement age. There is a coverage charge for this benefit.

Postretirement Death Benefit

The retirement benefits described above based upon election of a straight life form of payment, plus the additional provision that if a retiree dies between ages 65 and 70, then the monthly benefits will continue until the retiree would have attained age 70. Actuarially equivalent optional forms are available.

SCHEDULE SB ATTACHMENTS

Power T&D

Eligibility for Benefits

Normal retirement	First of month coinciding with or next following the attainment of age 65 with five years of service
Early retirement	Retirement before Normal Retirement Date and on or after both attaining age 58 and completing thirty years of eligibility service or age 60 and completing ten years of eligibility service.
Postponed retirement	Retirement after Normal Retirement Date
Preretirement death benefit	Death Pension for Vested Participants Five years of Eligibility Service but does not meet the eligibility of the Death Pension below. Preretirement Death Pension Active Participant age 50 with 15 years of Eligibility Service. Age 60 with10 years of Eligibility Service, 25 years of Eligibility Service or eligible for normal retirement.
Early retirement supplement	Retirement before age 62 on Early Retirement

Benefits Paid Upon the Following Events

Normal retirement	The greater of the career average and the final average benefit.
Early retirement	The benefit at age 60 and 10 years is the greater of (a) the career average benefit, reduced one-fourth of 1% for each month that the employee's early retirement date precedes his normal retirement date or (b) the final average benefit. In addition, the participant will get the supplemental career average benefit reduced by one-third of 1% for each month that the employee's early retirement date precedes his normal retirement date. When an employee retires at age 58 or later with 30 years of service, the benefit is equal to the greater of (a) the career average benefit or (b) the final average benefit; plus, the supplemental career average benefit, the sum of which is reduced by one-third of 1% for each month that the employee's early retirement

date precedes the first of the month after attaining age 60.

An employee that has elected to receive their monthly pension payments as described above but has died after payments have begun but before sixty (60) monthly payments have been paid, the balance of any such sixty payments shall be payable in a lump sum to a beneficiary name by the employee.

Termination

Amount as in Normal/Early retirement benefit above accrued to Date of Termination. The benefit is deferred to early, selected or normal retirement based on Eligibility Service on the date of termination and reduced by one-half of 1% for each month the deferral date precedes normal retirement.

Preretirement death

Death Pension for Vested Participants

Surviving spouse benefit equal to 50% of the Normal/Early retirement benefit described above based on Credited Service on the date of the participant's death. The benefit is deferred to the date that the participant would have attained age 60 and is reduced one-half of 1% for each month prior to normal retirement date if the participant had ten years of Eligibility service at death. Otherwise, the benefit is deferred to the date the participant would have attained age 65. The benefit is further reduced by the table below:

Age Difference Between Employee and Surviving Spouse	Employee Older Than Surviving Spouse	Employee Younger Than Surviving Spouse
0 Years	92.5%	92.5%
1	92.0%	93.0%
2	91.5%	93.5%
3	91.0%	94.0%
Etc.	Decreasing by ½%	Increasing by ½% up to 100%

Preretirement Death Pension

Surviving spouse benefit equal to 55%, payable immediately, of the Normal/Early retirement benefit described above and further reduced by the table above.

Early retirement supplement

T&D Muncie

$11.00 for each year of Credited Service as of date of retirement reduced by the Early Retirement Supplement payable from the prior plan; payable until the first of the month following the month in which the employee attains his 62nd birthday.

T&D Other Locations

$10.00 for each year of Credited Service as of date of retirement reduced by the Early Retirement Supplement payable from the prior plan; payable until the first of the month following the month in which the employee attains his 62nd birthday.

SCHEDULE SB ATTACHMENTS

Other Plan Provisions

Special Supplement	Any Athens employee represented by IBEW 2109 or AWEA who was hired by April 23, 1995 and retires within 3 months of becoming eligible for early retirement based on age 58 with 30 years of service shall receive a $100 per month supplement payable until age 62. Similarly, if he retires within 3 months of attaining age 60 with 25 years of service, he shall receive a $200 per month supplement payable until age 62.

SCHEDULE SB ATTACHMENTS

Electro – Mechanics

Eligibility for Benefits

Early Retirement Eligibility	Age 55 and 10 years.

Benefits Paid Upon the Following Events

Monthly Benefit	The accrued benefit, reduced three tenths of 1% for each month that the employee's early retirement date precedes his normal retirement date.

SCHEDULE SB ATTACHMENTS

Process Analytics

Eligibility for Benefits

Normal retirement	The later of age 65 or 5 years of participation in the Plan.
Early retirement	Retirement before Normal Retirement Date and on or after both attaining age 60 and completing ten years of vesting service
Deferred vested termination	Termination for reasons other than death, disability, or retirement after completing five years of Vesting Service

Benefits Paid Upon the Following Events

Normal retirement

A monthly benefit based on the Benefit Level from the table below, subject to a minimum of 0.5% of five-year average monthly earnings, multiplied by years of Benefit Service.

Termination Date	Benefit Level
Effective 02/01/2016	$39.00
Effective 02/01/2017	$40.00
Effective 02/01/2019	$41.00

Early retirement

The benefit payable at Normal Retirement, based on Benefit Service at retirement and reduced by 5/9 of 1% for each month that retirement precedes age 65.

Deferred vested termination

The monthly pension benefit calculated as for a normal retirement benefit, but based upon Benefit Service at termination, payable in full at age 65 or payable after age 60 reduced by 5/9 of 1% per month that retirement precedes age 65.

SCHEDULE SB ATTACHMENTS

UE (625 & 626)

Eligibility for Benefits

Normal retirement

Retirement at age 65

Early retirement

Retirement before Normal Retirement and on or after both attaining age 55 and completing five years of Credited Service

Deferred vested termination

The benefit is payable at age 65, or payable after age 55 in a reduced amount, provided the employee had completed at least 5 years of Credited Service at the time of termination.

Benefits Paid Upon the Following Events

Normal retirement

A monthly benefit payable equal to 2.6% of Earnings for each year of participation service on and after the Original Effective Date (September 15, 1984 for Local 625, January 1, 1985 for Local 626). However, if Local 626 and more than 10 but less than 25 years of Credited Service, benefits are based on the highest 5 year average of Earnings within the last 10 years prior to retirement. If more than 25 years of Credited Service, the benefit is based on the larger of career average earnings in the first sentence above and final average earnings in the second sentence above. For all participants, the benefit is subject to a minimum of $180 per year for each year of Credited Service.

Early retirement

A monthly benefit calculated based on service to early retirement date. The benefit is payable unreduced at age 62 with 5 years of Vesting Service or age 60 with 35 years of Credited Service. Otherwise, the benefit is reduced as follows:

Age at Retirement	Local 625 and 626 Reduction Factor
62 - 65	100.0%
61	94.0%
60	87.4%
59	81.3%
58	75.5%
57	69.9%
56	63.5%
55	57.9%

SCHEDULE SB ATTACHMENTS

Other Plan Provisions

Special temporary early retirement supplement	Participants who retire between the ages of 56 and 62 with at least 30 years of Credited Service are eligible for a special temporary early retirement supplement. This supplement is equal to $460 per month for Local 625 and $525 per month for Local 626, if the participant begins receiving their pension benefit within 24 months of their last day of active employment. The supplement will be paid until the participant becomes eligible for Social Security benefits or reaches age 62, whichever is first. If the participant dies before age 62, the temporary supplement payments stop. The supplement is reduced if the sum of the participant's monthly pension and the supplement exceeds 70% of the participant's annual pre-retirement pay.

SCHEDULE SB ATTACHMENTS

Crystal Springs

Eligibility for Benefits

Normal retirement

Retirement at the later of age 65 and the 5th anniversary of the date of hire.

Early retirement

Retirement before Normal Retirement Date and on or after both attaining age 60 and completing ten years of Credited Service

Deferred vested termination

Termination for reasons other than death or retirement after completing five years of Vesting Service

Benefits Paid Upon the Following Events

Normal retirement

- Monthly Benefit — The benefit level multiplied by years of credited service
- Benefit Level

Termination Date	Benefit Level
Effective 01/01/1997	$11.00
Effective 01/01/1998	$12.00
Effective 01/01/1999	$13.00
Effective 01/01/2001	$14.00
Effective 01/01/2002	$15.00
Effective 01/01/2003	$16.00

Early retirement

The monthly pension benefit determined as of the early retirement date, reduced 5/9% for each month that retirement precedes Normal Retirement Date.

Deferred vested termination

A monthly benefit equal to the benefit level multiplied by years of Credited Service, payable in full at age 65. The member may elect commencement on or after age 60 if he has at least 10 years of Credited Service. This benefit will be reduced 5/9% for each month that retirement precedes Normal Retirement Date.

SCHEDULE SB ATTACHMENTS

Kuhlman Electric Corporation Salaried Employees' Pension Plan

Plan Provisions

Coverage and Participation	All regular, full-time salaried or clerical employees hired before May 1, 2006 became eligible to participate on the January 1 coincident with or next following their date of hire. Accruals under the plan were frozen as of December 31, 2009.

Definitions

Vesting service	One year for each 1,000-hour calendar year of employment by Kuhlman Electric Corporation.
Pension service	Years and months of service as a covered employee.
Credited service	Based on elapsed time from credited service date, calculated to the nearest 1/12th of a year.
Social Security benefit	The projected amount of the participant's primary Social Security benefit according to the law in effect at the date of termination of employment assuming continuation of then current earnings to age 65.
Normal retirement date (NRD)	First day of the month following the employee's 65th birthday

Eligibility for Benefits

Normal retirement	Retirement on Normal Retirement Date
Early retirement	Retirement before Normal Retirement Date and on or after both attaining age 55 and completing ten years of Vesting Service
Deferred vested termination	Termination for reasons other than death or retirement after completing three years of Vesting Service
Disability	Permanent and total disability prior to Normal Retirement Date
Preretirement death benefit	Death while eligible for normal, early, postponed, or deferred vested retirement benefits, with a surviving spouse

SCHEDULE SB ATTACHMENTS

Benefits Paid Upon the Following Events

Normal retirement

Normal retirement income as an annuity indexed to CPI for the life of the participant (with 66 $^{2}/_{3}$% continuation to the participant's spouse if applicable). The starting value of this annuity is 1/180 times the participant's Account Balance at Benefit Commencement Date.

The Account Balance is initially established on the present value of the benefit accrued under the plan at 12/31/86. Participants earn annual credits to Account Balances equal to 3% of eligible compensation in excess of 1/4th of the Social Security Maximum Taxable Wage Base for that year plus 6% of compensation in excess of 1/4th of the Social Security Maximum Taxable Wage Base. In addition, certain participants are eligible to receive special transitional credits equal to a specified percentage of annual pay. Account Balances are credited with an Interest Credit Percentage at the end of each quarter based on the Account Balance at the beginning of each quarter.

The Interest Credit Percentage is equal to the lesser of:

(i) The Consumer Price Index as measured for the 12-month period ending 3 months prior to the start of the plan year, and

(ii) The 12-month average of the yields of One-Year Treasury Constant Maturities for the 12-month period ending 3 months prior to the start of the plan year.

The Plan was amended effective January 1, 2001 to provide a minimum interest crediting percentage of 5% and a maximum interest crediting rate of 8%.

A minimum benefit applies to all active participants earning benefits under the plan after December 31, 1986 and is equal to five-year average pay times 1.2% times credited service
(to a maximum of 20 years) is payable if it provides a larger benefit.

In no event will the present value of benefits due to a participant commencing payment under the Plan be less than the value of his accrued benefit under the Plan as of December 31, 1986.

Early retirement

The monthly pension benefit determined under the Plan is based on (a) Account Balance at his early retirement date, and (b) his minimum benefit payable as of his normal retirement date reduced 5/9% for each month that benefit commencement precedes age 65 and 5/18% for each month that benefit commencement precedes age 60.

SCHEDULE SB ATTACHMENTS

Deferred vested termination	A participant will be entitled to a deferred vested benefit payable in full at age 65. Participants may elect to receive a reduced benefit on or after age 55 and at least 10 years of Credited Service.
Disablement	Employees continue to receive pay-based credits during the period from the date of disablement until the attainment of age 65, calculated assuming that compensation for the period of disablement is deemed to be equal to the amount of benefits he receives (or would have received if enrolled) under the LTD Group Plan.
Preretirement death	In the event of the death of a vested participant prior to retirement, his surviving spouse will be entitled to 50% of the reduced accrued benefit as of the date of death, payable upon the later of (1) the date of employee's death and (2) the attainment of the employee's earliest retirement age

Other Plan Provisions

Form of Payment

Normal Forms of Payment

- For a member who does not have a spouse, the automatic form of benefit is a monthly life annuity with a five-year certain feature.
- For married members, the automatic form of benefit is an actuarially equivalent 66 2/3% joint and survivor annuity. Alternatively, a member may elect to receive an actuarially equivalent lump sum.

Forms of Payment in Lieu of Normal Forms

- Single Life Annuity
- Joint & Survivor Options (662/3%, 75%, 100%)
- Certain & Life (5, 10 years)
- Lump Sum

Changes in Benefits Valued Since Prior Year

As of December 31, 2021, participants of the Consolidated Hourly Plan and Kuhlman Salaried Plan were merged into the Cash Balance Plan.

SCHEDULE SB ATTACHMENTS

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

	Attained Years of Credited Service[1]										
Attained Age	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	Total
Under 25	0	0	0	0	0	0	0	0	0	0	0
25-29	3	0	0	0	0	0	0	0	0	0	3
30-34	24	5	0	0	0	0	0	0	0	0	29
35-39	20	53	15	0	0	0	0	0	0	0	88
40-44	24	49	34	21	0	0	0	0	0	0	128
45-49	31	46	33	46	10	0	0	0	0	0	166
50-54	34	51	36	66	44	16	1	0	0	0	248
55-59	36	66	42	132	50	51	12	0	0	0	389
60-64	25	34	49	95	36	48	40	6	1	0	334
65-69	12	20	14	38	9	11	7	11	3	0	125
70 & over	1	5	5	10	0	3	0	2	0	0	26
Total	210	329	228	408	149	129	60	19	4	0	1,536

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

Plan Name: ABB Inc. Cash Balance Pension Plan
EIN / PN: 36-3100018/301
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2022

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 26a

Schedule of Active Participant Data for Cash Balance Plans as of January 1, 2022

	Attained Years of Credited Service[2]										
Attained Age	**Under 1**	**1-4**	**5-9**	**10-14**	**15-19**	**20-24**	**25-29**	**30-34**	**35-39**	**40 & Over**	**Total**
Under 25	0	0	0	0	0	0	0	0	0	0	0
	-	-	-	-	-	-	-	-	-	-	-
25-29	3	0	0	0	0	0	0	0	0	0	3
	-	-	-	-	-	-	-	-	-	-	-
30-34	24	5	0	0	0	0	0	0	0	0	29
	4,332	-	-	-	-	-	-	-	-	-	4,315
35-39	20	53	15	0	0	0	0	0	0	0	88
	1,734	11,664	-	-	-	-	-	-	-	-	10,414
40-44	24	49	34	21	0	0	0	0	0	0	128
	2,947	17,265	30,384	44,979	-	-	-	-	-	-	22,612
45-49	31	46	33	46	10	0	0	0	0	0	166
	2,804	24,800	40,714	75,614	-	-	-	-	-	-	40,576
50-54	34	51	36	66	44	16	1	0	0	0	248
	7,387	23,140	48,115	95,587	110,687	-	-	-	-	-	64,529
55-59	36	66	42	132	50	51	12	0	0	0	389
	12,057	39,608	74,556	124,572	161,047	198,264	-	-	-	-	112,268
60-64	25	34	49	95	36	48	40	6	1	0	334
	8,699	38,632	69,965	126,209	150,888	209,750	246,006	-	-	-	129,666
65-69	12	20	14	38	9	11	7	11	3	0	125
	-	34,631	-	111,078	-	-	-	-	-	-	117,632
70 & over	1	5	5	10	0	3	0	2	0	0	26
	-	-	-	-	-	-	-	-	-	-	154,337
Total	210	329	228	408	149	129	60	19	4	0	1,536
	6,096	26,112	53,206	110,638	141,931	189,563	230,878	-	-	-	86,180

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

Plan Name: ABB Inc. Cash Balance Pension Plan
EIN / PN: 36-3100018/301
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2022

SCHEDULE SB ATTACHMENTS

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

Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2022	16,679,597	13,600,401	19,421,576	49,701,574
2023	10,827,382	9,009,096	18,930,485	38,766,963
2024	10,933,474	9,027,386	18,419,458	38,380,318
2025	10,990,242	9,373,557	17,884,853	38,248,652
2026	10,804,433	10,662,030	17,337,991	38,804,454
2027	10,388,909	10,622,752	16,766,081	37,777,742
2028	10,146,054	11,183,749	16,184,355	37,514,158
2029	9,672,672	11,763,599	15,594,596	37,030,867
2030	9,243,825	12,466,228	14,976,436	36,686,489
2031	8,648,771	12,944,603	14,352,300	35,945,674
2032	8,103,998	13,599,913	13,732,453	35,436,364
2033	7,749,564	13,659,968	13,104,672	34,514,204
2034	7,154,723	13,916,203	12,450,823	33,521,749
2035	6,806,039	13,958,963	11,765,014	32,530,016
2036	6,353,182	14,053,852	11,063,158	31,470,192
2037	5,910,951	14,043,935	10,348,326	30,303,212
2038	5,584,779	13,921,919	9,618,887	29,125,585
2039	5,442,714	13,837,960	8,894,694	28,175,368
2040	5,184,529	13,640,172	8,174,938	26,999,639
2041	4,966,282	13,308,079	7,445,807	25,720,168
2042	4,734,405	13,098,076	6,736,365	24,568,846
2043	4,503,667	12,679,153	6,055,172	23,237,992
2044	4,324,515	12,281,267	5,395,631	22,001,413
2045	4,074,367	11,931,577	4,763,971	20,769,915
2046	3,844,458	11,395,820	4,166,072	19,406,350
2047	3,632,995	10,975,313	3,607,180	18,215,488
2048	3,376,300	10,429,791	3,091,594	16,897,685
2049	3,152,197	9,918,352	2,622,431	15,692,980
2050	2,937,382	9,388,620	2,201,475	14,527,477
2051	2,719,212	8,828,674	1,829,142	13,377,028
2052	2,486,768	8,250,201	1,504,522	12,241,491
2053	2,258,831	7,812,933	1,225,504	11,297,268
2054	2,045,790	7,033,663	989,036	10,068,489
2055	1,843,733	6,425,072	791,373	9,060,178
2056	1,645,846	5,840,581	628,338	8,114,765
2057	1,454,336	5,278,452	495,580	7,228,368
2058	1,294,285	4,747,315	388,776	6,430,376
2059	1,133,821	4,249,948	303,793	5,687,562
2060	994,987	3,787,478	236,814	5,019,279
2061	869,149	3,360,182	184,433	4,413,764
2062	755,611	2,967,832	143,721	3,867,164
2063	653,736	2,610,255	112,213	3,376,204
2064	562,906	2,286,310	87,885	2,937,101
2065	482,336	1,994,386	69,116	2,545,838
2066	411,171	1,732,556	54,624	2,198,351
2067	348,584	1,498,733	43,413	1,890,730
2068	293,774	1,290,673	34,717	1,619,164
2069	245,984	1,106,168	27,955	1,380,107
2070	204,513	943,066	22,682	1,170,261
2071	168,714	799,335	18,560	986,609

Plan Name: ABB Inc. Cash Balance Pension Plan
EIN / PN: 36-3100018/301
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2022

SCHEDULE SB ATTACHMENTS

Schedule SB – Statement by Enrolled Actuary

Plan Sponsor	ABB Inc.
EIN/PN	36-3100018/301
Plan Name	ABB Inc. Cash Balance Pension Plan
Valuation Date	January 1, 2022
Enrolled Actuary	John D. Steele
Enrollment Number	23-05326

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

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

SCHEDULE SB ATTACHMENTS

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

The average retirement age for Line 22 was calculated by creating a hypothetical life table with retirement as the only decrement, and then computing the average retirement age for the table.

Age	Retirement Rates	Lives at each Age	Retirements at each Age	Weighted Avg Age
55	4.00%	1.000000	0.040000	2.20
56	5.00%	0.960000	0.048000	2.69
57	6.00%	0.912000	0.054720	3.12
58	6.00%	0.857280	0.051437	2.98
59	6.00%	0.805843	0.048351	2.85
60	7.00%	0.757493	0.053024	3.18
61	10.00%	0.704468	0.070447	4.30
62	12.00%	0.634021	0.076083	4.72
63	13.00%	0.557939	0.072532	4.57
64	16.00%	0.485407	0.077665	4.97
65	30.00%	0.407742	0.122322	7.95
66	30.00%	0.285419	0.085626	5.65
67	30.00%	0.199793	0.059938	4.02
68	30.00%	0.139855	0.041957	2.85
69	30.00%	0.097899	0.029370	2.03
70	100.00%	0.068529	0.068529	4.80
Average age at retirement				62.87
Nearest whole age				**63.00**

Plan Name: ABB Inc. Cash Balance Pension Plan
EIN / PN: 36-3100018/301
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2022

SCHEDULE SB ATTACHMENTS

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

Plan Year	Active Participants	Terminated Vested Participants	Retired Participants and Beneficiaries Receiving Payments	Total
2022	16,679,597	13,600,401	19,421,576	49,701,574
2023	10,827,382	9,009,096	18,930,485	38,766,963
2024	10,933,474	9,027,386	18,419,458	38,380,318
2025	10,990,242	9,373,557	17,884,853	38,248,652
2026	10,804,433	10,662,030	17,337,991	38,804,454
2027	10,388,909	10,622,752	16,766,081	37,777,742
2028	10,146,054	11,183,749	16,184,355	37,514,158
2029	9,672,672	11,763,599	15,594,596	37,030,867
2030	9,243,825	12,466,228	14,976,436	36,686,489
2031	8,648,771	12,944,603	14,352,300	35,945,674
2032	8,103,998	13,599,913	13,732,453	35,436,364
2033	7,749,564	13,659,968	13,104,672	34,514,204
2034	7,154,723	13,916,203	12,450,823	33,521,749
2035	6,806,039	13,958,963	11,765,014	32,530,016
2036	6,353,182	14,053,852	11,063,158	31,470,192
2037	5,910,951	14,043,935	10,348,326	30,303,212
2038	5,584,779	13,921,919	9,618,887	29,125,585
2039	5,442,714	13,837,960	8,894,694	28,175,368
2040	5,184,529	13,640,172	8,174,938	26,999,639
2041	4,966,282	13,308,079	7,445,807	25,720,168
2042	4,734,405	13,098,076	6,736,365	24,568,846
2043	4,503,667	12,679,153	6,055,172	23,237,992
2044	4,324,515	12,281,267	5,395,631	22,001,413
2045	4,074,367	11,931,577	4,763,971	20,769,915
2046	3,844,458	11,395,820	4,166,072	19,406,350
2047	3,632,995	10,975,313	3,607,180	18,215,488
2048	3,376,300	10,429,791	3,091,594	16,897,685
2049	3,152,197	9,918,352	2,622,431	15,692,980
2050	2,937,382	9,388,620	2,201,475	14,527,477
2051	2,719,212	8,828,674	1,829,142	13,377,028
2052	2,486,768	8,250,201	1,504,522	12,241,491
2053	2,258,831	7,812,933	1,225,504	11,297,268
2054	2,045,790	7,033,663	989,036	10,068,489
2055	1,843,733	6,425,072	791,373	9,060,178
2056	1,645,846	5,840,581	628,338	8,114,765
2057	1,454,336	5,278,452	495,580	7,228,368
2058	1,294,285	4,747,315	388,776	6,430,376
2059	1,133,821	4,249,948	303,793	5,687,562
2060	994,987	3,787,478	236,814	5,019,279
2061	869,149	3,360,182	184,433	4,413,764
2062	755,611	2,967,832	143,721	3,867,164
2063	653,736	2,610,255	112,213	3,376,204
2064	562,906	2,286,310	87,885	2,937,101
2065	482,336	1,994,386	69,116	2,545,838
2066	411,171	1,732,556	54,624	2,198,351
2067	348,584	1,498,733	43,413	1,890,730
2068	293,774	1,290,673	34,717	1,619,164
2069	245,984	1,106,168	27,955	1,380,107
2070	204,513	943,066	22,682	1,170,261
2071	168,714	799,335	18,560	986,609

Plan Name: ABB Inc. Cash Balance Pension Plan
EIN / PN: 36-3100018/301
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2022

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V
Summary of Plan Provisions

Plan Provisions

The Plan was adopted on December 1, 1950 and amendments through January 1, 2022 are reflected in the plan provisions.

As of December 31, 2021, participants of the Consolidated Hourly Plan and Kuhlman Salaried Plan were merged into the Cash Balance Plan.

Coverage and participation

First day of the month following employee commencement date. Accruals under the plan were frozen as of December 31, 2011. There will be no new participants in this plan after December 31, 2011.

As of December 31, 2019, inactive participants in the Represented Cash Balance were merged into the plan.

Definitions

Vesting service

100% after 3 years of vesting service. All participants were vested as of December 31, 2011.

Normal retirement date (NRD)

First day of the month coinciding with or next following the attainment of age 65.

Retirement benefit formula

For each year of service, a member's account will be credited with the following percentage of salary:

Age	Percentage
Under 25	2.5%
25 - 29	3.0%
30 - 34	3.5%
35 - 39	4.0%
40 - 44	4.5%
45 - 49	5.0%
50 - 54	5.5%
55 - 59	6.0%
60 and over	6.5%

An additional 2.25% of salary in excess of one-half the Social Security Taxable Wage Base is credited each year.

Pay credits were frozen as of December 31, 2011.

SCHEDULE SB ATTACHMENTS

Transitional credits	A member of the prior plan who as of the date of conversion had attained certain age and service conditions is credited with an additional percentage of his salary for each year of service.
Interest credits	Interest credits on each member's account balance in any year are equal to the Cost of Living Escalator Percentage, which is the highest Consumer Price Index rate for the months of August, September, and October of the previous year plus 300 basis points, but not less than 4% or greater than 9%, however, the resulting rate is limited to the 417(e) third segment rate for August of the previous year. The Percentage was 8% for the plan years beginning January 1, 1992 through January 1, 2001, 6.7% for the plan year beginning January 1, 2002, 5.93% for the plan year beginning January 1, 2003, 6.00% for the plan year beginning January 1, 2004, 6.20% for the plan year beginning January 1, 2005, 7.70% for the plan year beginning January 1, 2006, 6.80% for the plan year beginning January 1, 2007, 6.50% for the plan year beginning January 1, 2008, 8.40% for the plan year beginning January 1, 2009, 4.00% for the plan year beginning January 1, 2010, 4.20% for the plan year beginning January 1, 2011, 6.90% for the plan year beginning January 1, 2012, 5.20% for the plan year beginning January 1, 2013, 4.50% for the plan year beginning January 1, 2014, 4.70% for the plan year beginning January 1, 2015, 4.00% for the plan year beginning January 1, 2016, 4.18% for the plan year beginning January 1, 2017, 4.36% for the plan year beginning January 1, 2018, 4.46% for the plan year beginning January 1, 2019, 4.00% for the plan year beginning January 1, 2020, 4.00% for the plan year beginning January 1, 2021, and 4.00% for the plan year beginning January 1, 2022.
Accrued benefit under prior plan	The accrued benefit under the prior plan, excluding the Retirement Income Plan for Applied Automation, Inc., as of the date of conversion was converted to a lump sum amount as a beginning account balance. Such conversion was based upon an 8% interest rate for the January 1, 1994, January 1, 1992 and December 1, 1988 conversions, and 7.25% for December 1, 1989 conversions, and an assumed retirement age of 65. The accrued benefit under the Applied Automation Plan will be indexed with increases in final average earnings and may be converted to a lump sum at termination.
Accrued monthly annuity benefit	Equal to a five-year certain and continuous annuity payable at age 65 that is actuarial equivalent to the account balance. In no event will the accrued benefit be less than the benefit accrued under the prior plan as of the date of conversion.

SCHEDULE SB ATTACHMENTS

Eligibility for Benefits

Normal retirement	First of month coinciding with or next following the attainment of age 65
Early retirement	First day of the month following attainment of age 55 and completion of 5 years of service (age 55 for Combustion Engineering employees as of December 31, 1991).
Deferred vested termination	Termination for reasons other than death or retirement after completing three years of vesting service
Disability	Upon total and permanent disablement
Preretirement death benefit	Death while eligible for normal, early, postponed, or deferred vested retirement benefits

Benefits Paid Upon the Following Events

Normal retirement	A monthly annuity calculated in accordance with the Retirement Benefit Formula and payable as a Normal Form of Benefit.
Early retirement	A monthly annuity calculated in accordance with the Retirement Benefit Formula and payable as a Normal Form of Benefit at age 65, or payable earlier in an actuarially reduced amount.
Deferred vested termination	A monthly annuity calculated in accordance with the Retirement Benefit Formula and payable as a Normal Form of Benefit at age 65, or payable earlier in an actuarially reduced amount.
Disablement	A member shall be eligible for additional credits each year in accordance with the Retirement Benefit Formula, Transitional Credits, and Interest Credits based upon the member's salary in effect at the time of disability retirement. The additional credits shall cease upon the earlier of recovery or attainment of age 65. A member may elect to receive his accrued benefit at any time, at which time no further credits shall be granted.
Preretirement death	In the event of death of a vested employee prior to retirement, his beneficiary will be entitled to the actuarially equivalent lump sum value of the employee's accrued benefit. If the beneficiary is the employee's surviving spouse, an actuarially equivalent annuity may be received.

SCHEDULE SB ATTACHMENTS

Other Plan Provisions

Forms of payment

Normal Forms of Payment

- For a member who does not have a spouse, the automatic form of benefit is a monthly life annuity with a five-year certain feature.\
- For married members, the automatic form of benefit is an actuarially equivalent 50% joint and survivor annuity with a five-year certain feature. Alternatively, a member may elect to receive an actuarially equivalent lump sum

Forms of Payment in Lieu of Normal Forms

- Single Life Annuity
- Joint & Survivor Options (50%, 67%, 75%, 100%)
- Certain & Life (5, 10, 15, 20 years)
- Lump Sum

Preserved early retirement provision

- Eligibility

1. Prior ABB or Power T&D Active members whose age plus vesting service equalled 65 or more on their date of conversion
2. Active members on their date of conversion who had attained age 55 or whose age plus years of benefit service equalled 60 or more as of that date

- Benefit

The benefit for service prior to the effective date shall be no less than the normal retirement or early retirement benefit accrued under the prior plan, as applicable.

Minimum Benefit for Certain Prior Flakt Plan Members

- Eligibility

Members of the prior Flakt Plan as of December 31, 1993 that were (i) 35-39 and vested, or (ii) at least age 40.

- Benefit

The participant will receive their cash balance account, plus the difference in the value of a life annuity at their date of termination determined under the prior Flakt plan and the life annuity equivalent of the cash balance account at their date of termination. If applicable, this additional benefit will be paid as a life annuity under the terms of the prior Flakt Plan.

SCHEDULE SB ATTACHMENTS

Provisions Related to Merged Plans

Williamsport

Eligibility for Benefits

Normal retirement	First of month coinciding with or next following the attainment of age 65
Early retirement	Retirement before Normal Retirement Date and on or after both attaining age 55 and completing fifteen years of benefit service or age 62 and completing ten years of benefit service.
Postponed retirement	Retirement after Normal Retirement Date
Disability	Permanent and total disability prior to Normal Retirement Date, following 10 years of benefit service
Death benefits	Death while eligible for normal, early, postponed, deferred vested retirement benefits or participants in retirement, with a surviving spouse

Benefits Paid Upon the Following Events

Normal retirement	A monthly benefit of $22.75 multiplied by years of benefit service.
Early retirement	A monthly benefit of $22.75 multiplied by years of benefit service. The benefit will be reduced by 0.4% for each month that retirement precedes age 62, provided that there will be no reduction if the employee has 30 or more years of benefit service.
Disability	A monthly benefit of $22.75 multiplied by years of benefit service to the date of disablement, payable without reduction after permanent and total disablement following 10 years of benefit service. The monthly disability retirement benefit shall be double the amount determined in the preceding sentence until the employee is eligible for a federal Social Security benefit of disability or age.
Termination	Upon termination of employment after 5 years of vesting service, an employee will be entitled to his accrued benefit payable in full at age 65. The member may elect commencement on or after age 55 if he has 15 years of vesting service or on or after age 62 if he has at least 10 years of vesting service, payable in an actuarially reduced amount.

SCHEDULE SB ATTACHMENTS

Death benefits

Preretirement Death Benefit

In the event of death of a vested employee prior to retirement, his surviving spouse will be entitled to 50% of the accrued benefit, reduced for the 50% joint and survivor option, the early retirement reduction, and the charge for coverage, as of the date of death, payable upon the later of the date of employee's death or early retirement age. There is a coverage charge for this benefit.

Postretirement Death Benefit

The retirement benefits described above based upon election of a straight life form of payment, plus the additional provision that if a retiree dies between ages 65 and 70, then the monthly benefits will continue until the retiree would have attained age 70. Actuarially equivalent optional forms are available.

SCHEDULE SB ATTACHMENTS

Power T&D

Eligibility for Benefits

Normal retirement	First of month coinciding with or next following the attainment of age 65 with five years of service
Early retirement	Retirement before Normal Retirement Date and on or after both attaining age 58 and completing thirty years of eligibility service or age 60 and completing ten years of eligibility service.
Postponed retirement	Retirement after Normal Retirement Date
Preretirement death benefit	Death Pension for Vested Participants Five years of Eligibility Service but does not meet the eligibility of the Death Pension below. Preretirement Death Pension Active Participant age 50 with 15 years of Eligibility Service. Age 60 with10 years of Eligibility Service, 25 years of Eligibility Service or eligible for normal retirement.
Early retirement supplement	Retirement before age 62 on Early Retirement

Benefits Paid Upon the Following Events

Normal retirement	The greater of the career average and the final average benefit.
Early retirement	The benefit at age 60 and 10 years is the greater of (a) the career average benefit, reduced one-fourth of 1% for each month that the employee's early retirement date precedes his normal retirement date or (b) the final average benefit. In addition, the participant will get the supplemental career average benefit reduced by one-third of 1% for each month that the employee's early retirement date precedes his normal retirement date. When an employee retires at age 58 or later with 30 years of service, the benefit is equal to the greater of (a) the career average benefit or (b) the final average benefit; plus, the supplemental career average benefit, the sum of which is reduced by one-third of 1% for each month that the employee's early retirement

date precedes the first of the month after attaining age 60.

An employee that has elected to receive their monthly pension payments as described above but has died after payments have begun but before sixty (60) monthly payments have been paid, the balance of any such sixty payments shall be payable in a lump sum to a beneficiary name by the employee.

Termination

Amount as in Normal/Early retirement benefit above accrued to Date of Termination. The benefit is deferred to early, selected or normal retirement based on Eligibility Service on the date of termination and reduced by one-half of 1% for each month the deferral date precedes normal retirement.

Preretirement death

Death Pension for Vested Participants

Surviving spouse benefit equal to 50% of the Normal/Early retirement benefit described above based on Credited Service on the date of the participant's death. The benefit is deferred to the date that the participant would have attained age 60 and is reduced one-half of 1% for each month prior to normal retirement date if the participant had ten years of Eligibility service at death. Otherwise, the benefit is deferred to the date the participant would have attained age 65. The benefit is further reduced by the table below:

Age Difference Between Employee and Surviving Spouse	Employee Older Than Surviving Spouse	Employee Younger Than Surviving Spouse
0 Years	92.5%	92.5%
1	92.0%	93.0%
2	91.5%	93.5%
3	91.0%	94.0%
Etc.	Decreasing by ½%	Increasing by ½% up to 100%

Preretirement Death Pension

Surviving spouse benefit equal to 55%, payable immediately, of the Normal/Early retirement benefit described above and further reduced by the table above.

Early retirement supplement

T&D Muncie

$11.00 for each year of Credited Service as of date of retirement reduced by the Early Retirement Supplement payable from the prior plan; payable until the first of the month following the month in which the employee attains his 62nd birthday.

T&D Other Locations

$10.00 for each year of Credited Service as of date of retirement reduced by the Early Retirement Supplement payable from the prior plan; payable until the first of the month following the month in which the employee attains his 62nd birthday.

SCHEDULE SB ATTACHMENTS

Other Plan Provisions

Special Supplement	Any Athens employee represented by IBEW 2109 or AWEA who was hired by April 23, 1995 and retires within 3 months of becoming eligible for early retirement based on age 58 with 30 years of service shall receive a $100 per month supplement payable until age 62. Similarly, if he retires within 3 months of attaining age 60 with 25 years of service, he shall receive a $200 per month supplement payable until age 62.

SCHEDULE SB ATTACHMENTS

Electro – Mechanics

Eligibility for Benefits

Early Retirement Eligibility	Age 55 and 10 years.

Benefits Paid Upon the Following Events

Monthly Benefit	The accrued benefit, reduced three tenths of 1% for each month that the employee's early retirement date precedes his normal retirement date.

SCHEDULE SB ATTACHMENTS

Process Analytics

Eligibility for Benefits

Normal retirement	The later of age 65 or 5 years of participation in the Plan.
Early retirement	Retirement before Normal Retirement Date and on or after both attaining age 60 and completing ten years of vesting service
Deferred vested termination	Termination for reasons other than death, disability, or retirement after completing five years of Vesting Service

Benefits Paid Upon the Following Events

Normal retirement

A monthly benefit based on the Benefit Level from the table below, subject to a minimum of 0.5% of five-year average monthly earnings, multiplied by years of Benefit Service.

Termination Date	Benefit Level
Effective 02/01/2016	$39.00
Effective 02/01/2017	$40.00
Effective 02/01/2019	$41.00

Early retirement

The benefit payable at Normal Retirement, based on Benefit Service at retirement and reduced by 5/9 of 1% for each month that retirement precedes age 65.

Deferred vested termination

The monthly pension benefit calculated as for a normal retirement benefit, but based upon Benefit Service at termination, payable in full at age 65 or payable after age 60 reduced by 5/9 of 1% per month that retirement precedes age 65.

SCHEDULE SB ATTACHMENTS

UE (625 & 626)

Eligibility for Benefits

Normal retirement

Retirement at age 65

Early retirement

Retirement before Normal Retirement and on or after both attaining age 55 and completing five years of Credited Service

Deferred vested termination

The benefit is payable at age 65, or payable after age 55 in a reduced amount, provided the employee had completed at least 5 years of Credited Service at the time of termination.

Benefits Paid Upon the Following Events

Normal retirement

A monthly benefit payable equal to 2.6% of Earnings for each year of participation service on and after the Original Effective Date (September 15, 1984 for Local 625, January 1, 1985 for Local 626). However, if Local 626 and more than 10 but less than 25 years of Credited Service, benefits are based on the highest 5 year average of Earnings within the last 10 years prior to retirement. If more than 25 years of Credited Service, the benefit is based on the larger of career average earnings in the first sentence above and final average earnings in the second sentence above. For all participants, the benefit is subject to a minimum of $180 per year for each year of Credited Service.

Early retirement

A monthly benefit calculated based on service to early retirement date. The benefit is payable unreduced at age 62 with 5 years of Vesting Service or age 60 with 35 years of Credited Service. Otherwise, the benefit is reduced as follows:

Age at Retirement	Local 625 and 626 Reduction Factor
62 - 65	100.0%
61	94.0%
60	87.4%
59	81.3%
58	75.5%
57	69.9%
56	63.5%
55	57.9%

SCHEDULE SB ATTACHMENTS

Other Plan Provisions

Special temporary early retirement supplement	Participants who retire between the ages of 56 and 62 with at least 30 years of Credited Service are eligible for a special temporary early retirement supplement. This supplement is equal to $460 per month for Local 625 and $525 per month for Local 626, if the participant begins receiving their pension benefit within 24 months of their last day of active employment. The supplement will be paid until the participant becomes eligible for Social Security benefits or reaches age 62, whichever is first. If the participant dies before age 62, the temporary supplement payments stop. The supplement is reduced if the sum of the participant's monthly pension and the supplement exceeds 70% of the participant's annual pre-retirement pay.

SCHEDULE SB ATTACHMENTS

Crystal Springs

Eligibility for Benefits

Normal retirement

Retirement at the later of age 65 and the 5th anniversary of the date of hire.

Early retirement

Retirement before Normal Retirement Date and on or after both attaining age 60 and completing ten years of Credited Service

Deferred vested termination

Termination for reasons other than death or retirement after completing five years of Vesting Service

Benefits Paid Upon the Following Events

Normal retirement

- Monthly Benefit — The benefit level multiplied by years of credited service
- Benefit Level

Termination Date	Benefit Level
Effective 01/01/1997	$11.00
Effective 01/01/1998	$12.00
Effective 01/01/1999	$13.00
Effective 01/01/2001	$14.00
Effective 01/01/2002	$15.00
Effective 01/01/2003	$16.00

Early retirement

The monthly pension benefit determined as of the early retirement date, reduced 5/9% for each month that retirement precedes Normal Retirement Date.

Deferred vested termination

A monthly benefit equal to the benefit level multiplied by years of Credited Service, payable in full at age 65. The member may elect commencement on or after age 60 if he has at least 10 years of Credited Service. This benefit will be reduced 5/9% for each month that retirement precedes Normal Retirement Date.

SCHEDULE SB ATTACHMENTS

Kuhlman Electric Corporation Salaried Employees' Pension Plan

Plan Provisions

Coverage and Participation	All regular, full-time salaried or clerical employees hired before May 1, 2006 became eligible to participate on the January 1 coincident with or next following their date of hire. Accruals under the plan were frozen as of December 31, 2009.

Definitions

Vesting service	One year for each 1,000-hour calendar year of employment by Kuhlman Electric Corporation.
Pension service	Years and months of service as a covered employee.
Credited service	Based on elapsed time from credited service date, calculated to the nearest 1/12th of a year.
Social Security benefit	The projected amount of the participant's primary Social Security benefit according to the law in effect at the date of termination of employment assuming continuation of then current earnings to age 65.
Normal retirement date (NRD)	First day of the month following the employee's 65th birthday

Eligibility for Benefits

Normal retirement	Retirement on Normal Retirement Date
Early retirement	Retirement before Normal Retirement Date and on or after both attaining age 55 and completing ten years of Vesting Service
Deferred vested termination	Termination for reasons other than death or retirement after completing three years of Vesting Service
Disability	Permanent and total disability prior to Normal Retirement Date
Preretirement death benefit	Death while eligible for normal, early, postponed, or deferred vested retirement benefits, with a surviving spouse

SCHEDULE SB ATTACHMENTS

Benefits Paid Upon the Following Events

Normal retirement

Normal retirement income as an annuity indexed to CPI for the life of the participant (with 66 $^{2}/_{3}$% continuation to the participant's spouse if applicable). The starting value of this annuity is 1/180 times the participant's Account Balance at Benefit Commencement Date.

The Account Balance is initially established on the present value of the benefit accrued under the plan at 12/31/86. Participants earn annual credits to Account Balances equal to 3% of eligible compensation in excess of 1/4th of the Social Security Maximum Taxable Wage Base for that year plus 6% of compensation in excess of 1/4th of the Social Security Maximum Taxable Wage Base. In addition, certain participants are eligible to receive special transitional credits equal to a specified percentage of annual pay. Account Balances are credited with an Interest Credit Percentage at the end of each quarter based on the Account Balance at the beginning of each quarter.

The Interest Credit Percentage is equal to the lesser of:

(i) The Consumer Price Index as measured for the 12-month period ending 3 months prior to the start of the plan year, and

(ii) The 12-month average of the yields of One-Year Treasury Constant Maturities for the 12-month period ending 3 months prior to the start of the plan year.

The Plan was amended effective January 1, 2001 to provide a minimum interest crediting percentage of 5% and a maximum interest crediting rate of 8%.

A minimum benefit applies to all active participants earning benefits under the plan after December 31, 1986 and is equal to five-year average pay times 1.2% times credited service
(to a maximum of 20 years) is payable if it provides a larger benefit.

In no event will the present value of benefits due to a participant commencing payment under the Plan be less than the value of his accrued benefit under the Plan as of December 31, 1986.

Early retirement

The monthly pension benefit determined under the Plan is based on (a) Account Balance at his early retirement date, and (b) his minimum benefit payable as of his normal retirement date reduced 5/9% for each month that benefit commencement precedes age 65 and 5/18% for each month that benefit commencement precedes age 60.

SCHEDULE SB ATTACHMENTS

Deferred vested termination	A participant will be entitled to a deferred vested benefit payable in full at age 65. Participants may elect to receive a reduced benefit on or after age 55 and at least 10 years of Credited Service.
Disablement	Employees continue to receive pay-based credits during the period from the date of disablement until the attainment of age 65, calculated assuming that compensation for the period of disablement is deemed to be equal to the amount of benefits he receives (or would have received if enrolled) under the LTD Group Plan.
Preretirement death	In the event of the death of a vested participant prior to retirement, his surviving spouse will be entitled to 50% of the reduced accrued benefit as of the date of death, payable upon the later of (1) the date of employee's death and (2) the attainment of the employee's earliest retirement age

Other Plan Provisions

Form of Payment

Normal Forms of Payment

- For a member who does not have a spouse, the automatic form of benefit is a monthly life annuity with a five-year certain feature.
- For married members, the automatic form of benefit is an actuarially equivalent 66 2/3% joint and survivor annuity. Alternatively, a member may elect to receive an actuarially equivalent lump sum.

Forms of Payment in Lieu of Normal Forms

- Single Life Annuity
- Joint & Survivor Options (662/3%, 75%, 100%)
- Certain & Life (5, 10 years)
- Lump Sum

Changes in Benefits Valued Since Prior Year

As of December 31, 2021, participants of the Consolidated Hourly Plan and Kuhlman Salaried Plan were merged into the Cash Balance Plan.

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 24
Change in Actuarial Assumptions

The following changes were made to non-prescribed actuarial assumptions for 2022:

- The assumed plan-related expenses added to the target normal cost were changed from $4,410,000 for 2021 to $3,720,000 for 2022.
- The interest crediting rate assumption changed from 4.00% in 2021 and 5.00% per year thereafter to 4.00% in 2022 and 5.00% per year thereafter.
- The form of payment assumption for the Cash Balance Plan and prior Kuhlman Salaried Plan participants was updated to better reflect recent experience.
- For prior Consolidated Hourly participants, termination and retirement rates were changed to align with the Cash Balance Plan rates in conjunction with its merger into the Cash Balance Plan as of 12/31/2021.
- For prior Kuhlman Salaried participants, retirement rates were changed to align with the Cash Balance Plan rates in conjunction with its merger into the Cash Balance Plan as of 12/31/2021.