

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). <p style="text-align: center;">▶ Complete all entries in accordance with the instructions to the Form 5500.</p>	OMB Nos. 1210-0110 1210-0089 <div style="text-align: center; font-size: 1.5em; font-weight: bold;">2019</div> This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2019 or fiscal plan year beginning <u>01/01/2019</u> and ending <u>12/31/2019</u>	
A	This return/report is for: <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div> ☐ a multiemployer plan </div> <div> ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) </div> </div> <div style="margin-top: 5px;"> ☒ a single-employer plan <div style="margin-left: 100px;">☐ a DFE (specify) _____</div> </div>
B	This return/report is: <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div> ☐ the first return/report ☐ an amended return/report </div> <div> ☐ the final return/report ☐ a short plan year return/report (less than 12 months) </div> </div>
C	If the plan is a collectively-bargained plan, check here. ☒
D	Check box if filing under: <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div> ☒ Form 5558 ☐ special extension (enter description) </div> <div> ☐ automatic extension </div> <div> ☐ the DFVC program </div> </div>

Part II	Basic Plan Information —enter all requested information
1a	Name of plan <u>CRYSTAL SPRINGS PLANT-KUHLMAN ELECTRIC CORPORATION RETIREMENT INCOME PLAN</u>
1b	Three-digit plan number (PN) ▶ <u>002</u>
1c	Effective date of plan <u>09/01/1967</u>
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) <u>ABB INC.</u> <u>305 GREGSON DRIVE</u> <u>CARY, NC 27511</u>
2b	Employer Identification Number (EIN) <u>36-3100018</u>
2c	Plan Sponsor's telephone number <u>919-856-2360</u>
2d	Business code (see instructions) <u>335900</u>

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

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

SIGN HERE	Filed with authorized/valid electronic signature.	10/13/2020	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

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

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3a Plan administrator's name and address ☒ Same as Plan Sponsor	3b Administrator's EIN 3c Administrator's telephone number <div style="background-color: #cccccc; height: 40px; width: 100%;"></div>
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name KUHLMAN ELECTRIC CORPORATION c Plan Name CRYSTAL SPRINGS PLANT-KUHLMAN ELECTRIC CORPORATION RETIREMENT INCOME PLAN	4b EIN 38-0736390 4d PN 002
5 Total number of participants at the beginning of the plan year	5 203
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	<div style="background-color: #cccccc; height: 20px; width: 100%;"></div> 6a(1) 39 6a(2) 38 6b 77 6c 58 6d 173 6e 24 6f 197 6g 0 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 3H b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:	

9a Plan funding arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor
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10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules

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

b General Schedules

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

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

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

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

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

11c Enter the Receipt Confirmation Code for the 2019 Form M-1 annual report. If the plan was not required to file the 2019 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 2019 This Form is Open to Public Inspection
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For calendar plan year 2019 or fiscal plan year beginning 01/01/2019 and ending 12/31/2019

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

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

A Name of plan <u>CRYSTAL SPRINGS PLANT-KUHLMAN ELECTRIC CORPORATION RETIREMENT INCOME PLAN</u>	B Three-digit plan number (PN) ▶ <u>002</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>ABB INC.</u>	D Employer Identification Number (EIN) <u>36-3100018</u>
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I	Basic Information
1 Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2019</u>	
2 Assets:	
a Market value	2a <u>6592070</u>
b Actuarial value	2b <u>6944896</u>
3 Funding target/participant count breakdown	
a For retired participants and beneficiaries receiving payment.....	(1) Number of participants <u>101</u> (2) Vested Funding Target <u>4029307</u> (3) Total Funding Target <u>4029307</u>
b For terminated vested participants.....	<u>63</u> <u>907209</u> <u>907209</u>
c For active participants	<u>39</u> <u>1567835</u> <u>1602924</u>
d Total.....	<u>203</u> <u>6504351</u> <u>6539440</u>
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐	
a Funding target disregarding prescribed at-risk assumptions	4a
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor.....	4b
5 Effective interest rate	5 <u>5.50</u> %
6 Target normal cost.....	6 <u>87198</u>

Statement by Enrolled Actuary

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

SIGN HERE	
Signature of actuary <u>JOHN D. STEELE</u>	<u>09/15/2020</u> Date
Type or print name of actuary <u>WILLIS TOWERS WATSON US LLC</u>	<u>20-05326</u> Most recent enrollment number
Firm name <u>3001 SUMMER STREET</u> <u>FLOOR 5</u> <u>STAMFORD, CT 06905</u>	<u>203-326-5400</u> Telephone number (including area code)
Address of the firm	

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

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

Schedule SB (Form 5500) 2019
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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)	0	786078
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)	0	786078
10 Interest on line 9 using prior year's actual return of <u>-4.54</u> %	0	-35688
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		0
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.67</u> %		0
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance		0
d Portion of (c) to be added to prefunding balance		0
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	750390

Part III Funding Percentages

14 Funding target attainment percentage	14	94.72 %
15 Adjusted funding target attainment percentage	15	106.20 %
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	101.88 %
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:
3.74 %2nd segment:
5.35 %3rd segment:
6.11 %☐ N/A, full yield curve used**b** Applicable month (enter code)**21b**

4

22 Weighted average retirement age**22**

64

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** Is the plan required to provide a Schedule of Active Participants? 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 6) **31a** 87198**b** Excess assets, if applicable, but not greater than line 31a **31b** 0**32** Amortization installments:**a** Net shortfall amortization installment Outstanding Balance 344934 Installment 56048**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** 143246

	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	143246	143246

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 Pension Relief Act of 2010 (See Instructions)****41** If an election was made to use PRA 2010 funding relief for this plan:**a** Schedule elected ☐ 2 plus 7 years ☐ 15 years**b** Eligible plan year(s) for which the election in line 41a was made ☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011

<div>SCHEDULE C</div> <div>(Form 5500)</div> <div>Department of the Treasury Internal Revenue Service</div> <div>Department of Labor Employee Benefits Security Administration</div> <div>Pension Benefit Guaranty Corporation</div>	<div>Service Provider Information</div> <div>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA).</div> <div>▶ File as an attachment to Form 5500.</div>	OMB No. 1210-0110
		2019
		This Form is Open to Public Inspection.

For calendar plan year 2019 or fiscal plan year beginning 01/01/2019 and ending 12/31/2019		
A Name of plan CRYSTAL SPRINGS PLANT-KUHLMAN ELECTRIC CORPORATION RETIREMENT INCOME PLAN	B Three-digit plan number (PN) ▶	002
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)
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You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

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

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
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-BUYOUT
04-3464299

(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

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

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

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

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

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

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	14200	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

PIMCO

33-0629048

(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	8772	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(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	6340	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

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

BNY MELLON

13-5160382

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
21 50	NONE	3653	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(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	2443	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

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

GMO EDO FUND

27-2982895

(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	1835	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

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

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

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	1091	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

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

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

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

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

Part I Service Provider Information (continued)

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

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(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:

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

<div>SCHEDULE G (Form 5500) Department of Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration</div>	<div>Financial Transaction Schedules</div> <div>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).</div> <div>► File as an attachment to Form 5500.</div>	<div>OMB No. 1210-0110</div> <div>2019</div> <div>This Form is Open to Public Inspection.</div>
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For calendar plan year 2019 or fiscal plan year beginning 01/01/2019 and ending 12/31/2019		
A Name of plan CRYSTAL SPRINGS PLANT-KUHLMAN ELECTRIC CORPORATION RETIREMENT INCOME PLAN		B Three-digit plan number (PN) ► 002
C Plan sponsor's name as shown on line 2a of Form 5500 ABB INC.		D Employer Identification Number (EIN) 36-3100018

Part I	Schedule of Loans or Fixed Income Obligations in Default or Classified as Uncollectible Complete as many entries as needed to report all loans or fixed income obligations in default or classified as uncollectible. Check box (a) if obligor is known to be a party in interest. Attach Overdue Loan Explanation for each loan listed. See Instructions.
--------	--

(a)	(b) Identity and address of obligor	(c) Detailed description of loan including dates of making and maturity, interest rate, the type and value of collateral, any renegotiation of the loan and the terms of the renegotiation, and other material items
☐		

	Amount received during reporting year			Amount overdue	
(d) Original amount of loan	(e) Principal	(f) Interest	(g) Unpaid balance at end of year	(h) Principal	(i) Interest

(a)	(b) Identity and address of obligor	(c) Detailed description of loan including dates of making and maturity, interest rate, the type and value of collateral, any renegotiation of the loan and the terms of the renegotiation, and other material items
☐		

	Amount received during reporting year			Amount overdue	
(d) Original amount of loan	(e) Principal	(f) Interest	(g) Unpaid balance at end of year	(h) Principal	(i) Interest

(a)	(b) Identity and address of obligor	(c) Detailed description of loan including dates of making and maturity, interest rate, the type and value of collateral, any renegotiation of the loan and the terms of the renegotiation, and other material items
☐		

	Amount received during reporting year			Amount overdue	
(d) Original amount of loan	(e) Principal	(f) Interest	(g) Unpaid balance at end of year	(h) Principal	(i) Interest

(a)	(b) Identity and address of obligor		(c) Detailed description of loan including dates of making and maturity, interest rate, the type and value of collateral, any renegotiation of the loan and the terms of the renegotiation, and other material items		
☐					
		Amount received during reporting year		Amount overdue	
(d) Original amount of loan	(e) Principal	(f) Interest	(g) Unpaid balance at end of year	(h) Principal	(i) Interest

(a)	(b) Identity and address of obligor		(c) Detailed description of loan including dates of making and maturity, interest rate, the type and value of collateral, any renegotiation of the loan and the terms of the renegotiation, and other material items		
☐					
		Amount received during reporting year		Amount overdue	
(d) Original amount of loan	(e) Principal	(f) Interest	(g) Unpaid balance at end of year	(h) Principal	(i) Interest

(a)	(b) Identity and address of obligor		(c) Detailed description of loan including dates of making and maturity, interest rate, the type and value of collateral, any renegotiation of the loan and the terms of the renegotiation, and other material items		
☐					
		Amount received during reporting year		Amount overdue	
(d) Original amount of loan	(e) Principal	(f) Interest	(g) Unpaid balance at end of year	(h) Principal	(i) Interest

(a)	(b) Identity and address of obligor		(c) Detailed description of loan including dates of making and maturity, interest rate, the type and value of collateral, any renegotiation of the loan and the terms of the renegotiation, and other material items		
☐					
		Amount received during reporting year		Amount overdue	
(d) Original amount of loan	(e) Principal	(f) Interest	(g) Unpaid balance at end of year	(h) Principal	(i) Interest

(a)	(b) Identity and address of obligor		(c) Detailed description of loan including dates of making and maturity, interest rate, the type and value of collateral, any renegotiation of the loan and the terms of the renegotiation, and other material items		
☐					
		Amount received during reporting year		Amount overdue	
(d) Original amount of loan	(e) Principal	(f) Interest	(g) Unpaid balance at end of year	(h) Principal	(i) Interest

Part II Schedule of Leases in Default or Classified as Uncollectible

Complete as many entries as needed to report all leases in default or classified as uncollectible. Check box (a) if lessor or lessee is known to be a party in interest. Attach Overdue Lease Explanation for each lease listed. (See instructions)

(a)	(b) Identity of lessor/lessee	(c) Relationship to plan, employer, employee organization, or other party-in-interest	(d) Terms and description (type of property, location and date it was purchased, terms regarding rent, taxes, insurance, repairs, expenses, renewal options, date property was leased)			
☐						
(e) Original cost	(f) Current value at time of lease	(g) Gross rental receipts during the plan year	(h) Expenses paid during the plan year	(i) Net receipts	(j) Amount in arrears	

(a)	(b) Identity of lessor/lessee	(c) Relationship to plan, employer, employee organization, or other party-in-interest	(d) Terms and description (type of property, location and date it was purchased, terms regarding rent, taxes, insurance, repairs, expenses, renewal options, date property was leased)			
☐						
(e) Original cost	(f) Current value at time of lease	(g) Gross rental receipts during the plan year	(h) Expenses paid during the plan year	(i) Net receipts	(j) Amount in arrears	

(a)	(b) Identity of lessor/lessee	(c) Relationship to plan, employer, employee organization, or other party-in-interest	(d) Terms and description (type of property, location and date it was purchased, terms regarding rent, taxes, insurance, repairs, expenses, renewal options, date property was leased)			
☐						
(e) Original cost	(f) Current value at time of lease	(g) Gross rental receipts during the plan year	(h) Expenses paid during the plan year	(i) Net receipts	(j) Amount in arrears	

(a)	(b) Identity of lessor/lessee	(c) Relationship to plan, employer, employee organization, or other party-in-interest	(d) Terms and description (type of property, location and date it was purchased, terms regarding rent, taxes, insurance, repairs, expenses, renewal options, date property was leased)			
☐						
(e) Original cost	(f) Current value at time of lease	(g) Gross rental receipts during the plan year	(h) Expenses paid during the plan year	(i) Net receipts	(j) Amount in arrears	

(a)	(b) Identity of lessor/lessee	(c) Relationship to plan, employer, employee organization, or other party-in-interest	(d) Terms and description (type of property, location and date it was purchased, terms regarding rent, taxes, insurance, repairs, expenses, renewal options, date property was leased)			
☐						
(e) Original cost	(f) Current value at time of lease	(g) Gross rental receipts during the plan year	(h) Expenses paid during the plan year	(i) Net receipts	(j) Amount in arrears	

(a)	(b) Identity of lessor/lessee	(c) Relationship to plan, employer, employee organization, or other party-in-interest	(d) Terms and description (type of property, location and date it was purchased, terms regarding rent, taxes, insurance, repairs, expenses, renewal options, date property was leased)			
☐						
(e) Original cost	(f) Current value at time of lease	(g) Gross rental receipts during the plan year	(h) Expenses paid during the plan year	(i) Net receipts	(j) Amount in arrears	

(a)	(b) Identity of lessor/lessee	(c) Relationship to plan, employer, employee organization, or other party-in-interest	(d) Terms and description (type of property, location and date it was purchased, terms regarding rent, taxes, insurance, repairs, expenses, renewal options, date property was leased)			
☐						
(e) Original cost	(f) Current value at time of lease	(g) Gross rental receipts during the plan year	(h) Expenses paid during the plan year	(i) Net receipts	(j) Amount in arrears	

Part III Nonexempt Transactions

Complete as many entries as needed to report all nonexempt transactions. **Caution:** If a nonexempt prohibited transaction occurred with respect to a disqualified person, file Form 5330 with the IRS to pay the excise tax on the transaction.

(a) Identity of party involved	(b) Relationship to plan, employer, or other party-in-interest	(c) Description of transaction including maturity date, rate of interest, collateral, par or maturity value		(d) Purchase price	
ABB INC.	PLAN SPONSOR	USE OF PLAN ASSETS FOR ADMINISTRATIVE EXPENSES			
(e) Selling price	(f) Lease rental	(g) Transaction expenses	(h) Cost of asset	(i) Current value of asset	(j) Net gain (or loss) on each transaction
				1750	

(a) Identity of party involved	(b) Relationship to plan, employer, or other party-in-interest	(c) Description of transaction including maturity date, rate of interest, collateral, par or maturity value		(d) Purchase price	
(e) Selling price	(f) Lease rental	(g) Transaction expenses	(h) Cost of asset	(i) Current value of asset	(j) Net gain (or loss) on each transaction

(a) Identity of party involved	(b) Relationship to plan, employer, or other party-in-interest	(c) Description of transaction including maturity date, rate of interest, collateral, par or maturity value		(d) Purchase price	
(e) Selling price	(f) Lease rental	(g) Transaction expenses	(h) Cost of asset	(i) Current value of asset	(j) Net gain (or loss) on each transaction

(a) Identity of party involved	(b) Relationship to plan, employer, or other party-in-interest	(c) Description of transaction including maturity date, rate of interest, collateral, par or maturity value		(d) Purchase price	
(e) Selling price	(f) Lease rental	(g) Transaction expenses	(h) Cost of asset	(i) Current value of asset	(j) Net gain (or loss) on each transaction

(a) Identity of party involved	(b) Relationship to plan, employer, or other party-in-interest	(c) Description of transaction including maturity date, rate of interest, collateral, par or maturity value		(d) Purchase price	
(e) Selling price	(f) Lease rental	(g) Transaction expenses	(h) Cost of asset	(i) Current value of asset	(j) Net gain (or loss) on each transaction

(a) Identity of party involved	(b) Relationship to plan, employer, or other party-in-interest	(c) Description of transaction including maturity date, rate of interest, collateral, par or maturity value		(d) Purchase price	
(e) Selling price	(f) Lease rental	(g) Transaction expenses	(h) Cost of asset	(i) Current value of asset	(j) Net gain (or loss) on each transaction

(a) Identity of party involved	(b) Relationship to plan, employer, or other party-in-interest	(c) Description of transaction including maturity date, rate of interest, collateral, par or maturity value		(d) Purchase price	
(e) Selling price	(f) Lease rental	(g) Transaction expenses	(h) Cost of asset	(i) Current value of asset	(j) Net gain (or loss) on each transaction

SCHEDULE H (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	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 2019 This Form is Open to Public Inspection
For calendar plan year 2019 or fiscal plan year beginning 01/01/2019 and ending 12/31/2019		
A Name of plan CRYSTAL SPRINGS PLANT-KUHLMAN ELECTRIC CORPORATION RETIREMENT INCOME PLAN		B Three-digit plan number (PN) ► 002
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)		
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)	6580018	7169559
(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	6580018 7169559
Liabilities			
g	Benefit claims payable	1g	
h	Operating payables	1h	6529 5749
i	Acquisition indebtedness	1i	
j	Other liabilities	1j	
k	Total liabilities (add all amounts in lines 1g through 1j)	1k	6529 5749
Net Assets			
l	Net assets (subtract line 1k from line 1f)	1l	6573489 7163810

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.

		(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)		1054163
(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		1054163

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	386316	
(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)		386316
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)	18237	
(2) Contract administrator fees	2i(2)	6509	
(3) Investment advisory and management fees	2i(3)	19304	
(4) Other	2i(4)	33476	
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		77526
j Total expenses. Add all expense amounts in column (b) and enter total	2j		463842

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		590321
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

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

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

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

b Did the accountant perform a limited scope audit pursuant to 29 CFR 2520.103-8 and/or 103-12(d)?

☒ Yes ☐ No

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

(1) Name: GRANT THORNTON LLP

(2) EIN: 36-6055558

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

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

Part IV Compliance Questions

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

During the plan year:

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

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.)

	Yes	No	Amount
4a		X	
4b		X	

	Yes	No	Amount
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.)		X	
4c			
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.).....	X		1750
4d			
e Was this plan covered by a fidelity bond?	X		40000000
4e			
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
4f			
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?.....		X	
4g			
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?.....		X	
4h			
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)		X	
4i			
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked, and see instructions for format requirements.)		X	
4j			
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		X	
4k			
l Has the plan failed to provide any benefit when due under the plan?.....		X	
4l			
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)		X	
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 If the plan is a defined benefit plan, is it covered under the PBGC insurance program (See ERISA section 4021.)? ☒ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 4225091. (See instructions.)

<div>SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</div>	<div>Retirement Plan Information</div> <div>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).</div> <div>▶ File as an attachment to Form 5500.</div>	<div>OMB No. 1210-0110</div> <div>2019</div> <div>This Form is Open to Public Inspection.</div>
For calendar plan year 2019 or fiscal plan year beginning 01/01/2019 and ending 12/31/2019		
A Name of plan CRYSTAL SPRINGS PLANT-KUHLMAN ELECTRIC CORPORATION RETIREMENT INCOME PLAN		B Three-digit plan number (PN) ▶ 002
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 0
Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)	
4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ☐ Yes ☒ No ☐ N/A If the plan is a defined benefit plan, go to line 8.		
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.		
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)		6a
b Enter the amount contributed by the employer to the plan for this plan year		6b
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount)		6c
If you completed line 6c, skip lines 8 and 9.		
7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ☐ Yes ☐ No ☐ N/A		
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ☐ Yes ☐ No ☒ N/A		
Part III	Amendments	
9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box. ☐ Increase ☐ Decrease ☐ Both ☒ No		
Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.	
10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan? ☐ Yes ☐ No		
11 a Does the ESOP hold any preferred stock? ☐ Yes ☐ No		
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.) ☐ Yes ☐ No		
12 Does the ESOP hold any stock that is not readily tradable on an established securities market? ☐ Yes ☐ No		
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.		
Schedule R (Form 5500) 2019 v. 190130		

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that contributed more than 5% of total contributions to the plan during the plan year (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 participants on whose behalf no contributions were made by an employer as an employer of the participant for:

a The current year

b The plan year immediately preceding the current plan year

c The second preceding plan year

14a**14b****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

b The corresponding number for the second preceding plan year

15a**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

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

16a**16b**

- 17** If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment. ☐

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

- 18** If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐

- 19** If the total number of participants is 1,000 or more, complete lines (a) through (c)

- a** Enter the percentage of plan assets held as:

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

- b** Provide the average duration of the combined investment-grade and high-yield debt:

☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more

- c** What duration measure was used to calculate line 19(b)?

☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify): _____

- 20 PBGC missed contribution reporting requirements.** If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20.

- a** Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☐ No

- b** If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:

☐ Yes.

☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date.

☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date.

☐ No. Other. Provide explanation _____

Financial Statements and Report of
Independent Certified Public
Accountants

**Crystal Springs Plant of Kuhlman Electric
Corporation Retirement Income Plan**

December 31, 2019 and 2018

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REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

Trustees

Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan

Report on the financial statements

We were engaged to audit the accompanying financial statements of Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan (the "Plan"), which comprise the statements of net assets available for benefits as of December 31, 2019 and 2018, the related statements of changes in net assets available for benefits for the years ended December 31, 2019 and 2018, the statements of accumulated plan benefits as of December 31, 2019 and 2018, the related statements of changes in accumulated plan benefits for the years ended December 31, 2019 and 2018, and the related notes to the financial statements.

Management's responsibility for the financial statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes 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.

Auditor's responsibility

Our responsibility is to express an opinion on these financial statements based on conducting the audit in accordance with auditing standards generally accepted in the United States of America. Because of the matter described in the Basis for Disclaimer of Opinion paragraph; however, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion.

Basis for disclaimer of opinion

As permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974, the Plan administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the certified information described in Note 5, except for comparing such information with the related information included in the financial statements. We have been informed by the Plan administrator that the certifying entity meets the requirements of 29 CFR 2520.103-8. The Plan administrator obtained certifications from this entity as of and for the years ended December 31, 2019 and 2018, stating that the certified information provided to the Plan administrator is complete and accurate.

Disclaimer of opinion

Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we have not been able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion. Accordingly, we do not express an opinion on these financial statements.

Supplementary information

The supplemental Schedule G, Part III – Schedule of nonexempt transactions for the year ended December 31, 2019 is presented for purposes of additional analysis and is not a required part of the financial statements, but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we do not express an opinion on the supplemental schedule.

Report on form and content in compliance with DOL rules and regulations

The form and content of the information included in the financial statements and supplemental information, other than that derived from the certified information described in Note 5, have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974.



Raleigh, North Carolina
October 9, 2020

Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan

STATEMENTS OF NET ASSETS AVAILABLE FOR BENEFITS

December 31,

	2019	2018
Assets		
Interest in the ABB Inc. Master Trust, at fair value	<u>\$ 7,169,559</u>	<u>\$ 6,580,018</u>
Total assets	<u>7,169,559</u>	<u>6,580,018</u>
Liabilities		
Accrued expenses	<u>5,749</u>	<u>6,529</u>
Total liabilities	<u>5,749</u>	<u>6,529</u>
Net assets available for benefits	<u><u>\$ 7,163,810</u></u>	<u><u>\$ 6,573,489</u></u>

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

Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan

STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR BENEFITS

For the Years Ended December 31,

	2019	2018
Additions to (deductions from) net assets attributed to:		
Plan interest in net investment gain (loss) of the ABB Inc. Master Trust	\$ 1,054,163	\$ (312,441)
Benefits paid to participants	(386,316)	(379,160)
Administrative and other expenses	<u>(77,526)</u>	<u>(57,626)</u>
Net increase (decrease)	590,321	(749,227)
Net assets available for benefits:		
Beginning of year	<u>6,573,489</u>	<u>7,322,716</u>
End of year	<u><u>\$ 7,163,810</u></u>	<u><u>\$ 6,573,489</u></u>

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

Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan

STATEMENTS OF ACCUMULATED PLAN BENEFITS

December 31,

	2019	2018
	<hr/>	<hr/>
Actuarial present value of accumulated plan benefits:		
Vested benefits:		
Participants currently receiving benefits	\$ 5,462,436	\$ 4,892,230
Other participants	<hr/> 2,615,240	<hr/> 2,255,853
Total vested benefits	<hr/> 8,077,676	<hr/> 7,148,083
Total actuarial present value of accumulated plan benefits	<hr/> \$ 8,077,676	<hr/> \$ 7,148,083

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

Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan

STATEMENTS OF CHANGES IN ACCUMULATED PLAN BENEFITS

For the Years Ended December 31,

	2019	2018
Actuarial present value of accumulated plan benefits, beginning of year	\$ 7,148,083	\$ 8,103,881
Increase (decrease) during the year attributable to:		
Benefits accumulated and plan experience	210,555	(83,044)
Changes in actuarial assumptions	824,320	(762,581)
Increase for interest due to decrease in discount period	281,033	268,987
Benefits paid	<u>(386,315)</u>	<u>(379,160)</u>
Net increase (decrease)	<u>929,593</u>	<u>(955,798)</u>
Actuarial present value of accumulated plan benefits, end of year	<u>\$ 8,077,676</u>	<u>\$ 7,148,083</u>

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

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS

December 31, 2019 and 2018

NOTE 1 - PLAN DESCRIPTION

The following brief description of the Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan (the Plan) is provided for general information purposes only. Participants should refer to the plan document for more complete information.

General

The Plan was established effective September 1, 1967, to provide retirement benefits to eligible employees of Kuhlman Electric Corporation (the Company or Employer). Kuhlman Electric Corporation was acquired by ABB Inc. in 2008. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended (ERISA). The Plan is also subject to the agreement effective November 7, 1998 with The International Union of Electronic, Electrical, Salaried, Machine and Furniture Workers, AFL-CIO and its Local 799. The latest amendment is Amendment four dated December 13, 2019 transferring sponsorship of the Plan from the Kuhlman Electric Corporation to ABB Inc. effective December 31, 2019.

Participation and Vesting

Participants are 100% vested after completing five years of eligibility service. Effective November 8, 2004, the Plan was amended to freeze credited service. The Plan was amended effective April 30, 2006 to freeze participation in the Plan to new employees. The Plan was subsequently amended in November 2006 to allow individuals who were active employees currently working as of November 3, 2006 who had been participants accruing benefits in the Plan immediately prior to November 8, 2004 when benefit accruals were frozen, to be credited with service and accruals from November 8, 2004 through the end of the plan year, and to continue to accrue benefits for the term of the collective bargaining contract which expired in 2011. In addition, the Plan was amended effective December 31, 2019, to freeze future benefit accruals under the Plan.

Pension Benefits

Participants with five or more years of service are entitled to annual pension benefits beginning at normal retirement age (65) equal to their credited service multiplied by the benefit rate in effect on their last day of work. The Plan permits early retirement for those eligible employees attaining age 60 with at least 10 years of credited service. The accrued benefit will either be deferred to age 65 or payable immediately, but reduced 5/9 of 1% for each month prior to age 65. Employees may elect to receive the value of their accumulated plan benefits in one of the following forms as described in the Plan: 1) a life annuity option, 2) a surviving spouse option or 3) a 60 month option.

Active covered employees who have provided at least 10 years of service to the Company and who become permanently and totally disabled receive permanent and total disability retirement benefits that are equal to the normal retirement benefits they have accumulated as of the time they become disabled, reduced by any workers' compensation benefits received.

Disability retirement benefits are paid until normal retirement age (65) at which time, disabled participants begin receiving normal retirement benefits computed as though they had been employed to normal retirement age with their credited service remaining the same as at the time they became disabled.

When a covered or vested employee dies, the employee's benefits or remaining benefits (if the distribution of benefits has commenced), if any, shall be distributed to the participant's beneficiary. If, after completing five years of service, a covered or vested employee under the age of 60 dies, a death benefit equal to that which would be available under the surviving spouse option is paid to the employee's legal spouse of one year, provided the pre-retirement survivor annuity coverage is in effect.

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

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.

Recent Accounting Pronouncement

In February 2017, the FASB issued ASU 2017-06, "Plan Accounting: Employee Benefit Plan Master Trust Reporting." The amendments in the ASU clarify presentation requirements for a plan's interest in a master trust and require more detailed disclosures of the Plan's interest in the Master Trust. The ASU relates primarily to how a plan reports its interest in a master trust. For each master trust in which a plan holds an interest, the plan is required to disclose, as separate line items, the plan's interest in the statement of net assets available for benefits and any changes in that interest in the statement of changes in net assets available for benefits. In addition, a plan with a divided interest in the individual investments of the master trust is no longer be required to disclose its percentage interest in the master trust, but rather is required to disclose the master trust's investments by general type and the individual plan's dollar amount of its interest in the master trust's investments by general type. Further, all plans are required to disclose both their master trust's other asset and liability balances and the dollar amount of the individual plan's interest in each of those balances. The amendments also eliminate a redundancy relating to 401(h) account disclosures. The amendments in ASU 2017-06 are effective for plans for fiscal years beginning after December 15, 2018. Management has adopted the new disclosures related to this accounting pronouncement in these financial statements.

Payment of Benefits

Benefit payments to participants are recorded upon distribution.

Use of Estimates

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

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.

It is the Company's intention to only make contributions that are tax deductible. For each of the years ended December 31, 2019 and 2018, the Plan has satisfied the minimum funding requirements of ERISA.

Valuation of Investments and Income Recognition

The assets of the Plan are held in the ABB Inc. Master Trust (Master Trust), along with the assets of certain other plans of the Company. BNY Mellon (the Trustee) is the Trustee of the Master Trust.

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

Income, including realized and unrealized gains and losses, of the Master Trust is allocated monthly among participating plans based on the relationship of the fair value of the assets of each plan to the total fair value of the assets of the Master Trust as of the end of the preceding month. Employer contributions and benefit payments are applied on a specific basis to each plan.

Assets of the Master Trust are stated at fair value which, as used for financial statement purposes, represents market or current value as reported by the Master Trust's Trustee (see Note 6). The fair value of the Plan's interest in the Master Trust is based on the beginning of the year value of the Plan's interest in the Master Trust plus actual contributions and allocated investment income or loss less actual distributions and allocated administrative expenses.

Investment transactions are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation or depreciation includes gains and losses on investments bought and sold as well as held during the year.

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 net investment gain or loss of the Master Trust presented in the accompanying statements of changes in net assets available for benefits.

Securities Lending

As of and for the years ended December 31, 2019 and 2018, the Master Trust participated in the BNY Mellon's securities lending program for securities held in custody at the trustee. These securities are lent 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 US government securities managed by BNY Mellon. The value of loaned securities in the Master Trust amounted to approximately \$7,948,000 and \$35,064,000 at December 31, 2019 and 2018, respectively. The realized gain from securities lending activities of \$24,000 and \$30,000 for the years ended December 31, 2019 and 2018, respectively, are included as a component of the net appreciation (depreciation) 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 gain (loss). 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.

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

At December 31, 2019 and 2018, the Master Trust had the following foreign currency forward exchange contracts:

FAIR VALUE OF OUTSTANDING FORWARD CONTRACTS

As of December 31, 2019

Counterparty Allocation of Unrealized Profit / (Loss)		Maturity Date	Total	CHF	EUR	GBP	JPY	HKD
Australia and New Zealand Banking Group	ANZ	15-Feb-20	(USD 1,198)	USD 0	USD 0	USD 0	USD 0	(USD 1,198)
Citibank NA	CTL	15-Feb-20	(USD 44,306)	USD 0	USD 0	(USD 44,306)	USD 0	USD 0
Goldman Sachs International	GSL	15-Feb-20	(USD 367)	(USD 367)	USD 0	USD 0	USD 0	USD 0
JP Morgan Chase	CML	15-Feb-20	(USD 160,670)	USD 0	(USD 134,242)	(USD 26,728)	USD 0	USD 0
HSBC Bank plc	MDL	15-Feb-20	(USD 256,457)	USD 7,494	USD 0	(USD 263,951)	USD 0	USD 0
Royal Bank of Canada	RBL	15-Feb-20	(USD 54,204)	USD 0	(USD 53,131)	USD 0	USD 0	(USD 1,073)
Westpac Banking Corporation	WPL	15-Feb-20	(USD 171,436)	(USD 98,299)	(USD 134,388)	USD 64,131	(USD 2,880)	USD 0
Total fair value of forward contracts as of December 31, 2019			(USD 688,638)	(USD 91,172)	(USD 321,761)	(USD 270,554)	(USD 2,880)	(USD 2,271)

FAIR VALUE OF OUTSTANDING FORWARD CONTRACTS

As of December 30, 2018

Counterparty Allocation of Unrealized Profit / (Loss)		Maturity Date	Total	CHF	EUR	GBP	JPY	HKD
Australia and New Zealand Banking Group	ANZ	15-Feb-19	USD 515,915	USD 0	USD 0	USD 515,915	USD 0	USD 0
Citibank NA	CTL	15-Feb-19	USD 40,330	USD 0	USD 37,421	(USD 7,969)	USD 10,878	USD 0
Goldman Sachs International	GSL	15-Feb-19	USD 40,620	(USD 1,631)	USD 0	(USD 12,315)	USD 54,566	USD 0
HSBC Bank plc	MDL	15-Feb-19	(USD 20,815)	(USD 82,224)	USD 0	USD 0	USD 60,459	USD 950
JP Morgan Chase	CML	15-Feb-19	USD 56,356	USD 0	USD 0	USD 0	USD 56,356	USD 0
Royal Bank of Canada	RBL	15-Feb-19	(USD 99,644)	USD 0	(USD 105,291)	USD 5,647	USD 0	USD 0
Westpac Banking Corporation	WPL	15-Feb-19	(USD 795,866)	USD 0	(USD 30,451)	USD 0	(USD 765,435)	USD 0
Total fair value of forward contracts as of December 31, 2018			(USD 263,124)	(USD 83,855)	(USD 98,321)	USD 501,278	(USD 583,176)	USD 950

The fair value of the foreign currency forward exchange contracts, none of which are accounted for as hedge instruments under FASB ASC 815, "*Derivatives and Hedging*," are included in the Master Trust's net assets under state and foreign bonds. The realized gain/(loss) from foreign currency forward exchange contracts of \$755,000 and \$3,729,000 for the years ended December 30, 2019 and 2018, respectively, are included as a component of the net appreciation (depreciation) 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.

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

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, 2019 and 2018.

As of December 31, 2019:

Derivative Type	Fair Value of Derivative Assets	Fair Value of Derivative Liabilities	Net Exposure
Foreign Currency Contracts:			
Australia & New Zealand Banking Group	\$ -	\$ (1,198)	\$ (1,198)
Citibank NA	-	(44,306)	(44,306)
Goldman Sachs International	-	(367)	(367)
HSBC Bank plc	7,494	(263,951)	(256,457)
JP Morgan Chase	-	(160,671)	(160,171)
Royal Bank of Canada	-	(54,204)	(54,204)
Westpac Banking Corporation	64,131	(235,566)	(171,435)
Total	\$ 71,625	\$ (760,263)	\$ (688,638)

As of December 31, 2018:

Derivative Type	Fair Value of Derivative Assets	Fair Value of Derivative Liabilities	Net Exposure
Foreign Currency Contracts:			
Australia & New Zealand Banking Group	\$ 515,915	\$ -	\$ 515,915
Citibank NA	48,299	(7,969)	40,330
Goldman Sachs International	54,567	(13,947)	40,620
HSBC Bank plc	61,409	(82,224)	(20,815)
JP Morgan Chase	56,356	-	56,356
Royal Bank of Canada	5,647	(105,291)	(99,644)
Westpac Banking Corporation	-	(795,886)	(795,886)
Total	\$ 742,193	\$ (1,005,317)	\$ (263,124)

Investment Risk

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

Plan contributions are made and the actuarial present value of accumulated plan benefits are reported based on certain assumptions pertaining to interest rates, inflation rates and employee demographics, all of 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.

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

Subsequent Events

Management evaluated subsequent events for the Plan through October 9, 2020 the date the financial statements were available to be issued.

The COVID-19 pandemic, whose effects first became known in January 2020, is having a broad impact on financial markets throughout the world. Due to the current economic volatility, and the amount of time and judgment involved in our valuation processes, it is impractical to quantify the estimated impact on the fair value of the Plan's investments. However, we believe the recent volatility in the market has resulted in a material decrease in the fair value of the Plan's investments since December 31, 2019.

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, 2019 and 2018, 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, 2019 and 2018, 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, 2019 and 2018 are as follows:

Mortality - 2019: Based on the Retirement Plans - Collar specific Pri-2012 Mortality Table with Scale MP-2019 generational projection split between annuitants and non-annuitants and sex distinct.

Mortality - 2018: Based on the Retirement Plans - Collar specific RP2006 Mortality Table with Scale MP-2018 generational projection split between annuitants and non-annuitants and sex distinct.

Interest: The assumed interest rates utilized to calculate accumulated plan benefits at December 31, 2019 and 2018 were 3.30% and 4.29%, respectively.

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

Retirement age - 2019 and 2018: Age 65 for terminated vested employees and the following chart of rates applies for active employees:

<u>Age</u>	<u>Percentage of Employees Expected to Retire Within One Year</u>
60	8%
61	11%
62	20%
63	15%
64	30%
65-69	50%
70	100%

The \$824,320 change in actuarial assumptions for the year ended December 31, 2019, was due to a decrease in the interest rate to 3.30% and a change in the mortality table. The (\$762,581) change in actuarial assumptions for the year ended December 31, 2018, was due to an increase in the interest rate to 4.29% and a change in the mortality table.

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, 2019 and 2018, the Plan had a 0.5% and 0.5% interest in the net assets of the Master Trust held by BNY Mellon, respectively.

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

The following table presents the net assets for the Master Trust and the Plan's interest in the Master Trust as of December 31, 2019 and 2018:

	December 31, 2019		December 31, 2018	
	Master Trust	Plan Interest	Master Trust	Plan Interest
Assets				
<i>Investments:</i>				
Interest-bearing cash	\$ 1,570,000	\$ 8,622	\$ 1,991,004	\$ 10,586
U.S. government securities	208,951,972	1,147,513	189,249,255	1,006,265
Corporate bonds	509,157,491	2,796,168	501,822,698	2,668,262
Corporate stock - Preferred	5,492,499	30,163	4,404,419	23,419
Corporate stock - Common	262,844	1,443	866,002	4,605
Partnership / joint venture interests	147,339,058	809,150	139,231,397	740,313
State and foreign bonds	20,782,179	114,131	15,640,254	83,161
Collective trusts	365,243,770	2,005,829	330,738,567	1,758,584
103-12 investment entities	101,551	558	276,376	1,470
Registered investment companies	89,524,190	491,645	79,529,408	422,869
Short term investments	-	-	206,460	1,098
Collateral held under securities lending agreement	8,136,524	44,684	35,966,691	191,240
Total investments	1,356,562,078	7,449,906	1,299,922,531	6,911,872
<i>Receivables:</i>				
Interest receivables	5,986,510	32,876	10,646,815	33,844
Receivable for investments sold	49,672,519	272,789	6,365,079	56,611
Total assets	1,412,221,107	7,755,572	1,316,934,425	7,002,327
Liabilities				
Payable for investment purchased	98,571,272	541,329	43,457,343	231,070
Obligation to return securities lending collateral	8,136,525	44,684	35,966,691	191,239
Total liabilities	106,707,797	586,013	79,424,034	422,309
NET ASSETS	\$ 1,305,513,310	\$ 7,169,559	\$ 1,237,510,391	\$ 6,580,018

Investment income (loss) of the Master Trust is as follows:

For the years ended December 31	2019	2018
Net appreciation (depreciation) in fair value of investments	\$ 159,831,198	\$ (91,696,913)
Interest	24,473,495	22,754,366
Dividends	11,317,499	9,576,509
Miscellaneous income	34,211	27,792
Net investment income (loss)	\$ 195,656,403	\$ (59,388,246)

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

NOTE 5 - INVESTMENTS CERTIFIED BY TRUSTEE

The Plan administrator has elected the method of compliance permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Accordingly, as permitted under such election, the Plan administrator has obtained certifications from BNY Mellon that all information relating to the Plan's interest in the Master Trust and the Master Trust's investments as of December 31, 2019 and 2018, is complete and accurate. In addition, the Plan's interest in the net investment income or loss of the Master Trust and the net investment income (loss) for the Master Trust for the years ended December 31, 2019 and 2018, was obtained or derived from the certified information. The information was not audited by independent certified public accountants except for comparing the information to the related information included in the financial statements and supplemental schedule.

NOTE 6 - FAIR VALUE MEASUREMENTS

Investments held by the Master Trust are stated at fair value. 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's investments, are described below:

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

The determination of where an asset falls in the hierarchy requires significant judgment. The Plan evaluates its 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.

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

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, 2019 and 2018:

- Interest-bearing cash valued at Level 2 primarily consist of cash collateral deposits with clearing financial institutions.
- Corporate bonds 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.
- 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.
- 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 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.
- Registered investment companies are valued at the net asset value (NAV), based on quoted market prices in active markets, of shares held by the Plan at year-end.
- 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 is based upon the fair value of the underlying investments less liabilities.
- Short investments primarily consists of interest rate swaps which are valued using the income approach which takes into account contract terms as well as multiple inputs which may be observed in the marketplace.

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

The following table sets forth by level, within the fair value hierarchy, the Master Trust's financial instruments at fair value as of December 31, 2019:

	Instruments at Fair Value			
	Level 1	Level 2	Level 3	Total
Investments in the fair value hierarchy:				
Interest-bearing cash	\$ -	\$ 1,570,000	\$ -	\$ 1,570,000
U.S. government securities	170,898,993	38,052,979	-	208,951,972
Corporate bonds	-	509,157,491	-	509,157,491
Corporate stock - Preferred	-	5,492,499	-	5,492,499
Corporate stock - Common	262,844	-	-	262,844
State and foreign bonds	74,051	20,708,128	-	20,782,179
Registered investment companies	89,524,190	-	-	89,524,190
Collateral held under securities lending agreement	8,136,524	-	-	8,136,524
Total investments in fair value hierarchy	268,896,602	574,981,097	-	843,877,699
Investments measured at NAV:				
Partnership / joint venture interests	-	-	-	147,339,058
Collective trusts	-	-	-	365,243,770
103-12 investment entities	-	-	-	101,551
Total investments measured at NAV	-	-	-	512,684,379
Total investments	\$ -	\$ -	\$ -	\$ 1,356,562,078

The following table sets forth by level, within the fair value hierarchy, the Master Trust's financial instruments at fair value as of December 31, 2018:

	Instruments at Fair Value			
	Level 1	Level 2	Level 3	Total
Investments in the fair value hierarchy:				
Interest-bearing cash	\$ 10,000	\$ 1,981,004	\$ -	\$ 1,991,004
U.S. government securities	170,424,988	18,824,267	-	189,249,255
Corporate bonds	-	501,822,698	-	501,822,698
Corporate stock - Preferred	-	4,404,419	-	4,404,419
Corporate stock - Common	866,002	-	-	866,002
State and foreign bonds	-	15,640,254	-	15,640,254
Registered investment companies	79,529,408	-	-	79,529,408
Short investments	-	206,460	-	206,460
Collateral held under securities lending agreement	35,966,691	-	-	35,966,691
Total investments in fair value hierarchy	286,797,089	542,879,102	-	829,676,191
Investments measured at NAV:				
Partnership / joint venture interests	-	-	-	139,231,397
Collective trusts	-	-	-	330,738,567
103-12 investment entities	-	-	-	276,376
Total investments measured at NAV	-	-	-	470,246,340
Total investments	\$ -	\$ -	\$ -	\$ 1,299,922,531

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

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, 2019 and 2018.

The following table summarizes investments measured at fair value based on the NAV per share practical expedient as of December 31, 2019:

	<u>Fair Value</u>	<u>Unfunded Commitments</u>	<u>Redemption Frequency</u>	<u>Redemption Notice Period</u>
Partnership / joint venture interests (a)	\$ 147,339,058	\$ -	Monthly	30-60 days
Collective trusts (b)	365,243,770	-	Monthly	31-60 days
103-12 investment entities (c)	101,551	-	N/A	N/A
	<u>\$ 512,684,379</u>	<u>\$ -</u>		

The following table summarizes investments measured at fair value based on the NAV per share practical expedient as of December 31, 2018:

	<u>Fair Value</u>	<u>Unfunded Commitments</u>	<u>Redemption Frequency</u>	<u>Redemption Notice Period</u>
Partnership / joint venture interests (a)	\$ 139,231,397	\$ -	Monthly	30-60 days
Collective trusts (b)	330,738,567	-	Monthly	31-60 days
103-12 investment entities (c)	276,376	-	N/A	N/A
	<u>\$ 470,246,340</u>	<u>\$ -</u>		

- 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 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 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.
- 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.

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

NOTE 7 - PLAN TERMINATION

The Company expects to continue the Plan, but reserves the right to terminate the Plan or discontinue contributions subject to the provisions of ERISA.

In the event the Plan is terminated, the net assets of the Plan will be allocated as prescribed by ERISA and its related regulations, generally to provide the following benefits in the following order to the extent of the sufficiency of such assets, or portions thereof:

First, to that portion of a participant's accrued benefit which is derived from mandatory contributions to the Plan;

Second, equally among benefits of participants in the following two subcategories;

- In the case of benefits in any pay status three years prior to termination (at the lowest pay level in that period and at the lowest benefit level under the Plan during the five years prior to termination); and
- In the case of benefits which would have been in pay status three years prior to termination had the participants been retired (and their benefits commenced then), at the lowest benefit level under the Plan during the five years prior to termination.

Third, among all other benefits (if any) of participants under the Plan; guaranteed under the termination insurance provisions of ERISA;

Fourth, among all other nonforfeitable (i.e., uninsured and vested) benefits under the Plan; and

Fifth, among all other benefits under the Plan.

Certain benefits under the Plan are insured by the Pension Benefit Guaranty Corporation (PBGC) if the Plan terminates. However, the PBGC does not guarantee all types of benefits under the Plan and the amount of benefit protection is subject to certain limitations. Vested benefits under the Plan are guaranteed at the level in effect on the date of the Plan's termination. However, there is a statutory ceiling on the amount of an individual's monthly benefit that the PBGC guarantees. For Plan terminations occurring during 2019 and 2018, that ceiling, which remained unadjusted annually, was \$5,608 per month, respectively. Whether a particular participant's accumulated plan benefit will be paid depends on both the priority of those benefits and the level of benefits guaranteed by the PBGC at that time. Some benefits may be fully or partially provided for by the existing assets and the PBGC guaranty.

NOTE 8 - INCOME TAX STATUS

The IRS has determined and informed the Company by a letter dated March 28, 2012 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.

Crystal Springs Plant of Kuhlman Electric Corporation Income Plan

NOTES TO FINANCIAL STATEMENTS - CONTINUED

December 31, 2019 and 2018

Accounting principles general accepted in the United States of America require plan management to evaluate tax positions taken by the plan and recognize a tax liability if the plan has taken an uncertain position that more-likely-than-not would not be sustained upon examination by the Internal Revenue Service. As of December 31, 2019 and 2018, 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 Plan's assets are invested in funds managed by the Trustee of the Plan. These transactions qualify as party-in-interest transactions; however, they are exempt from the prohibited transactions rules under ERISA.

NOTE 10 - PROHIBITED TRANSACTIONS

In 2020, management determined prohibited transactions occurred when the Master Trust paid amounts to an affiliate of the Plan Sponsor for employee services performed for the Plan for the years 2015 to 2019. The Plan Sponsor will reimburse the Master Trust for \$1,750 during 2020 and is taking all necessary corrective actions to ensure the Plan and Master Trust maintain its income tax status as described in Note 8 above.

SUPPLEMENTAL SCHEDULE

Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan

SCHEDULE G, Part III - SCHEDULE OF NONEXEMPT TRANSACTIONS

For the year ended December 31, 2019

(a) Identity of party involved	(b) Relationship to plan, employer, or other party in interests	(c) Description of transactions, including maturity date, rate of interest, collateral, and par or maturity value	(d) Purchase price	(e) Selling price	(f) Lease rental	(g) Expenses incurred in connection transaction	(h) Cost of asset	(i) value of asset	(j) Net gain or (loss) on each transaction
ABB Inc.	Plan Sponsor	Use of Plan assets for administrative expenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,750	\$ -

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 26 Schedule of Active Participant Data as of January 1, 2019

Attained Age	Attained Years of Credited Service ¹										Total
	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	
Under 25	0	0	0	0	0	0	0	0	0	0	0
25-29	0	0	0	0	0	0	0	0	0	0	0
30-34	0	0	0	0	0	0	0	0	0	0	0
35-39	0	0	0	0	0	0	0	0	0	0	0
40-44	0	0	0	0	0	3	0	0	0	0	3
45-49	0	0	0	0	1	3	3	0	0	0	7
50-54	0	0	0	0	0	3	2	6	0	0	11
55-59	0	0	0	0	0	1	1	3	1	0	6
60-64	0	0	0	0	0	2	0	3	0	0	5
65-69	0	0	0	1	0	1	1	1	0	2	6
70 & over	0	0	0	0	0	0	0	0	0	1	1
Total	0	0	0	1	1	13	7	13	1	3	39

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

Plan Name: Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
 EIN / PN: 36-3100018/002
 Plan Sponsor: ABB Inc.
 Valuation Date: January 1, 2019

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	3.74%	2.28%
■ Second segment rate	5.35%	3.81%
■ Third segment rate	6.11%	4.46%
■ Effective interest rate	5.50%	3.98%

Annual rates of increase

- Compensation N/A
- Future Social Security wage bases N/A
- Statutory limits on compensation and benefits N/A

Plan-related expenses \$50,000

Plan Name: Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN: 36-3100018/002
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2019

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-2017) 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-2017).

■ **Disabled** Alternate disabled life mortality tables as defined under Revenue Ruling 96-7.

Termination Representative Termination rates not due to Disability, Retirement, and Mortality are as follows:

Percentage retiring during the year	
Attained Age	Rate
20	4.30%
30	2.70%
40	1.70%
50	1.10%
60	0.60%

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).

Plan Name: Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN: 36-3100018/002
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2019

SCHEDULE SB ATTACHMENTS

Retirement

Age 65 for terminated vested participants. For purposes of determining the Funding Target and Target Normal Cost (both disregarding at-risk assumptions), the rates at which participants retire are shown below.

Percentage Retiring During the Year	
Age	Rate
60	8.00%
61	11.00%
62	20.00%
63	15.00%
64	30.00%
65 - 69	50.00%
70	100.00%

Benefit commencement date

- Preretirement death benefit The later of the date of death of the active participant or the date the participant would have attained age 60.
- Deferred vested benefit Age 65.
- Disability benefit Upon disablement.
- Retirement benefit Upon termination of employment.

Form of payment

Participants not yet in payment status are assumed to elect a single life annuity form of payment upon benefit commencement.

Percent married

For purposes of valuing the preretirement surviving spouse's benefit, 70% of eligible participants are assumed to be married.

Spouse age

Wife three years younger than husband.

Timing of benefit payments

Annuity payments are payable at the beginning of the month.

Plan Name: Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN: 36-3100018/002
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2019

SCHEDULE SB ATTACHMENTS

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	<p>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).</p> <p>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.</p> <p>For purposes of calculating the actuarial value of assets, expected earnings assumptions of 5.80% for 2018 and 6.20% for 2017 were used.</p>
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.

Plan Name:	Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN:	36-3100018/002
Plan Sponsor:	ABB Inc.
Valuation Date	January 1, 2019

SCHEDULE SB ATTACHMENTS

Sources of Data and Other Information

The plan sponsor through its third party administrator (Alight), furnished participant data as of 1/1/2019. 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 1/1/2019 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.
Assumed return for asset smoothing	The assumed return of 5.80% used for asset smoothing is the expected return on assets assumption chosen by the plan sponsor for 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.

Plan Name:	Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN:	36-3100018/002
Plan Sponsor:	ABB Inc.
Valuation Date	January 1, 2019

SCHEDULE SB ATTACHMENTS

Disability	Disability rates were selected based on a published table for pension participants believed to have similar characteristics to the plan population.
Retirement	Retirement rates were based on plan sponsor expectations for the future with periodic monitoring of observed gains and losses caused by retirement patterns different than assumed.
Percent married	The assumed percentage married was selected based on general population statistics on the marital rates of individuals of retirement age.

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.
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Changes in Assumptions and Methods

Change in assumptions and methods since prior valuation	<p>In addition to the prescribed change in the mortality table, the following changes in assumptions and methods were made as part of this valuation:</p> <ul style="list-style-type: none">■ The plan’s effective interest rate decreased 17 basis points compared to the prior year (5.50% versus 5.67%).■ The assumed plan-related expense added to the normal cost changed from \$70,000 for 2018 to \$50,000 for 2019.■ The decrement timing used in the valuation was changed from middle of year to rounded middle of year. Under rounded middle of year decrement timing, all decrements are assumed to occur at the middle of the year and eligibility for benefits, commencement and cessation of benefits, and other events are assumed to occur at the middle of the year. The change in funding method meets the parameters for automatic approval of software changes under IRS Rev. Proc. 2017-56.
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Plan Name:	Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN:	36-3100018/002
Plan Sponsor:	ABB Inc.
Valuation Date	January 1, 2019

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 2019 This Form is Open to Public Inspection
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For calendar plan year 2019 or fiscal plan year beginning 01/01/2019 and ending 12/31/2019

▶ **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 CRYSTAL SPRINGS PLANT-KUHLMAN ELECTRIC CORPORATION RETIREMENT INCOME PLAN	B Three-digit plan number (PN) ▶ 002
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: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I	Basic Information
1 Enter the valuation date: Month 01 Day 01 Year 2019	
2 Assets:	
a Market value.....	2a 6,592,070
b Actuarial value.....	2b 6,944,896
3 Funding target/participant count breakdown	
a For retired participants and beneficiaries receiving payment.....	(1) Number of participants 101 (2) Vested Funding Target 4,029,307 (3) Total Funding Target 4,029,307
b For terminated vested participants.....	63 907,209 907,209
c For active participants.....	39 1,567,835 1,602,924
d Total.....	203 6,504,351 6,539,440
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 5.50%
6 Target normal cost.....	6 87,198

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 	09/15/2020
	Signature of actuary	Date
John D. Steele	Type or print name of actuary	2005326
Willis Towers Watson US LLC	Firm name	Most recent enrollment number
		203-326-5400
3001 Summer Street Floor 5 Stamford CT 06905	Address of the firm	Telephone number (including area code)

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

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).....	0	786,078
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).....	0	786,078
10 Interest on line 9 using prior year's actual return of <u>-4.54%</u>	0	-35,688
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year).....		0
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>5.67%</u>		0
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance.....		0
d Portion of (c) to be added to prefunding balance.....		0
12 Other reductions in balances due to elections or deemed elections	0	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....	0	750,390

Part III Funding Percentages

14 Funding target attainment percentage	14	94.72%
15 Adjusted funding target attainment percentage.....	15	106.20%
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	101.88%
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: 3.74 %	2nd segment: 5.35 %	3rd segment: 6.11 %	☐ N/A, full yield curve used
b Applicable month (enter code).....				21b 4
22 Weighted average retirement age				22 64
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 Is the plan required to provide a Schedule of Active Participants? 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 6)	31a	87,198	
b Excess assets, if applicable, but not greater than line 31a	31b	0	
32 Amortization installments:	Outstanding Balance		Installment
a Net shortfall amortization installment.....	344,934		56,048
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	143,246	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	143,246	143,246
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 Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:	
a Schedule elected	☐ 2 plus 7 years ☐ 15 years
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011

SCHEDULE SB ATTACHMENTS

Schedule SB – Statement by Enrolled Actuary

Plan Sponsor	ABB Inc.
EIN/PN	36-3100018/002
Plan Name	Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
Valuation Date	January 1, 2019
Enrolled Actuary	John D. Steele
Enrollment Number	20-05326

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, 2019

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
60	8.00%	1.000000	0.080000	4.80
61	11.00%	0.920000	0.101200	6.17
62	20.00%	0.818800	0.163760	10.15
63	15.00%	0.655040	0.098256	6.19
64	30.00%	0.556784	0.167035	10.69
65	50.00%	0.389749	0.194874	12.67
66	50.00%	0.194874	0.097437	6.43
67	50.00%	0.097437	0.048719	3.26
68	50.00%	0.048719	0.024359	1.66
69	50.00%	0.024359	0.012180	0.84
70	100.00%	0.012180	0.012180	0.85
Average age at retirement				63.72
Nearest whole age				64.00

Plan Name:	Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN:	36-3100018/002
Plan Sponsor:	ABB Inc.
Valuation Date	January 1, 2019

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V Summary of Plan Provisions

Plan Provisions

The Plan was adopted on September 1, 1967 and amendments through January 1, 2019 are reflected in the plan provisions.

Covered employees Any hourly rate employee hired prior to the participation date.

Participation date The plan was closed to new entrants as of May 1, 1996. Any individual hired after this date is not eligible for benefits.

Definitions

Vesting service One year for each 1,000-hour calendar year of employment by Kuhlman Electric Corporation.

Credited service One year of credited service is earned for each plan year in which a participant has 1,700 or more hours of service. Partial years of credited service are earned for plan years in which a participant has less than 1,700 hours, according to the schedule below:

Hours	Service
≥ 1,615	1.0
1,445 - 1,614	0.9
1,275 - 1,444	0.8
1,105 - 1,274	0.7
935 - 1,104	0.6
765 - 934	0.5
595 - 764	0.4
425 - 594	0.3
255 - 424	0.2
85 - 254	0.1
≤ 84	0.0

Plan Name: Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN: 36-3100018/002
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2019

SCHEDULE SB ATTACHMENTS

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
Postponed retirement	Retirement after Normal Retirement Date
Deferred vested termination	Termination for reasons other than death or retirement after completing five years of Vesting Service
Disability	Permanent and total disability prior to Normal Retirement Date, following 10 years of Credited Service
Preretirement death benefit	Death while eligible for normal, early, postponed, or deferred vested retirement benefits, with a surviving spouse

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.

Postponed retirement A monthly benefit equal to the greater of (a) a benefit based on Credited Service at Late Retirement, or (b) an actuarially increased benefit based on Credit Service at Normal Retirement.

Plan Name: Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN: 36-3100018/002
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2019

SCHEDULE SB ATTACHMENTS

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.

Disability

A monthly benefit equal to the benefit level multiplied by years of Credited Service to the date of disablement, reduced by Worker's Compensation 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 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. There is a charge for this coverage for the period from age 35 to age 65.

Other Plan Provisions

Forms of payment

Life annuity for single participants, 50% joint and survivor annuity for married participants.

Changes in Benefits Valued since Prior Year

There have been no changes in benefits valued since the prior year.

Plan Name: Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN: 36-3100018/002
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2019

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 32
Schedule of Amortization Bases
as of January 1, 2019

Type of Base	Date Established	Initial Amount	Remaining Amortization Period (Years)	Outstanding Balance	Amortization Payment
Shortfall	01/01/2019	344,934	7.00000	344,934	56,048
Total				344,934	56,048

Plan Name: Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN: 36-3100018/002
Plan Sponsor: ABB Inc.
Valuation Date: January 1, 2019

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 25 Change in Method

The decrement timing used in the valuation was changed from middle of year to rounded middle of year. Under rounded middle of year decrement timing, all decrements are assumed to occur at the middle of the year and eligibility for benefits, commencement and cessation of benefits, and other events are assumed to occur at the middle of the year. Under middle of year decrement timing, all decrements, and commencement of immediate benefits for actives, are assumed to occur at the middle of the year, and all other events are assumed to occur on valuation date anniversaries. The change in funding method meets the parameters for automatic approval of software changes under IRS Rev. Proc. 2017-56.

Plan Name:	Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN:	36-3100018/002
Plan Sponsor:	ABB Inc.
Valuation Date	January 1, 2019

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 24 Change in Actuarial Assumptions

The following changes were made to non-prescribed actuarial assumptions for 2019:

The assumed plan-related expense added to the normal cost changed from \$70,000 for 2018 to \$50,000 for 2019.

Plan Name:	Crystal Springs Plant of Kuhlman Electric Corporation Retirement Income Plan
EIN / PN:	36-3100018/002
Plan Sponsor:	ABB Inc.
Valuation Date	January 1, 2019