Form 5500

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Annual Return/Report of Employee Benefit Plan

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

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

OMB Nos. 1210-0110
1210-0089

2021

This Form is Open to Public Inspection

Part I Annual Report Identification Information

For calendar plan year 2021 or fiscal plan year beginning 01/01/2021 and ending 12/31/2021

A This return/report is for:
- [ ] a multiemployer plan
- [ ] a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.)
- [X] a single-employer plan
- [ ] a DFE (specify) ____

B This return/report is:
- [ ] the first return/report
- [ ] the final return/report
- [ ] an amended return/report
- [ ] a short plan year return/report (less than 12 months)

C If the plan is a collectively-bargained plan, check here. . . . . ▶ [X]

D Check box if filing under:
- [X] Form 5558
- [ ] automatic extension
- [ ] the DFVC program
- [ ] special extension (enter description)

E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here. . . . . ▶ [ ]

Part II Basic Plan Information—enter all requested information

1a Name of plan
HITACHI ENERGY USA INC. CRYSTAL SPRINGS PLANT RETIREMENT INCOME PLAN

1b Three-digit plan number (PN) ▶ 322

1c Effective date of plan 01/01/2020

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)
HITACHI ENERGY USA INC.

901 MAIN CAMPUS DRIVE
RALEIGH, NC 27606

2b Employer Identification Number (EIN) 94-3273443

2c Plan Sponsor's telephone number 901-205-6638

2d Business code (see instructions) 335900

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

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

SIGN HERE	Filed with authorized/valid electronic signature.	10/14/2022	VONNA M. JONES
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

3a Plan administrator's name and address [X] Same as Plan Sponsor

3b Administrator's EIN

3c Administrator's telephone number

4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report:

a Sponsor's name ABB ENTERPRISE SOFTWARE INC.

c Plan Name ABB ENTERPRISE SOFTWARE INC. CRYSTAL SPRINGS PLANT RETIREMENT INCOME PLAN

4b EIN 94-3273443

4d PN 322

5 Total number of participants at the beginning of the plan year	**5**	41
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines **6a(1), 6a(2), 6b, 6c,** and **6d**).		
a(1) Total number of active participants at the beginning of the plan year	**6a(1)**	38
a(2) Total number of active participants at the end of the plan year	**6a(2)**	36
b Retired or separated participants receiving benefits	**6b**	1
c Other retired or separated participants entitled to future benefits	**6c**	4
d Subtotal. Add lines **6a(2)**, **6b**, and **6c**	**6d**	41
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.	**6e**	0
f Total. Add lines **6d** and **6e**	**6f**	41
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	**6g**	
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	**6h**	0
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	**7**	

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

1B 3H

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

9a Plan funding arrangement (check all that apply)

(1)	[ ]	Insurance
(2)	[ ]	Code section 412(e)(3) insurance contracts
(3)	[X]	Trust
(4)	[ ]	General assets of the sponsor

9b Plan benefit arrangement (check all that apply)

(1)	[ ]	Insurance
(2)	[ ]	Code section 412(e)(3) insurance contracts
(3)	[X]	Trust
(4)	[ ]	General assets of the sponsor

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

a Pension Schedules

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

b General Schedules

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

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

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

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

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

11c Enter the Receipt Confirmation Code for the 2021 Form M-1 annual report. If the plan was not required to file the 2021 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

2021

This Form is Open to Public Inspection

For calendar plan year 2021 or fiscal plan year beginning 01/01/2021 and ending 12/31/2021

▶ **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
HITACHI ENERGY USA INC. CRYSTAL SPRINGS PLANT RETIREMENT INCOME PLAN

B Three-digit plan number (PN) ▶ 322

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

D Employer Identification Number (EIN)
94-3273443

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

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

Part I Basic Information

1 Enter the valuation date: Month 01 Day 01 Year 2021

2 Assets:

a Market value	**2a**	80769
b Actuarial value	**2b**	80439

3 Funding target/participant count breakdown

	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	1	786	786
b For terminated vested participants	2	2599	2599
c For active participants	38	45903	85712
d Total	41	49288	89097

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**	5.59 %
6 Target normal cost		
a Present value of current plan year accruals	**6a**	45311
b Expected plan-related expenses	**6b**	0
c Total (line 6a + line 6b)	**6c**	45311

Statement by Enrolled Actuary

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

SIGN HERE

Signature of actuary

09/28/2022
Date

MICHAEL A. HOLDERMAN
Type or print name of actuary

20-06979
Most recent enrollment number

WILLIS TOWERS WATSON US LLC
Firm name

704-620-6513
Telephone number (including area code)

1 BANK OF AMERICA CENTER
150 NORTH COLLEGE STREET
CHARLOTTE, NC 28202

Address of the firm

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

Part II Beginning of Year Carryover and Prefunding Balances

		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	0
10	Interest on line 9 using prior year's actual return of 8.45 %	0	0
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		0
	b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of 5.59 %		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	0

Part III Funding Percentages

14	Funding target attainment percentage	14	90.28 %
15	Adjusted funding target attainment percentage	15	90.28 %
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	100.00 %
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
04/07/2022	50000	0			
			Totals ► 18(b)	50000	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	46671

20 Quarterly contributions and liquidity shortfalls:

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

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

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

Liquidity shortfall as of end of quarter of this plan year

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

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

21 Discount rate:

a Segment rates:	1st segment: 4.75 %	2nd segment: 5.36 %	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 6c)	**31a**	45311
b Excess assets, if applicable, but not greater than line 31a	**31b**	0

32 Amortization installments:	Outstanding Balance	Installment
a Net shortfall amortization installment	8658	807
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**	46118

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

36 Additional cash requirement (line 34 minus line 35)	**36**	46118
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	**37**	46671

38 Present value of excess contributions for current year (see instructions)

a Total (excess, if any, of line 37 over line 36)	**38a**	553
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 D (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

DFE/Participating Plan Information

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

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

OMB No. 1210-0110

2021

This Form is Open to Public Inspection.

For calendar plan year 2021 or fiscal plan year beginning 01/01/2021 and ending 12/31/2021

A Name of plan
HITACHI ENERGY USA INC. CRYSTAL SPRINGS PLANT RETIREMENT INCOME PLAN

B Three-digit plan number (PN) ▶ 322

C Plan or DFE sponsor's name as shown on line 2a of Form 5500
HITACHI ENERGY USA INC.

D Employer Identification Number (EIN)
94-3273443

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

a Name of MTIA, CCT, PSA, or 103-12 IE: HITACHI ENERGY USA INC. MASTER TRUS

b Name of sponsor of entity listed in (a): HITACHI ENERGY USA INC.

c EIN-PN	**d** Entity code	**e** Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
94-3273443-324	M	86498

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)

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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):

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

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

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

SCHEDULE I (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Financial Information—Small Plan

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

2021

This Form is Open to Public Inspection

For calendar plan year 2021 or fiscal plan year beginning 01/01/2021 and ending 12/31/2021

A Name of plan
HITACHI ENERGY USA INC. CRYSTAL SPRINGS PLANT RETIREMENT INCOME PLAN

B Three-digit plan number (PN) ▶ 322

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

D Employer Identification Number (EIN)
94-3273443

Complete Schedule I if the plan covered fewer than 100 participants as of the beginning of the plan year. You may also complete Schedule I if you are filing as a small plan under the 80-120 participant rule (see instructions). Complete Schedule H if reporting as a large plan or DFE.

Part I Small Plan Financial Information

Report below the current value of assets and liabilities, income, expenses, transfers and changes in net assets during the plan year. Combine the value of plan assets held in more than one trust. Do not enter the value of the portion of an insurance contract that guarantees during this plan year to pay a specific dollar benefit at a future date. 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.**

			(a) Beginning of Year	**(b)** End of Year
1	**Plan Assets and Liabilities:**			
a	Total plan assets	**1a**	20995	86498
b	Total plan liabilities	**1b**	0	
c	Net plan assets (subtract line 1b from line 1a)	**1c**	20995	86498
2	**Income, Expenses, and Transfers for this Plan Year:**		**(a)** Amount	**(b)** Total
a	Contributions received or receivable:			
	(1) Employers	**2a(1)**	62000	
	(2) Participants	**2a(2)**		
	(3) Others (including rollovers)	**2a(3)**	201	
b	Noncash contributions	**2b**		
c	Other income	**2c**	3578	
d	Total income (add lines 2a(1), 2a(2), 2a(3), 2b, and 2c)	**2d**		65779
e	Benefits paid (including direct rollovers)	**2e**	71	
f	Corrective distributions (see instructions)	**2f**		
g	Certain deemed distributions of participant loans (see instructions)	**2g**		
h	Administrative service providers (salaries, fees, and commissions)	**2h**		
i	Other expenses	**2i**	205	
j	Total expenses (add lines 2e, 2f, 2g, 2h, and 2i)	**2j**		276
k	Net income (loss) (subtract line 2j from line 2d)	**2k**		65503
l	Transfers to (from) the plan (see instructions)	**2l**		

3 **Specific Assets:** If the plan held assets at any time during the plan year in any of the following categories, check "Yes" and enter the current value of any assets remaining in the plan as of the end of the plan year. Allocate the value of the plan's interest in a commingled trust containing the assets of more than one plan on a line-by-line basis unless the trust meets one of the specific exceptions described in the instructions.

			Yes	**No**	**Amount**
a	Partnership/joint venture interests	**3a**		X	
b	Employer real property	**3b**		X	
c	Real estate (other than employer real property)	**3c**		X	
d	Employer securities	**3d**		X	
e	Participant loans	**3e**		X	
f	Loans (other than to participants)	**3f**		X	
g	Tangible personal property	**3g**		X	

Part II Compliance Questions

4 During the plan year:		Yes	No	Amount
a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.)	4a		X	
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of plan year or classified during the year as uncollectible? Disregard participant loans secured by the participant's account balance.	4b		X	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible?	4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a.)	4d		X	
e Was the plan covered by a fidelity bond?	4e	X		1000000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?	4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?	4h		X	
i Did the plan at any time hold 20% or more of its assets in any single security, debt, mortgage, parcel of real estate, or partnership/joint venture interest?	4i		X	
j Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?	4j		X	
k Are you claiming a waiver of the annual examination and report of an independent qualified public accountant (IQPA) under 29 CFR 2520.104-46? If "No," attach an IQPA's report or 2520.104-50 statement. (See instructions on waiver eligibility and conditions.)	4k	X		
l Has the plan failed to provide any benefit when due under the plan?	4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	4m		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3	4n			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year? ☐ Yes ☒ No

If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

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

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

5c Was the plan a defined benefit plan covered under the PBGC insurance program at any time during this plan year? (See ERISA section 4021 and instructions.) ☒ Yes ☐ No ☐ Not determined

If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 430381.

SCHEDULE R (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Retirement Plan Information

This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code).

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

OMB No. 1210-0110

2021

This Form is Open to Public Inspection.

For calendar plan year 2021 or fiscal plan year beginning 01/01/2021 and ending 12/31/2021

A Name of plan
HITACHI ENERGY USA INC. CRYSTAL SPRINGS PLANT RETIREMENT INCOME PLAN

B Three-digit plan number (PN) ▶ 322

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

D Employer Identification Number (EIN)
94-3273443

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): 31-0841368

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**

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 deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:

a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment)	**14a**	
b The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	**14b**	
c The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	**14c**	

15 Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

a The corresponding number for the plan year immediately preceding the current plan year	**15a**	
b The corresponding number for the second preceding plan year	**15b**	

16 Information with respect to any employers who withdrew from the plan during the preceding plan year:

a Enter the number of employers who withdrew during the preceding plan year	**16a**	
b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers	**16b**	

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

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

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

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

a Enter the percentage of plan assets held as:
Stock: _____% Investment-Grade Debt: _____% High-Yield Debt: _____% Real Estate: _____% Other: _____%

b Provide the average duration of the combined investment-grade and high-yield debt:
☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more

c What duration measure was used to calculate line 19(b)?
☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify):

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

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

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

☐ Yes.

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

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

☐ No. Other. Provide explanation _____

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 26
Schedule of Active Participant Data as of January 1, 2021

	Attained Years of Credited Service[1]										
Attained Age	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	Total
Under 25	0	0	0	0	0	0	0	0	0	0	0
25-29	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	0	0	0	0	0	0
45-49	0	0	0	0	1	2	7	0	0	0	10
50-54	0	0	1	0	0	0	4	3	1	0	9
55-59	0	0	0	0	0	1	3	3	2	0	9
60-64	0	0	0	0	0	0	1	2	2	0	5
65-69	0	0	0	1	0	0	3	1	0	0	5
70 & over	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	1	1	3	18	9	5	0	38

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

Plan Name: Hitachi Energy USA Inc. Crystal Springs Plan Retirement Income plan
EIN / PN: 94-3273443 / 322
Plan Sponsor: Hitachi Energy USA Inc.
Valuation Date: January 1, 2021

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V
Statement of Actuarial Assumptions/Methods

Economic Assumptions

Interest rate basis

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

Interest rates	**Reflecting Corridors**	**Not Reflecting Corridors**
■ First segment rate	4.75%	2.22%
■ Second segment rate	5.36%	3.38%
■ Third segment rate	6.11%	3.92%
■ Effective interest rate	5.59%	3.57%

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 $0

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-2019) 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-2019).

- 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%
25	3.40%
30	2.70%
35	2.20%
40	1.70%
45	1.40%
50	1.10%
55	0.80%
60	0.60%
65 and later	0.00%

Disability

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

SCHEDULE SB ATTACHMENTS

Retirement

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 eligibility for early retirement benefits.
- Deferred vested benefit — The later of age 65 or termination of employment.
- 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.

Actuarial Increases

For calculating the actuarially increased benefit for postponed retirement benefits, UP84 mortality and 7.75% interest is used.

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	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). The method of computing the actuarial value of assets complies with rules governing the calculation of such values under the Pension Protection Act of 2006 (PPA). These rules produce smoothed values that reflect the underlying market value of plan assets but fluctuate less than the market value. As a result, the actuarial value of assets will be lower than the market value in some years and greater in other years. However, over the long term under PPA's smoothing rules, the method has a significant bias to produce an actuarial value of assets that is below the market value of assets. For purposes of calculating the actuarial value of assets, expected earnings assumptions of 5.75% for 2020 for 2020 was used. The plan did not exist during 2019, therefore there was no 2019 expected earnings assumption.
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 Enterprise Software Inc. and, based on that review, is not aware of any significant benefits required to be valued that were not.

SCHEDULE SB ATTACHMENTS

Sources of Data and Other Information

The plan sponsor through its third party administrator (Alight), furnished participant data as of 1/1/2021. 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 1/1/2021 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	The plan sponsor does not anticipate paying any plan-related expenses from the trust.
Assumed return for asset smoothing	The assumed return of 5.75% used for asset smoothing is the mean projected portfolio return based on ABB Enterprise Software Inc.'s master trust target asset allocation and Willis Towers Watson's long-term expected rate of return for each asset class based on January 2021 capital market assumptions.

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.

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

Changes in Assumptions and Methods

Change in assumptions and methods since prior valuation	In addition to the prescribed changes in the mortality table and the funding interest rate, the following changes in assumptions were made as part of this valuation: ■ The assumed return on assets is initially established for 2020 at 5.75%. The plan did not exist prior to 2020.

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

2021

This Form is Open to Public Inspection

For calendar plan year 2021 or fiscal plan year beginning 01/01/2021 and ending 12/31/2021

▶ **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
Hitachi Energy USA Inc. Crystal Springs Plant Retirement Income Plan

B Three-digit plan number (PN) ▶ 322

C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF
Hitachi Energy USA Inc.

D Employer Identification Number (EIN)
94-3273443

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

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

Part I Basic Information

1 Enter the valuation date: Month 01 Day 01 Year 2021

2 Assets:

a Market value	**2a**	80,769
b Actuarial value	**2b**	80,439

3 Funding target/participant count breakdown

	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	1	786	786
b For terminated vested participants	2	2,599	2,599
c For active participants	38	45,903	85,712
d Total	41	49,288	89,097

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**	5.59%
6 Target normal cost		
a Present value of current plan year accruals	**6a**	45,311
b Expected plan-related expenses	**6b**	0
c Total (line 6a + line 6b)	**6c**	45,311

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 Michael A. Holderman M.A.H

Signature of actuary — Date: 09/28/2022

Michael A. Holderman — Type or print name of actuary

2006979 — Most recent enrollment number

Willis Towers Watson US LLC — Firm name

704-620-6513 — Telephone number (including area code)

1 Bank of America Center
150 North College Street
Charlotte NC 28202
Address of the firm

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

Part II Beginning of Year Carryover and Prefunding Balances

		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	0
10	Interest on line 9 using prior year's actual return of 8.45%	0	0
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		0
	b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of 5.59%		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	0

Part III Funding Percentages

14	Funding target attainment percentage	14	90.28%
15	Adjusted funding target attainment percentage	15	90.28%
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	100.00%
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
04/07/2022	50,000	0			
		Totals ► 18(b)	50,000	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	46,671

20 Quarterly contributions and liquidity shortfalls:

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

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

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

Liquidity shortfall as of end of quarter of this plan year

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

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

21 Discount rate:

a Segment rates:

1st segment:	2nd segment:	3rd segment:	☐ N/A, full yield curve used
4.75 %	5.36 %	6.11 %	

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 6c)	**31a**	45,311
b Excess assets, if applicable, but not greater than line 31a	**31b**	0

32 Amortization installments:	Outstanding Balance	Installment
a Net shortfall amortization installment	8,658	807
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**	46,118

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

36 Additional cash requirement (line 34 minus line 35)	**36**	46,118
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	**37**	46,671
38 Present value of excess contributions for current year (see instructions)		
a Total (excess, if any, of line 37 over line 36)	**38a**	553
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	Hitachi Energy USA Inc.
EIN/PN	94-3273443 / 322
Plan Name	Hitachi Energy USA Inc. Crystal Springs Plant Retirement Income Plan
Valuation Date	January 1, 2021
Enrolled Actuary	Michael A. Holderman
Enrollment Number	20-06979

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, 2021

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:	Hitachi Energy USA Inc. Crystal Springs Plan Retirement Income plan
EIN / PN:	94-3273443 / 322
Plan Sponsor:	Hitachi Energy USA Inc.
Valuation Date:	January 1, 2021

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V
Statement of Actuarial Assumptions/Methods

Economic Assumptions

Interest rate basis

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

Interest rates	**Reflecting Corridors**	**Not Reflecting Corridors**
■ First segment rate	4.75%	2.22%
■ Second segment rate	5.36%	3.38%
■ Third segment rate	6.11%	3.92%
■ Effective interest rate	5.59%	3.57%

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 $0

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-2019) 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-2019).

- 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%
25	3.40%
30	2.70%
35	2.20%
40	1.70%
45	1.40%
50	1.10%
55	0.80%
60	0.60%
65 and later	0.00%

Disability

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

SCHEDULE SB ATTACHMENTS

Retirement

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 eligibility for early retirement benefits.
- Deferred vested benefit — The later of age 65 or termination of employment.
- 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.

Actuarial Increases

For calculating the actuarially increased benefit for postponed retirement benefits, UP84 mortality and 7.75% interest is used.

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	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). The method of computing the actuarial value of assets complies with rules governing the calculation of such values under the Pension Protection Act of 2006 (PPA). These rules produce smoothed values that reflect the underlying market value of plan assets but fluctuate less than the market value. As a result, the actuarial value of assets will be lower than the market value in some years and greater in other years. However, over the long term under PPA's smoothing rules, the method has a significant bias to produce an actuarial value of assets that is below the market value of assets. For purposes of calculating the actuarial value of assets, expected earnings assumptions of 5.75% for 2020 for 2020 was used. The plan did not exist during 2019, therefore there was no 2019 expected earnings assumption.
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 Enterprise Software Inc. and, based on that review, is not aware of any significant benefits required to be valued that were not.

SCHEDULE SB ATTACHMENTS

Sources of Data and Other Information

The plan sponsor through its third party administrator (Alight), furnished participant data as of 1/1/2021. 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 1/1/2021 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	The plan sponsor does not anticipate paying any plan-related expenses from the trust.
Assumed return for asset smoothing	The assumed return of 5.75% used for asset smoothing is the mean projected portfolio return based on ABB Enterprise Software Inc.'s master trust target asset allocation and Willis Towers Watson's long-term expected rate of return for each asset class based on January 2021 capital market assumptions.

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.

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

Changes in Assumptions and Methods

Change in assumptions and methods since prior valuation	In addition to the prescribed changes in the mortality table and the funding interest rate, the following changes in assumptions were made as part of this valuation: ■ The assumed return on assets is initially established for 2020 at 5.75%. The plan did not exist prior to 2020.

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V
Summary of Plan Provisions

Plan Provisions

The Plan was established on December 31, 2019 as a future service wrap-around plan of the ABB Crystal Springs Plan.

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.

As of December 31, 2019, this plan was established as a future service wrap-around plan for the ABB Crystal Springs Plan. The ABB Crystal Springs plan includes all benefits accrued through December 31, 2019, and this plan includes all future service accruals for active participants as of December 31, 2019.

Definitions

Vesting service

One year for each 1,000 hour calendar year of employment by Kuhlman Electric Corporation. Vesting service includes service earned under the ABB Crystal Springs Plan.

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. Credited service includes service earned under the ABB Crystal Springs Plan.

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

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. The benefit payable from this Plan is offset by the accrued benefit earned under the Crystal Springs Plan as of December 31, 2019.

- 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, offset by the pension benefit earned under the ABB Crystal Springs Plan as of December 31, 2019, reduced 5/9% for each month that retirement precedes Normal Retirement Date.

SCHEDULE SB ATTACHMENTS

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, offset by the accrued benefit earned under the ABB Crystal Springs Plan as of December 31, 2019.
Deferred vested termination	A monthly benefit equal to the benefit level multiplied by years of Credited Service, payable in full at age 65, offset by the benefit earned under the ABB Crystal Springs Plan as of December 31, 2019. 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. The entire disability benefit is paid by AES.
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. The accrued benefit payable from this plan is offset by the accrued benefit earned under the ABB Crystal Springs Plan as of December 31, 2019.

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

None.

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 26
Schedule of Active Participant Data as of January 1, 2021

	Attained Years of Credited Service[1]										
Attained Age	Under 1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 & Over	Total
Under 25	0	0	0	0	0	0	0	0	0	0	0
25-29	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	0	0	0	0	0	0
45-49	0	0	0	0	1	2	7	0	0	0	10
50-54	0	0	1	0	0	0	4	3	1	0	9
55-59	0	0	0	0	0	1	3	3	2	0	9
60-64	0	0	0	0	0	0	1	2	2	0	5
65-69	0	0	0	1	0	0	3	1	0	0	5
70 & over	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	1	1	1	3	18	9	5	0	38

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

Plan Name: Hitachi Energy USA Inc. Crystal Springs Plan Retirement Income plan
EIN / PN: 94-3273443 / 322
Plan Sponsor: Hitachi Energy USA Inc.
Valuation Date: January 1, 2021

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 32
Schedule of Amortization Bases
as of January 1, 2021

Type of Base	Date Established	Initial Amount	Remaining Amortization Period (Years)	Outstanding Balance	Amortization Payment
1. Shortfall	01/01/2021	8,658	15.00000	8,658	807
Total				8,658	807

Plan Name: Hitachi Energy USA Inc. Crystal Springs Plan Retirement Income plan
EIN / PN: 94-3273443 / 322
Plan Sponsor: Hitachi Energy USA Inc.
Valuation Date: January 1, 2021

SCHEDULE SB ATTACHMENTS

Schedule SB – Statement by Enrolled Actuary

Plan Sponsor	Hitachi Energy USA Inc.
EIN/PN	94-3273443 / 322
Plan Name	Hitachi Energy USA Inc. Crystal Springs Plant Retirement Income Plan
Valuation Date	January 1, 2021
Enrolled Actuary	Michael A. Holderman
Enrollment Number	20-06979

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, 2021

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
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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:	Hitachi Energy USA Inc. Crystal Springs Plan Retirement Income plan
EIN / PN:	94-3273443 / 322
Plan Sponsor:	Hitachi Energy USA Inc.
Valuation Date:	January 1, 2021

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V
Summary of Plan Provisions

Plan Provisions

The Plan was established on December 31, 2019 as a future service wrap-around plan of the ABB Crystal Springs Plan.

Covered employees

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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.

As of December 31, 2019, this plan was established as a future service wrap-around plan for the ABB Crystal Springs Plan. The ABB Crystal Springs plan includes all benefits accrued through December 31, 2019, and this plan includes all future service accruals for active participants as of December 31, 2019.

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SCHEDULE SB ATTACHMENTS

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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. The benefit payable from this Plan is offset by the accrued benefit earned under the Crystal Springs Plan as of December 31, 2019.

- Benefit Level

Termination Date	Benefit Level
Effective 01/01/1997	$11.00
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Effective 01/01/2002	$15.00
Effective 01/01/2003	$16.00

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SCHEDULE SB ATTACHMENTS

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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

None.

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 32
Schedule of Amortization Bases
as of January 1, 2021

Type of Base	Date Established	Initial Amount	Remaining Amortization Period (Years)	Outstanding Balance	Amortization Payment
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Total				8,658	807

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