

Form 5500-SF

Department of the Treasury Internal Revenue Service

Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation

Short Form Annual Return/Report of Small Employee Benefit Plan

This form is required to be filed 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-SF.

OMB Nos. 1210-0110 1210-0089

2023

This Form is Open to Public Inspection

Part I Annual Report Identification Information

For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 12/31/2023

A This return/report is for: [X] a single-employer plan [] a multiple-employer plan (not multiemployer) (Pension Plan filers checking this box must attach Schedule MEP. Other plans must attach a list of participating employer information in accordance with the form instructions.)

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 Check box if filing under: [X] Form 5558 [] automatic extension [] DFVC program [X] special extension (enter description) HURRICANE HELENE: SC-2024-08

D If the plan is a collectively-bargained plan, check here []

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 THE RETIREMENT PLAN FOR SALARIED EMPLOYEES OF ADVANCED COMPOSITE MATERIALS 1b Three-digit plan number (PN) 002

1c Effective date of plan 01/01/1987

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) HAYDALE CERAMIC TECHNOLOGIES, LLC 2b Employer Identification Number (EIN) 58-1705799

2c Sponsor's telephone number 864-877-0123

2d Business code (see instructions) 333900

1446 S. BUNCOMBE ROAD GREER, SC 29651-6517

3a Plan administrator's name and address [X] Same as Plan Sponsor. 3b Administrator's EIN

3c Administrator's telephone number

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

a Sponsor's name 4d PN

c Plan Name

5a Total number of participants at the beginning of the plan year 78

b Total number of participants at the end of the plan year 77

c(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item)

c(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)

d(1) Total number of active participants at the beginning of the plan year 2

d(2) Total number of active participants at the end of the plan year 2

e Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested 0

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, if applicable, a Schedule SB or Schedule MB completed and signed by an enrolled actuary, 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.

Table with 4 columns: SIGN HERE, Signature of plan administrator, Date, Enter name of individual signing as plan administrator

Table with 4 columns: SIGN HERE, Signature of employer/plan sponsor, Date, Enter name of individual signing as employer or plan sponsor

- 6a** Were all of the plan's assets during the plan year invested in eligible assets? (See instructions.)..... Yes No
- b** Are you claiming a waiver of the annual examination and report of an independent qualified public accountant (IQPA) under 29 CFR 2520.104-46? (See instructions on waiver eligibility and conditions.)..... Yes No
- If you answered "No" to either line 6a or line 6b, the plan cannot use Form 5500-SF and must instead use Form 5500.**
- c** 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 528780. (See instructions.)

Part III Financial Information			
7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	3320043	3685140
b Total plan liabilities	7b	0	0
c Net plan assets (subtract line 7b from line 7a)	7c	3320043	3685140
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
a Contributions received or receivable from:			
(1) Employers	8a(1)	164000	
(2) Participants	8a(2)	0	
(3) Others (including rollovers)	8a(3)	0	
b Other income (loss)	8b	626905	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		790905
d Benefits paid (including direct rollovers and insurance premiums to provide benefits)	8d	311619	
e Certain deemed and/or corrective distributions (see instructions) .	8e	0	
f Administrative service providers (salaries, fees, commissions)	8f	78718	
g Other expenses	8g	35471	
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		425808
i Net income (loss) (subtract line 8h from line 8c)	8i		365097
j Transfers to (from) the plan (see instructions)	8j	0	

Part IV Plan Characteristics	
9a	If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions: <u>1A 1I</u>
b	If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:

Part V Compliance Questions				
10 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)	10a		X	
b Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.)	10b		X	
c Was the plan covered by a fidelity bond?	10c	X		1000000
d Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	10d		X	
e Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service, or other organization that provides some or all of the benefits under the plan? (See instructions.)	10e		X	
f Has the plan failed to provide any benefit when due under the plan?	10f		X	
g Did the plan have any participant loans? (If "Yes," enter amount as of year-end.)	10g		X	
h If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	10h		X	
i If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3	10i			

Part VI Pension Funding Compliance

11 Is this a defined benefit plan subject to minimum funding requirements? (If "Yes," see instructions and complete Schedule SB (Form 5500) and lines 11a and b below.) If this is a defined contribution pension plan, leave line 11 blank and complete line 12 below. Yes No

a Enter the unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 **11a** 166292

b PBGC missed contribution reporting requirements. If the plan is covered by PBGC and the amount reported on line 11a is greater than \$0, 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 _____

12 Is this a defined contribution plan subject to the minimum funding requirements of section 412 of the Code or section 302 of ERISA? Yes No
 (If "Yes," complete line 12a or lines 12b, 12c, 12d, and 12e below, as applicable.) If this is a defined benefit pension plan, leave line 12 blank and complete line 11 above.

a 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 letter ruling granting the waiver. Month _____ Day _____ Year _____

If you completed line 12a, complete lines 3, 9, and 10 of Schedule MB (Form 5500), and skip to line 13.

b Enter the minimum required contribution for this plan year **12b**

c Enter the amount contributed by the employer to the plan for this plan year **12c**

d Subtract the amount in line 12c from the amount in line 12b. Enter the result (enter a minus sign to the left of a negative amount) **12d**

e Will the minimum funding amount reported on line 12d be met by the funding deadline? Yes No N/A

Part VII Plan Terminations and Transfers of Assets

13a Has a resolution to terminate the plan been adopted in any plan year? Yes No

a If "Yes," enter the amount of any plan assets that reverted to the employer this year. **13a**

b Were all the plan assets distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC? Yes No

c 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.)

13c(1) Name of plan(s):	13c(2) EIN(s)	13c(3) PN(s)

Part VIII IRS Compliance Questions

14a Does the plan satisfy the coverage and nondiscrimination tests of Code sections 410(b) and 401(a)(4) by combining this plan with any other plans under the permissive aggregation rules? Yes No

14b If this is a Code section 401(k) plan, check all boxes that apply to indicate how the plan is intended to satisfy the nondiscrimination requirements for employee deferrals and employer matching contributions (as applicable) under Code sections 401(k)(3) and 401(m)(2).

- Design-based safe harbor method
- "Prior year" ADP test
- "Current year" ADP test
- N/A

15 If the plan sponsor is an adopter of a pre-approved plan that received a favorable IRS Opinion Letter, enter the date of the Opinion Letter 03/30/2018 (MM/DD/YYYY) and the Opinion Letter serial number J501739A.

SCHEDULE SB (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>	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.	<small>OMB No. 1210-0110</small> 2023 This Form is Open to Public Inspection
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For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 12/31/2023

▶ **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>THE RETIREMENT PLAN FOR SALARIED EMPLOYEES OF ADVANCED COMPOSITE MATERIALS</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>HAYDALE CERAMIC TECHNOLOGIES, LLC</u>	D Employer Identification Number (EIN) <u>58-1705799</u>	
E Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B	F Prior year plan size: <input checked="" type="checkbox"/> 100 or fewer <input type="checkbox"/> 101-500 <input type="checkbox"/> More than 500	

Part I Basic Information

1	Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2023</u>		
2	Assets:		
	a Market value	2a	<u>3316552</u>
	b Actuarial value	2b	<u>3316552</u>
3	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target
	a For retired participants and beneficiaries receiving payment	<u>57</u>	<u>3063463</u>
	b For terminated vested participants	<u>19</u>	<u>655918</u>
	c For active participants	<u>2</u>	<u>435914</u>
	d Total	<u>78</u>	<u>4155295</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>5.13 %</u>
6	Target normal cost		
	a Present value of current plan year accruals	6a	<u>0</u>
	b Expected plan-related expenses	6b	<u>84495</u>
	c Target normal cost	6c	<u>84495</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>J. GREGORY GASTON, F.C.A., M.A.A.A.</u> Type or print name of actuary <u>J.G. GASTON & ASSOCIATES, INC.</u> Firm name <u>40 NORTH MERRIMON AVENUE, SUITE 303</u> <u>ASHEVILLE, NC 28804</u> Address of the firm	<u>03/20/2025</u> Date <u>23-03772</u> Most recent enrollment number <u>828-258-1876</u> Telephone number (including area code)
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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 <u>-11.85</u> %	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 <u>5.30</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	0

Part III Funding Percentages			
14	Funding target attainment percentage	14	79.81 %
15	Adjusted funding target attainment percentage	15	79.81 %
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	96.59 %
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		
10/15/2023	18000	0	04/12/2024	18000	0		
11/15/2023	18000	0	05/15/2024	18000	0		
12/15/2023	18000	0	06/13/2024	5000	0		
01/15/2024	18000	0	07/11/2024	5000	0		
02/16/2024	18000	0	08/12/2024	5000	0		
03/18/2024	18000	0	09/13/2024	5000	0		
			Totals ▶	18(b)	164000	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	132556
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	3550

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: 5.00 %	3rd segment: 5.74 %	<input type="checkbox"/> N/A, full yield curve used
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b Applicable month (enter code)..... **21b** 2

22 Weighted average retirement age **22** 65

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

Part VI Miscellaneous Items

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

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

26 Demographic and benefit information

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

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

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

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	132556
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	132556
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	84495
b Excess assets, if applicable, but not greater than line 31a	31b	0

32 Amortization installments:

	Outstanding Balance	Installment
a Net shortfall amortization installment	838743	85347
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

34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)..... **34** 169842

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

36 Additional cash requirement (line 34 minus line 35)..... **36** 169842

37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)..... **37** 3550

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)

40 Unpaid minimum required contributions for all years

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

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

**SCHEDULE SB
(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

2023

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For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 12/31/2023

▶ **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 The Retirement Plan for Salaried Employees of Advanced Composite Materials		B Three-digit plan number (PN) ▶	002
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF Haydale Ceramic Technologies, LLC		D Employer Identification Number (EIN) 58-1705799	
E Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B		F Prior year plan size: <input checked="" type="checkbox"/> 100 or fewer <input type="checkbox"/> 101-500 <input type="checkbox"/> More than 500	

Part I Basic Information

1 Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2023</u>			
2 Assets:			
a Market value.....	2a	3,316,552	
b Actuarial value.....	2b	3,316,552	
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.....	57	3,063,463	3,063,463
b For terminated vested participants.....	19	655,918	655,918
c For active participants.....	2	435,914	435,914
d Total.....	78	4,155,295	4,155,295
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... <input type="checkbox"/>			
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	5.13%	
6 Target normal cost			
a Present value of current plan year accruals.....	6a	0	
b Expected plan-related expenses.....	6b	84,495	
c Target normal cost.....	6c	84,495	

Statement by Enrolled Actuary

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

SIGN HERE		<u>01/20/2025</u>
	Signature of actuary	Date
J. Gregory Gaston, F.C.A., M.A.A.A.	Type or print name of actuary	2303772
J.G. Gaston & Associates, Inc.	Firm name	828-258-1876
40 North Merrimon Avenue, Suite 303	Address of the firm	Telephone number (including area code)
Asheville NC 28804		

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

SCHEDULE SB (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <hr/> <small>Department of Labor Employee Benefits Security Administration</small> <hr/> <small>Pension Benefit Guaranty Corporation</small>	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 <hr/> 2023 <hr/> This Form is Open to Public Inspection
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For calendar plan year 2023 or fiscal plan year beginning 01/01/2023 and ending 12/31/2023

▶ **Round off amounts to nearest dollar.**
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A Name of plan The Retirement Plan for Salaried Employees of Advanced Composite Materials	B Three-digit plan number (PN) ▶	002
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF Haydale Ceramic Technologies, LLC	D Employer Identification Number (EIN) 58-1705799	
E Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B	F Prior year plan size: <input checked="" type="checkbox"/> 100 or fewer <input type="checkbox"/> 101-500 <input type="checkbox"/> More than 500	

Part I Basic Information			
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c For active participants.....	2	435,914	435,914
d Total	78	4,155,295	4,155,295
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... <input type="checkbox"/>			
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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		5.13%
6 Target normal cost			
a Present value of current plan year accruals.....	6a		0
b Expected plan-related expenses	6b		84,495
c Target normal cost.....	6c		84,495

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>J. Gregory Gaston, F.C.A., M.A.A.A.</u> Type or print name of actuary <u>J.G. Gaston & Associates, Inc.</u> Firm name <u>40 North Merrimon Avenue, Suite 303</u> <u>Asheville NC 28804</u> Address of the firm	Date <u>2303772</u> Most recent enrollment number <u>828-258-1876</u> Telephone number (including area code)
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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 <u>-11.85%</u>	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 <u>5.30%</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	0

Part III Funding Percentages			
14	Funding target attainment percentage.....	14	79.81 %
15	Adjusted funding target attainment percentage	15	79.81 %
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	96.59 %
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	
10/15/2023	18,000	0				
11/15/2023	18,000	0				
12/15/2023	18,000	0				
01/15/2024	18,000	0				
02/16/2024	18,000	0				
03/18/2024	18,000	0				
04/12/2024	18,000	0				
05/15/2024	18,000	0				
06/13/2024	5,000	0				
07/11/2024	5,000	0				
08/12/2024	5,000	0				
09/13/2024	5,000	0				
Totals ▶			18(b)	164,000	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	132,556
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	3,550

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: 5.00 %	3rd segment: 5.74 %	<input type="checkbox"/> N/A, full yield curve used
b Applicable month (enter code).....				21b 2
22 Weighted average retirement age				22 65
23 Mortality table(s) (see instructions)	<input checked="" type="checkbox"/> Prescribed - combined <input type="checkbox"/> Prescribed - separate <input type="checkbox"/> 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.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
26 Demographic and benefit information		
a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> 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	132,556
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	132,556
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	84,495	
b Excess assets, if applicable, but not greater than line 31a	31b	0	
32 Amortization installments:	Outstanding Balance		Installment
a Net shortfall amortization installment	838,743		85,347
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	169,842	
		Carryover balance	Prefunding balance
35 Balances elected for use to offset funding requirement.....		0	0
36 Additional cash requirement (line 34 minus line 35).....	36	169,842	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....	37	3,550	
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	166,292	
40 Unpaid minimum required contributions for all years.....	40	166,292	

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

41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. <input type="checkbox"/> 2019 <input type="checkbox"/> 2020 <input type="checkbox"/> 2021

Schedule SB, Line 19 - Discounted Employer Contributions

Plan Name: The Retirement Plan for Salaried Employees of Advanced Composite

EIN: 58-1705799

Sponsor: Haydale Ceramic Technologies, LLC

PN:

002

PYE: December 31, 2023

<u>Date</u>	<u>Employer</u>	<u>Employee</u>	<u>Valuation Date</u>	<u>Effective Rate</u>	<u>Interest Adjusted Contribution</u>	<u>Required Quarterly Installment Date</u>	<u>Late Quarterly Interest Adjustment</u>
10/15/2023	18,000		01/01/2021	5.47%	13,857	01/15/2022	(1,601)
11/15/2023	793		01/01/2021	5.47%	603	01/15/2022	(74)
11/15/2023	17,207		01/01/2021	5.47%	14,709		
12/15/2023	18,000		01/01/2021	5.47%	15,318		
01/15/2024	2,998		01/01/2021	5.47%	2,539		
01/15/2024	15,002		01/01/2022	5.30%	12,165	04/15/2022	(1,339)
02/16/2024	4,242		01/01/2022	5.30%	3,403	04/15/2022	(398)
02/16/2024	13,758		01/01/2022	5.30%	11,218	07/15/2022	(1,110)
03/18/2024	5,487		01/01/2022	5.30%	4,428	07/15/2022	(467)
03/18/2024	12,514		01/01/2022	5.30%	10,264	10/15/2022	(900)
04/12/2024	6,731		01/01/2022	5.30%	5,476	10/15/2022	(508)
04/12/2024	11,269		01/01/2022	5.30%	9,316	01/15/2023	(703)
05/15/2024	7,975		01/01/2022	5.30%	6,522	01/15/2023	(535)
05/15/2024	10,025		01/01/2022	5.30%	8,871		
06/13/2024	5,000		01/01/2022	5.30%	4,406		
07/11/2024	5,000		01/01/2022	5.30%	4,389		
08/12/2024	5,000		01/01/2022	5.30%	4,369		
09/13/2024	808		01/01/2022	5.30%	703		
09/13/2024	4,192		01/01/2023	5.13%	3,550	04/15/2023	(300)
Total	4,192	0			3,550		(300)

Schedule SB, Line 22 - Description of Weighted Average Retirement Age

Plan Name: The Retirement Plan for Salaried Employees of Advanced Composite I
 Plan Sponsor: Haydale Ceramic Technologies, LLC
 PYE: December 31, 2023

EIN: 58-1705799
 PN: 002

<u>Age</u>	<u>Males</u>	<u>Females</u>	<u>Weight</u>	<u>Weight x Age</u>
55	N/A	N/A	0.00%	0.00
56	N/A	N/A	0.00%	0.00
57	N/A	N/A	0.00%	0.00
58	N/A	N/A	0.00%	0.00
59	N/A	N/A	0.00%	0.00
60	N/A	N/A	0.00%	0.00
61	N/A	N/A	0.00%	0.00
62	N/A	N/A	0.00%	0.00
63	N/A	N/A	0.00%	0.00
64	N/A	N/A	0.00%	0.00
65	N/A	N/A	100.00%	65.00
66	N/A	N/A	0.00%	0.00
67	N/A	N/A	0.00%	0.00
68	N/A	N/A	0.00%	0.00
69	N/A	N/A	0.00%	0.00
70	N/A	N/A	0.00%	0.00
71	N/A	N/A	0.00%	0.00
72	N/A	N/A	0.00%	0.00
73	N/A	N/A	0.00%	0.00
74	N/A	N/A	0.00%	0.00
75	N/A	N/A	0.00%	0.00
Total	N/A	N/A		65.00
Weighted Average:	65	65		

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

ACTUARIAL ASSUMPTIONS

INVESTMENT RETURN: Pre-Retirement: 5.00% per annum
Post Retirement: 5.00% per annum

SALARY INCREASES: Not applicable due to the plan freeze.

MORTALITY: 2023 PPA Mortality Table (RP-2014 Mortality, base year 2006, adjusted to 2023 with Mortality Improvement Scale MP-2021). Sample rates of mortality per 1000 lives are as follows:

<u>Age</u>	<u>Males</u>	<u>Females</u>
35	0.4	0.2
45	0.8	0.4
55	2.3	1.3
65	8.7	5.9
75	23.8	17.7
85	76.6	61.2

MORTALITY IMPROVEMENTS: Mortality improvements are considered in both the standard actuarial and the PPA determinations.

TERMINATION OF EMPLOYMENT: None assumed.

DISABILITY: None assumed.

MARRIAGE: It is assumed that 100 percent of plan participants are married and that husbands are four years older than their wives.

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

RETIREMENT: All participants are assumed to retire at age 65, or the current age if later.

EXPENSES: Assumed to be equal to the prior year's administrative expenses.

ASSET VALUATION METHOD

MARKET VALUE. The actuarial asset value is equal to 100% of the market value of assets.

ACTUARIAL COST METHOD

INDIVIDUAL AGGREGATE ACTUARIAL COST METHOD. This method allocates the excess of the actuarial present value of projected benefits over the actuarial value of assets, on a level basis over the future earnings of each employee between each employee's current age and assumed retirement age. This calculation is performed on each individual. The portion of this actuarial present value attributable to the current year is called the normal cost.

Under this method, actuarial gains (losses) serve to decrease (increase) the future normal costs.

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods**Plan Name:****The Retirement Plan for Salaried Employees of Advanced Composite Materials****Plan Sponsor: Haydale Ceramic Technologies, LLC****EIN: 58-1705799 PN: 002 PYE: December 31, 2023**STATUTORY ACTUARIAL ASSUMPTIONS**SEGMENT RATES:**

Segment rates compose the three rate interest basis for determining the Funding Target and the Target Normal Cost under PPA. These rates are based on a blend of corporate bond rates for the month of November, 2022 and apply to specific periods in the future.

Segment Rate 1:	1.76% (First five years)
Segment Rate 2:	3.36% (Next fifteen years)
Segment Rate 3:	3.76% (All remaining periods)

Beginning in 2012, plans were required to apply an interest rate corridor to the 25-year average segment rates. The initial corridor extended from 90% to 110% of the 25-year average segment rate. The corridor initially transitioned over five years to 70% to 130% of the 25-year average segment rate in increments of 5% per year. The Highway and Transportation Act modified the MAP-21 interest rate corridors for plan years 2013 to 2017, fixing the corridor at 90% to 110% during those years. The modifications were optional for 2013. The Bipartisan Budget Act of 2015 extended the period of the initial corridor from 2017 to 2020 for plan years beginning in 2016. The American Rescue Plan Act of 2021 (ARPA) set a floor of 5.00% for any segment rate and changed the corridor to 95% to 105% for years 2020 to 2025. The corridor widens by 5% each year (in each direction) beginning in 2026 until reaching 70% to 130% in 2030. Plans could elect to delay this change until 2022. The Plan Sponsor elected to have ARPA begin in 2019. The resulting “stabilized” segment rates are used for purposes of determining the funding target and the target normal cost applicable to the determination of the minimum required contribution. For 2023, these “stabilized” segment rates are as follows:

Segment Rate 1:	4.75% (First five years)
Segment Rate 2:	5.00% (Next fifteen years)
Segment Rate 3:	5.74% (All remaining periods)

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

EFFECTIVE RATE: 5.13%

The Effective Rate is the single interest rate which would produce the Funding Target computed using the set of three Segment Rates (“stabilized” Segment Rates beginning in 2012).

PPA MORTALITY: 2023 PPA Mortality Table (RP-2014 Mortality, base year 2006, adjusted to 2023 with Mortality Improvement Scale MP-2021). Sample rates of mortality per 1000 lives are as follows:

<u>Age</u>	<u>Males</u>	<u>Females</u>
35	0.4	0.2
45	0.8	0.4
55	2.3	1.3
65	8.7	5.9
75	23.8	17.7
85	76.6	61.2

MORTALITY IMPROVEMENTS:

The PPA Mortality Table for plans under 500 participants is a static table. It is a combination of the annuitant table which is projected to 15 years beyond the actuarial valuation date and the non-annuitant table which is projected 7 years beyond the actuarial valuation date.

RETIREMENT (FOR PPA):

Age 65 or current age if beyond age 65.

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

ACTUARIAL COST METHOD

PROJECTED UNIT CREDIT ACTUARIAL COST METHOD. This method allocates the actuarial present value of each individual's accrued benefit to years in which the benefit is accrued. The benefit is allocated to periods based on the plan's accrual formula and compensation projected to the year of retirement, termination, or death. The actuarial present value of the benefit to be earned in the current year is called the normal cost.

The actuarial present value of benefits allocated to all periods prior to the valuation date is the actuarial accrued liability. The excess of the actuarial accrued liability over the actuarial value of assets is the unfunded actuarial accrued liability. The contribution amount consists of two components: the normal cost described above and an amortization of the unfunded actuarial accrued liability over various periods based on the source of the liability.

Gains (losses) serve to decrease (increase) the unfunded actuarial accrued liability.

Schedule SB, Part V - Summary of Plan Provisions

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

EFFECTIVE DATE: January 1, 1987. The plan was last amended and restated effective January 1, 2009. The plan was frozen effective February 28, 2009.

COMPENSATION: Total salary and wages paid.

YEAR OF SERVICE: Elapsed time, beginning with the Effective Date.

ELIGIBILITY: No employees enter the Plan after February 28, 2009.

ACCRUED BENEFIT: A participant's Normal Retirement Benefit based on service through the determination date.

NORMAL Eligibility: Attainment of age 65.

RETIREMENT:

Commencement: First of the month coincident with or next following Normal Retirement Age.

Benefit amount: Frozen accrued benefit payable monthly at Normal Retirement Date. The accrued benefit is equal to the sum of benefit credits earned prior to the date of the plan freeze. Prior to the plan freeze, and after 1988, benefit credits were equal to 1.35% of Compensation, plus .5% of Compensation in excess of Covered Compensation. For 1987 and 1988, benefit credits were equal to 1.00% of Compensation up to \$32,700, plus 2.00% of Compensation in excess of \$32,700.

Schedule SB, Part V - Summary of Plan Provisions

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

**EARLY
RETIREMENT:**

Eligibility: Attainment of age 55.

Commencement: First of the month following actual retirement.

Benefit amount: Accrued Benefit as of the early retirement date, reduced by 5% per year by which commencement precedes age 62 .

**DELAYED
RETIREMENT:**

Eligibility: Retirement beyond age 65.

Commencement: First of the month following actual retirement.

Benefit amount: Greater of (i) Normal Retirement Benefit using continued service and compensation and (ii) the actuarial equivalent of the Normal Retirement Benefit.

**DISABILITY
RETIREMENT:**

Eligibility: Employee with 15 or more years of Vesting Service becomes disabled at any age and retires due to disability and the disability continues for 6 months.

Commencement: First of the month following disability.

Benefit amount: Actuarial equivalent of accrued benefit at time of disability (100% vested at disability), reduced for commencement before age 65.

**TERMINATION
BENEFIT:**

Eligibility: Termination of employment before retirement and after 3 years of vesting service.

Commencement: Benefit is payable upon normal retirement or upon the date the employee meets the age and service requirements for an early retirement benefit.

Benefit Amount: Accrued Benefit multiplied by the vesting percentage shown below:

Less than 3 years:	0%
Three or more years:	100%

Schedule SB, Part V - Summary of Plan Provisions

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

DEATH BENEFIT:

Eligibility: Employee dies during active employment or a terminated Participant dies prior to commencement of his retirement benefit.

Commencement: Participant's Normal or Early Retirement Date.

Benefit Amount: Qualified preretirement 50% survivor annuity for married participants with a five year guarantee. For single participants, a five year guaranteed benefit.

FORM OF PAYMENT:

Straight life annuity with five year guarantee for single participants, joint & 50% survivor annuity with five year guarantee for married participants. Optional forms include: 5 or 10 year certain and continuous annuity, and a joint and 25%, 50%, 75%, or 100% survivor annuity with five year guarantee.

**ACTUARIAL
EQUIVALENCE:**

1983 Group Annuity Mortality Table, Unisex, using 5.00% interest

Schedule SB, Line 32 - Schedule of Amortization Bases

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

SHORTFALL AMORTIZATION BASES

<u>Date</u> <u>Estab</u>	<u>Reason</u>	<u>Initial</u> <u>Amount</u>	<u>Init</u> <u>Yrs</u>	<u>Curr</u> <u>Yrs</u>	<u>O/Stand</u> <u>Balance</u>	<u>Annual</u> <u>Payment</u>
01/01/19	ARPA Fresh Start Funding Shortfall	792,153	15.0	11.0	640,304	73,241
01/01/20	Actuarial (Gain)/Loss	(424,096)	15.0	12.0	(357,527)	(38,332)
01/01/21	Actuarial (Gain)/Loss	42,754	15.0	13.0	39,378	3,984
01/01/22	Actuarial (Gain)/Loss	(200,142)	15.0	14.0	(192,612)	(18,495)
01/01/23	Actuarial (Gain)/Loss	709,200	15.0	15.0	<u>709,200</u>	<u>64,949</u>
	Total				<u>838,743</u>	<u>85,347</u>

Schedule SB, Line 19 - Discounted Employer Contributions

Plan Name: The Retirement Plan for Salaried Employees of Advanced Composite

EIN: 58-1705799

Sponsor: Haydale Ceramic Technologies, LLC

PN:

002

PYE: December 31, 2023

<u>Date</u>	<u>Employer</u>	<u>Employee</u>	<u>Valuation Date</u>	<u>Effective Rate</u>	<u>Interest Adjusted Contribution</u>	<u>Required Quarterly Installment Date</u>	<u>Late Quarterly Interest Adjustment</u>
10/15/2023	18,000		01/01/2021	5.47%	13,857	01/15/2022	(1,601)
11/15/2023	793		01/01/2021	5.47%	603	01/15/2022	(74)
11/15/2023	17,207		01/01/2021	5.47%	14,709		
12/15/2023	18,000		01/01/2021	5.47%	15,318		
01/15/2024	2,998		01/01/2021	5.47%	2,539		
01/15/2024	15,002		01/01/2022	5.30%	12,165	04/15/2022	(1,339)
02/16/2024	4,242		01/01/2022	5.30%	3,403	04/15/2022	(398)
02/16/2024	13,758		01/01/2022	5.30%	11,218	07/15/2022	(1,110)
03/18/2024	5,487		01/01/2022	5.30%	4,428	07/15/2022	(467)
03/18/2024	12,514		01/01/2022	5.30%	10,264	10/15/2022	(900)
04/12/2024	6,731		01/01/2022	5.30%	5,476	10/15/2022	(508)
04/12/2024	11,269		01/01/2022	5.30%	9,316	01/15/2023	(703)
05/15/2024	7,975		01/01/2022	5.30%	6,522	01/15/2023	(535)
05/15/2024	10,025		01/01/2022	5.30%	8,871		
06/13/2024	5,000		01/01/2022	5.30%	4,406		
07/11/2024	5,000		01/01/2022	5.30%	4,389		
08/12/2024	5,000		01/01/2022	5.30%	4,369		
09/13/2024	808		01/01/2022	5.30%	703		
09/13/2024	4,192		01/01/2023	5.13%	3,550	04/15/2023	(300)
Total	4,192	0			3,550		(300)

Schedule SB, Line 22 - Description of Weighted Average Retirement Age

Plan Name: The Retirement Plan for Salaried Employees of Advanced Composite I
 Plan Sponsor: Haydale Ceramic Technologies, LLC
 PYE: December 31, 2023

EIN: 58-1705799
 PN: 002

<u>Age</u>	<u>Males</u>	<u>Females</u>	<u>Weight</u>	<u>Weight x Age</u>
55	N/A	N/A	0.00%	0.00
56	N/A	N/A	0.00%	0.00
57	N/A	N/A	0.00%	0.00
58	N/A	N/A	0.00%	0.00
59	N/A	N/A	0.00%	0.00
60	N/A	N/A	0.00%	0.00
61	N/A	N/A	0.00%	0.00
62	N/A	N/A	0.00%	0.00
63	N/A	N/A	0.00%	0.00
64	N/A	N/A	0.00%	0.00
65	N/A	N/A	100.00%	65.00
66	N/A	N/A	0.00%	0.00
67	N/A	N/A	0.00%	0.00
68	N/A	N/A	0.00%	0.00
69	N/A	N/A	0.00%	0.00
70	N/A	N/A	0.00%	0.00
71	N/A	N/A	0.00%	0.00
72	N/A	N/A	0.00%	0.00
73	N/A	N/A	0.00%	0.00
74	N/A	N/A	0.00%	0.00
75	N/A	N/A	0.00%	0.00
Total	N/A	N/A		65.00
Weighted Average:	65	65		

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

ACTUARIAL ASSUMPTIONS

INVESTMENT RETURN: Pre-Retirement: 5.00% per annum
Post Retirement: 5.00% per annum

SALARY INCREASES: Not applicable due to the plan freeze.

MORTALITY: 2023 PPA Mortality Table (RP-2014 Mortality, base year 2006, adjusted to 2023 with Mortality Improvement Scale MP-2021). Sample rates of mortality per 1000 lives are as follows:

<u>Age</u>	<u>Males</u>	<u>Females</u>
35	0.4	0.2
45	0.8	0.4
55	2.3	1.3
65	8.7	5.9
75	23.8	17.7
85	76.6	61.2

MORTALITY IMPROVEMENTS: Mortality improvements are considered in both the standard actuarial and the PPA determinations.

TERMINATION OF EMPLOYMENT: None assumed.

DISABILITY: None assumed.

MARRIAGE: It is assumed that 100 percent of plan participants are married and that husbands are four years older than their wives.

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

RETIREMENT: All participants are assumed to retire at age 65, or the current age if later.

EXPENSES: Assumed to be equal to the prior year's administrative expenses.

ASSET VALUATION METHOD

MARKET VALUE. The actuarial asset value is equal to 100% of the market value of assets.

ACTUARIAL COST METHOD

INDIVIDUAL AGGREGATE ACTUARIAL COST METHOD. This method allocates the excess of the actuarial present value of projected benefits over the actuarial value of assets, on a level basis over the future earnings of each employee between each employee's current age and assumed retirement age. This calculation is performed on each individual. The portion of this actuarial present value attributable to the current year is called the normal cost.

Under this method, actuarial gains (losses) serve to decrease (increase) the future normal costs.

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods**Plan Name:****The Retirement Plan for Salaried Employees of Advanced Composite Materials****Plan Sponsor: Haydale Ceramic Technologies, LLC****EIN: 58-1705799 PN: 002 PYE: December 31, 2023**STATUTORY ACTUARIAL ASSUMPTIONS**SEGMENT RATES:**

Segment rates compose the three rate interest basis for determining the Funding Target and the Target Normal Cost under PPA. These rates are based on a blend of corporate bond rates for the month of November, 2022 and apply to specific periods in the future.

Segment Rate 1:	1.76% (First five years)
Segment Rate 2:	3.36% (Next fifteen years)
Segment Rate 3:	3.76% (All remaining periods)

Beginning in 2012, plans were required to apply an interest rate corridor to the 25-year average segment rates. The initial corridor extended from 90% to 110% of the 25-year average segment rate. The corridor initially transitioned over five years to 70% to 130% of the 25-year average segment rate in increments of 5% per year. The Highway and Transportation Act modified the MAP-21 interest rate corridors for plan years 2013 to 2017, fixing the corridor at 90% to 110% during those years. The modifications were optional for 2013. The Bipartisan Budget Act of 2015 extended the period of the initial corridor from 2017 to 2020 for plan years beginning in 2016. The American Rescue Plan Act of 2021 (ARPA) set a floor of 5.00% for any segment rate and changed the corridor to 95% to 105% for years 2020 to 2025. The corridor widens by 5% each year (in each direction) beginning in 2026 until reaching 70% to 130% in 2030. Plans could elect to delay this change until 2022. The Plan Sponsor elected to have ARPA begin in 2019. The resulting “stabilized” segment rates are used for purposes of determining the funding target and the target normal cost applicable to the determination of the minimum required contribution. For 2023, these “stabilized” segment rates are as follows:

Segment Rate 1:	4.75% (First five years)
Segment Rate 2:	5.00% (Next fifteen years)
Segment Rate 3:	5.74% (All remaining periods)

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

EFFECTIVE RATE: 5.13%

The Effective Rate is the single interest rate which would produce the Funding Target computed using the set of three Segment Rates (“stabilized” Segment Rates beginning in 2012).

PPA MORTALITY: 2023 PPA Mortality Table (RP-2014 Mortality, base year 2006, adjusted to 2023 with Mortality Improvement Scale MP-2021). Sample rates of mortality per 1000 lives are as follows:

<u>Age</u>	<u>Males</u>	<u>Females</u>
35	0.4	0.2
45	0.8	0.4
55	2.3	1.3
65	8.7	5.9
75	23.8	17.7
85	76.6	61.2

MORTALITY IMPROVEMENTS:

The PPA Mortality Table for plans under 500 participants is a static table. It is a combination of the annuitant table which is projected to 15 years beyond the actuarial valuation date and the non-annuitant table which is projected 7 years beyond the actuarial valuation date.

RETIREMENT (FOR PPA):

Age 65 or current age if beyond age 65.

Schedule SB, Part V - Statement of Actuarial Assumptions/Methods

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

ACTUARIAL COST METHOD

PROJECTED UNIT CREDIT ACTUARIAL COST METHOD. This method allocates the actuarial present value of each individual's accrued benefit to years in which the benefit is accrued. The benefit is allocated to periods based on the plan's accrual formula and compensation projected to the year of retirement, termination, or death. The actuarial present value of the benefit to be earned in the current year is called the normal cost.

The actuarial present value of benefits allocated to all periods prior to the valuation date is the actuarial accrued liability. The excess of the actuarial accrued liability over the actuarial value of assets is the unfunded actuarial accrued liability. The contribution amount consists of two components: the normal cost described above and an amortization of the unfunded actuarial accrued liability over various periods based on the source of the liability.

Gains (losses) serve to decrease (increase) the unfunded actuarial accrued liability.

Schedule SB, Part V - Summary of Plan Provisions

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

EFFECTIVE DATE: January 1, 1987. The plan was last amended and restated effective January 1, 2009. The plan was frozen effective February 28, 2009.

COMPENSATION: Total salary and wages paid.

YEAR OF SERVICE: Elapsed time, beginning with the Effective Date.

ELIGIBILITY: No employees enter the Plan after February 28, 2009.

ACCRUED BENEFIT: A participant's Normal Retirement Benefit based on service through the determination date.

NORMAL RETIREMENT: Eligibility: Attainment of age 65.

Commencement: First of the month coincident with or next following Normal Retirement Age.

Benefit amount: Frozen accrued benefit payable monthly at Normal Retirement Date. The accrued benefit is equal to the sum of benefit credits earned prior to the date of the plan freeze. Prior to the plan freeze, and after 1988, benefit credits were equal to 1.35% of Compensation, plus .5% of Compensation in excess of Covered Compensation. For 1987 and 1988, benefit credits were equal to 1.00% of Compensation up to \$32,700, plus 2.00% of Compensation in excess of \$32,700.

Schedule SB, Part V - Summary of Plan Provisions

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

**EARLY
RETIREMENT:**

Eligibility: Attainment of age 55.

Commencement: First of the month following actual retirement.

Benefit amount: Accrued Benefit as of the early retirement date, reduced by 5% per year by which commencement precedes age 62 .

**DELAYED
RETIREMENT:**

Eligibility: Retirement beyond age 65.

Commencement: First of the month following actual retirement.

Benefit amount: Greater of (i) Normal Retirement Benefit using continued service and compensation and (ii) the actuarial equivalent of the Normal Retirement Benefit.

**DISABILITY
RETIREMENT:**

Eligibility: Employee with 15 or more years of Vesting Service becomes disabled at any age and retires due to disability and the disability continues for 6 months.

Commencement: First of the month following disability.

Benefit amount: Actuarial equivalent of accrued benefit at time of disability (100% vested at disability), reduced for commencement before age 65.

**TERMINATION
BENEFIT:**

Eligibility: Termination of employment before retirement and after 3 years of vesting service.

Commencement: Benefit is payable upon normal retirement or upon the date the employee meets the age and service requirements for an early retirement benefit.

Benefit Amount: Accrued Benefit multiplied by the vesting percentage shown below:

Less than 3 years:	0%
Three or more years:	100%

Schedule SB, Part V - Summary of Plan Provisions

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

DEATH BENEFIT:

Eligibility: Employee dies during active employment or a terminated Participant dies prior to commencement of his retirement benefit.

Commencement: Participant's Normal or Early Retirement Date.

Benefit Amount: Qualified preretirement 50% survivor annuity for married participants with a five year guarantee. For single participants, a five year guaranteed benefit.

FORM OF PAYMENT:

Straight life annuity with five year guarantee for single participants, joint & 50% survivor annuity with five year guarantee for married participants. Optional forms include: 5 or 10 year certain and continuous annuity, and a joint and 25%, 50%, 75%, or 100% survivor annuity with five year guarantee.

**ACTUARIAL
EQUIVALENCE:**

1983 Group Annuity Mortality Table, Unisex, using 5.00% interest

Schedule SB, Line 32 - Schedule of Amortization Bases

Plan Name:

The Retirement Plan for Salaried Employees of Advanced Composite Materials

Plan Sponsor: Haydale Ceramic Technologies, LLC

EIN: 58-1705799 PN: 002 PYE: December 31, 2023

SHORTFALL AMORTIZATION BASES

<u>Date</u> <u>Estab</u>	<u>Reason</u>	<u>Initial</u> <u>Amount</u>	<u>Init</u> <u>Yrs</u>	<u>Curr</u> <u>Yrs</u>	<u>O/Stand</u> <u>Balance</u>	<u>Annual</u> <u>Payment</u>
01/01/19	ARPA Fresh Start Funding Shortfall	792,153	15.0	11.0	640,304	73,241
01/01/20	Actuarial (Gain)/Loss	(424,096)	15.0	12.0	(357,527)	(38,332)
01/01/21	Actuarial (Gain)/Loss	42,754	15.0	13.0	39,378	3,984
01/01/22	Actuarial (Gain)/Loss	(200,142)	15.0	14.0	(192,612)	(18,495)
01/01/23	Actuarial (Gain)/Loss	709,200	15.0	15.0	<u>709,200</u>	<u>64,949</u>
	Total				<u><u>838,743</u></u>	<u><u>85,347</u></u>