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
[ ] special extension (enter description)

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
NEW JOHNSONVILLE ELECTROLYTIC MANGANESE PLANT PENSION PLAN OF VIBRANTZ SPECIALTY PRODUCTS LLC

1b Three-digit plan number (PN) ▶ 006

1c Effective date of plan 01/01/1984

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)
VIBRANTZ SPECIALTY PRODUCTS LLC

15311 VANTAGE PARKWAY W., SUITE 350
HOUSTON, TX 77032

15311 VANTAGE PARKWAY W., SUITE 350
HOUSTON, TX 77032

2b Employer Identification Number (EIN) 52-1272156

2c Sponsor's telephone number 713-955-5398

2d Business code (see instructions) 325300

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
c Plan Name

4b EIN

4d PN

5a Total number of participants at the beginning of the plan year	**5a**	89
b Total number of participants at the end of the plan year	**5b**	89
c(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item)	**5c(1)**	
c(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	**5c(2)**	
d(1) Total number of active participants at the beginning of the plan year	**5d(1)**	27
d(2) Total number of active participants at the end of the plan year	**5d(2)**	24
e Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	**5e**	

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.

SIGN HERE	Filed with authorized/valid electronic signature.	10/14/2024	MITCH MCCRAW
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE	Filed with authorized/valid electronic signature.	10/14/2024	MITCH MCCRAW
	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.) [X] 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.) [X] 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)? [X] Yes [ ] No [ ] Not determined

If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 527084. (See instructions.)

Part III Financial Information

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	6934416	7651944
b Total plan liabilities	7b		
c Net plan assets (subtract line 7b from line 7a)	7c	6934416	7651944
8 Income, Expenses, and Transfers for this Plan Year		**(a) Amount**	**(b) Total**
a Contributions received or receivable from: (1) Employers	8a(1)		
(2) Participants	8a(2)		
(3) Others (including rollovers)	8a(3)		
b Other income (loss)	8b	1172782	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		1172782
d Benefits paid (including direct rollovers and insurance premiums to provide benefits)	8d	351504	
e Certain deemed and/or corrective distributions (see instructions)	8e		
f Administrative service providers (salaries, fees, commissions)	8f	103750	
g Other expenses	8g		
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		455254
i Net income (loss) (subtract line 8h from line 8c)	8i		717528
j Transfers to (from) the plan (see instructions)	8j		

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:
1B 1I 3H

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		500000
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			
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. [X] Yes [ ] No

a Enter the unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 | **11a** | 0

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? (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. [ ] Yes [ ] No

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 [X] 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 [X] 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 [X] 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 ___/___/_____ (MM/DD/YYYY) and the Opinion Letter serial number_____.

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

This Form is Open to Public Inspection

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
NEW JOHNSONVILLE ELECTROLYTIC MANGANESE PLANT PENSION PLAN OF VIBRANTZ SPECIALTY PRODUCTS LLC

B Three-digit plan number (PN) ▶ 006

C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF
VIBRANTZ SPECIALTY PRODUCTS LLC

D Employer Identification Number (EIN)
52-1272156

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

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

Part I Basic Information

1 Enter the valuation date: Month 01 Day 01 Year 2023

2 Assets:

a Market value	**2a**	6934416
b Actuarial value	**2b**	7627857

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	58	3989457	3989457
b For terminated vested participants	7	198977	198977
c For active participants	24	2287935	2352081
d Total	89	6476369	6540515

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**	5.22 %
6 Target normal cost		
a Present value of current plan year accruals	**6a**	55893
b Expected plan-related expenses	**6b**	91411
c Target normal cost	**6c**	147304

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

09/17/2024
Date

JIM TROTIER
Type or print name of actuary

23-08425
Most recent enrollment number

MERCER (US) LLC
Firm name

216-830-8027
Telephone number (including area code)

200 PUBLIC SQUARE, STE 3760
CLEVELAND, OH 44114
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)		
10	Interest on line 9 using prior year's actual return of -13.49 %		
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 5.39 %		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		
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	116.62 %
15	Adjusted funding target attainment percentage	15	116.62 %
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	116.90 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV Contributions and Liquidity Shortfalls

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

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

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

20 Quarterly contributions and liquidity shortfalls:

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

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

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

Liquidity shortfall as of end of quarter of this plan year

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

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

21 Discount rate:

a Segment rates:

1st segment:	2nd segment:	3rd segment:	
4.75 %	5.00 %	5.74 %	☐ N/A, full yield curve used

b Applicable month (enter code)	**21b**	4
22 Weighted average retirement age	**22**	62

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**	
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	**29**	
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**	147304
b Excess assets, if applicable, but not greater than line 31a	**31b**	147304

32 Amortization installments:

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

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

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

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

a Total (excess, if any, of line 37 over line 36)	**38a**	0
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	**38b**	0
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	**39**	0
40 Unpaid minimum required contributions for all years	**40**	0

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

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

Schedule SB, Part V — Summary of Plan Provisions

Summary of major plan provisions

Effective date and plan year	Restated plan: January 1, 2017 Plan year: The twelve-month period ending December 31
Status of the plan	Closed to new entrants as of January 1, 2005
Significant events that occurred during the year	None
Definitions	
• Coverage and Participation	Each hourly rated employee at the New Johnsonville plant actively employed within the Bargaining Unit participates immediately upon the attainment of age 21. An employee who was not a participant on December 31, 2005 shall not be eligible to participant.
• Continuous service	One year is credited for each computation period during which the employee completes 1,000 hours. Such services shall be credited for eligibility and vesting purposes.
• Benefit service	For purposes of accruing benefits, all continuous service shall be credited, with service during the last fractional year credited at a rate of 1/12th year for each 173 hours of service.
• Accrued benefit	A monthly pension, if paid on a straight-life basis, equal to years of Benefit Service multiplied by the appropriate benefit unit:

Date of Retirement	Benefit Unit	Benefit Service Max
Prior to 7/1/1986	$10.00	30
7/01/1986 through 6/30/1989	12.00	30
7/01/1989 through 6/30/1991	16.00	30
7/01/1991 through 6/30/1992	17.00	30
7/01/1992 through 6/30/1993	18.00	30
7/01/1993 through 6/30/1997	19.00	30
7/01/1997 through 6/30/1998	23.00	33-1/3
7/01/1998 through 6/30/1999	25.00	33-1/3
7/01/1999 through 6/30/2000	26.00	33-1/3
7/01/2000 through 6/30/2001	27.00	33-1/3
7/01/2001 through 6/30/2002	29.00	33-1/3
7/01/2002 through 6/30/2003	30.00	33-1/3
After 7/01/2003	31.00	33-1/3

An employee rehired after January 1, 2006 shall only receive the accured benefit earn prior to January 1, 2006.

Normal retirement	
• Eligibility	The later of age 62 and the fifth anniversary of plan participation.
• Benefit	The accrued normal retirement benefit paid at NRD.

Schedule SB, Part V — Summary of Plan Provisions

Early retirement

- Eligibility: Retirement before NRD and on or after both attaining age 55 with 10 years of Continuous Service.
- Benefit: The accrued normal retirement benefit is payable at age 62 or, alternatively, payable immediately in a reduced amount as follows:

Age	Early Retirement Factor
55	0.55
56	0.60
57	0.65
58	0.71
59	0.77
60	0.84
61	0.92
62	1.00

Deferred vested

- Eligibility: Termination for reasons other than death or retirement after completing 5 years of Credited Service
- Benefit: The accrued normal retirement benefit is payable at age 62 or, if the employee has at least 10 years of Continuous Service, payable as early as age reduce by Plan's early retirement factor (above) prior to age 62.

Disability

- Eligibility: Upon total and permanent disability after 10 years of Continuous Service
- Benefit: The accrued normal retirement benefit is payable immediately.

Pre-retirement death

- Eligibility: The surviving spouse is eligible upon the death of an employee after five year of Continuous Service
- Benefit prior to early retirement: If death occurs prior to eligibility for early retirement, the surviving spouse will receive the benefit that would have been paid had the employee terminated on the day of his death, survived to the earliest age for retirement, retired under the 50% Joint & Survivor option, and then died.
- Benefit after retirement: If the employee dies while eligible for early retirement, the surviving spouse will receive 50% of the benefit that would have been paid. If the employee had retired on the day prior to his death and elected an 50% Joint & Survivor benefit.

Form of benefits

- Automatic form for unmarried participants: Single life annuity
- Automatic form for married participants: Joint and 50% survivor annuity

Schedule SB, Part V — Summary of Plan Provisions

• Optional forms	An employee may elect to receive his benefit on a straight life basis or on an actuarially equivalent 50%, 75% or 100% Joint and Survivor basis. If the present value of the participant's retirement benefit does not exceed $15,000, it may be paid in a lump sum. Actuarial equivalence is based on the RP 2000 Blended Table and 6.0% interest except for lump sums which are based on 417(e) applicable interest rates and mortality
Miscellaneous	
• Maximum benefits	Annual benefits may not exceed the limits in IRC Section 415. This limit is indexed annually. For 2023, the limit is $265,000.

Benefits included or excluded

Unless noted below, all benefits provided by the plan, as amended and restated effective January 1, 2017 are included in this valuation.

- **Most recent plan amendments included:** Amendments adopted by the valuation date or effective by the end of the plan year are included in this valuation.
- **Plan amendments excluded:** None
- **Late retirement increases:**
  - *Active participants:* The plan provides benefit suspension notices to participants who work beyond normal retirement; therefore, late retirement actuarial increases only apply to participants who defer retirement beyond age 70½. This valuation includes increases for current participants over age 70.
  - *Deferred vested participants:* Current deferred vested participants over normal retirement age are valued including the late retirement actuarial increase.
- **Internal Revenue Code limitations:** The limitations of Internal Revenue Code Sections 415(b) and 401(a)(17) have been incorporated into our calculations.
- **IRC Section 416 rules for top-heavy plans:** We did not test whether this plan is top-heavy (when the present value of benefits for key employees equals or exceeds 60 percent of the present value for all participants). However, we expect that the plan is not top-heavy due to the large number of rank-and-file participants; therefore, the funding target and target normal cost do not reflect any liability for top-heavy benefit accruals.

Plan Provisions Specific to Funding

Additional Benefits Included or Excluded

- **IRC Section 436 benefit restrictions:**
  - *Unpredictable contingent event benefits:* This valuation excludes restricted contingent event benefits that occurred before the valuation date but includes contingent event benefits which are expected to occur on or after the valuation date regardless of anticipated funding-based limitations.
  - *Plan amendments:* See above.

Schedule SB, Part V — Summary of Plan Provisions

- *Prohibited payments:* Limitations on prohibited benefits (if any) are reflected for annuity starting dates before the valuation date but are ignored for annuity starting dates on or after the valuation date.
- *Benefit accruals:* The plan's funding target does not reflect any limitation on benefit accruals. The target normal cost does not reflect any limitation on benefit accruals.

- **Unpredictable contingent event benefits:** This valuation does not value the plan's unpredictable contingent event benefits because the likelihood of an event is de minimis.

Plan Provision Changes Since Prior Valuation

Maximum benefit amounts under IRS rules were updated from 2022 to 2023.

Schedule SB, line 26a — Schedule of Active Participant Data

Distribution of active participants as of January 1, 2023

Attained age	Years of credited service										
	Under 1	1–4	5–9	10–14	15–19	20–24	25–29	30–34	35–39	40 & up	Total
Under 25											
25–29											
30–34											
35–39											
40–44					1						1
45–49					1	2					3
50–54					2	3		3			8
55–59					1	2	2	2			7
60–64								1	2		3
65–69									1	1	2
70 & up											
Total					5	7	2	6	3	1	24

In each cell, the number is the count of active participants for each age/service combination.

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

Actuarial assumptions for January 1, 2023 funding valuation

Discount rate sponsor elections			
•	Segment rates or full yield curve	Segment	
•	Look-back months	4	
		Stabilized	**Non-Stabilized**
•	First 5 years	4.75%	1.41%
•	Next 15 years	5.00%	3.09%
•	Over 20 years	5.74%	3.58%
Mortality sponsor elections			
•	Healthy participants	Section 430(h)(3) prescribed separate static annuitant and non-annuitant mortality tables. These tables are based on the RP-2014 mortality tables projected with improvements beyond 2006 removed with static mortality improvement based on IRS methodology and projection scale MP-2021.	
•	Pre-1995 disabilities	N/A	
•	Post-1994 disabilities	Same as healthy	
Other Economic Assumptions			
•	Salary increases	Not Applicable.	
•	Flat-dollar benefit increases	Not Applicable.	
•	Social Security wage base	Not Applicable.	
•	Inflation	Not Applicable.	
•	Expected investment return	6.00% per year for 2021 and 2022, 6.50% per year for 2023	
•	Expenses	$91,411 added to current year normal cost.	

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

Demographic assumptions

- Withdrawal

Rates varying by age and gender

	Percentage	
Attained age	**Male**	**Female**
30	0.034	0.049
35	0.024	0.034
40	0.013	0.024
45	0.007	0.013
50	0.000	0.007
55	0.000	0.000
60 & over	0.000	0.000

- Disability incidence

The rates at the following ages illustrate the incidence of disability assumed (per 1000 lives):

	Percentage	
Attained age	**Male**	**Female**
25	0.93	0.96
35	1.99	2.52
45	5.05	5.22
55	15.02	14.90

- Retirement age

The following rates have been utilized as the assumed incidence of retirement:

Rates varying by age and gender, average age 62.

Attained age	**Rate**
55	2%
56	2%
57	3%
58	5%
59	5%
60	10%
61	10%
62	45%
63	45%
64	45%
65 and above	100%

- Benefit commencement age for
  - Future & Current vested deferred: The later of age 62 or termination of employment.

• Spouse assumptions	**Male participants**	**Female participants**
– Percentage married	85%	85%
– Spouse age difference	3 years younger	3 years older

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

•	Form of payment	**Single Life Annuity**	**75% J&S**
	— Active retirements	50%	50%
	— Future vested deferred	50%	50%
	— Future disabilities	50%	50%
	— Future deaths	50%	50%
	— Current vested deferred	50%	50%
•	Unpredictable contingent event assumption	None	

Rationale for Economic Assumptions

- **Discount Rate –** These are the IRS prescribed rates. The plan sponsor elected this methodology from alternative IRS prescribed options.
- **Mortality sponsor elections –** These are the current IRS prescribed table and mortality improvement projection scale. The plan sponsor elected this methodology from alternative IRS prescribed options.
- **Expected investment return –** This is based on a 65% historical and 35% forward-looking blend of the capital market assumptions published in Mercer Investment Consulting's Capital Market Outlook dated January 2023 for the plan's target asset mix, net of an adjustment of 11 basis points for investment expenses assumed to be paid from plan assets, rounded to the nearest 25 basis points.
- **Expenses –** Administrative expenses are assumed to equal non-PBGC administrative expenses from the prior year plus an estimate of the PBGC premiums for the current year that are paid from the plan assets. Adjustments are made for any known significant changes.

Rationale for Demographic Assumptions

- **Termination rates** – Termination rates were based on a published table for pension participants believed to have similar characteristics to the plan population. Gains and losses caused by termination patterns different than assumed are observed and monitored. Assumed termination rates differ by age and gender because of observed and expected differences in termination rates by gender.
- **Disability incidence** – Disability rates were based on a published table for pension participants believe to have reasonably similar characteristics participating in pension plans with similar disability provisions. Gains and losses caused by disability patterns different than assumed are observed and monitored.
- **Retirement rates** – Retirement rates are based on plan sponsor expectations for the future with periodic monitoring of observed gains and losses caused by retirement patterns different than assumed.
- **Benefit commencement age** – Deferred vested participants are assumed to begin benefits at age 62 (or current age if later) because the plan's experience is not considered to be credible, but it has been observed and it is expected that many participants will retire and begin benefits when Social Security benefits are first available.

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

Actuarial methods for funding

Asset methods

The asset valuation method is an average of the adjusted market value for each year during the last two years preceding the valuation date. The adjusted market value is the market value at each determination date adjusted to the valuation date based on actual cash flows and expected interest at the lesser of the expected rate of return and the third segment rate. This amount is adjusted to be no greater than 110 percent and no less than 90 percent of the fair market value, as defined in IRC Section 430.

A characteristic of this asset method is that, over time, it is slightly more likely to produce an actuarial value of assets that is less than the market value of assets than an actuarial value that is greater than the market value.

Participant methods

Participants or former participants are included or excluded from the valuation as described below:

- **Participants included:** The plan sponsor provides us with data for only those employees who have completed the plan's eligibility requirements are included in the valuation of liabilities.
- **Participants excluded:** No actuarial liability is included for nonvested participants who terminated prior to the valuation date. For this purpose, participants with a break in service on the valuation date are treated as terminated participants.
- **Insurance contracts**: None.

Minimum funding methods

The funding target for minimum funding calculations is computed using the traditional unit credit method of funding. The objective under this method is to fund each participant's benefits under the plan as they accrue. Thus, the total pension to which each participant is expected to become entitled at retirement is broken down into units, each associated with a year of past or future credited service.

A detailed description of the calculation follows:

- The plan's valuation date is the beginning of the plan year.
- An individual's **funding target** is the present value of future benefits based on credited service and average pay as of the beginning of the plan year, and an individual's **target normal cost** is the present value of the benefit expected to accrue in the plan year. If multiple decrements are used, the funding target and the target normal cost for an individual are the sum of the component funding targets and target normal costs associated with the various anticipated separation dates.
- This plan provides benefits that are not a function of a participant's accrued benefit or years of service. This benefit is allocated to funding target based on the ratio of the participant's service at

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

the beginning of the plan year to their service at each decrement age and is allocated to target normal cost based on the proportionate benefit attributable to the increase in the participant's service and compensation during the plan year.

- This plan provides disability/death benefits that are only partially based on a participant's accrued benefit or years of service. This benefit is allocated to funding target based on the accrued benefit on the valuation date plus a portion of the excess of the benefit over the accrued benefit multiplied by the ratio of the participant's service at the beginning of the plan year to their service at each decrement age. This benefit is allocated to target normal cost based on the proportionate benefit attributable to the increase in the participant's service and compensation during the plan year.

- The plan's **target normal cost** is the sum of the individual target normal costs, and the plan's **funding target** is the sum of the individual funding targets for all participants under the plan.

Schedule SB, line 25 — Change in Method

This was the first year that Mercer has performed the actuarial valuation for this plan. Last year's valuation was done by Willis Towers Watson. This change qualifies for automatic IRS approval. No other method changes have occurred since the January 1, 2022 valuation.

Schedule SB, line 24 — Change in Actuarial Assumptions

- The expected administrative expenses added to the normal cost increased from $64,761 to $91,411.
- The expected investment return was changed from 6.00% to 6.50%.

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

This Form is Open to Public Inspection

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
New Johnsonville Electrolytic Manganese Plant Pension Plan of Vibrantz Specialty Products LLC

B Three-digit plan number (PN) ▶ 006

C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF
Vibrantz Specialty Products LLC

D Employer Identification Number (EIN)
52-1272156

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

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

Part I Basic Information

1	Enter the valuation date: Month 01 Day 01 Year 2023			
2	Assets:			
	a Market value		2a	6,934,416
	b Actuarial value		2b	7,627,857
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	58	3,989,457	3,989,457
	b For terminated vested participants	7	198,977	198,977
	c For active participants	24	2,287,935	2,352,081
	d Total	89	6,476,369	6,540,515
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	5.22%
6	Target normal cost			
	a Present value of current plan year accruals		6a	55,893
	b Expected plan-related expenses		6b	91,411
	c Target normal cost		6c	147,304

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

JFT

Signature of actuary

09/17/2024

Date

Jim Trotier

Type or print name of actuary

2308425

Most recent enrollment number

Mercer (US) LLC

Firm name

216-830-8027

Telephone number (including area code)

200 Public Square
Suite 3760
Cleveland OH 44114

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 -13.49%	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 5.39%		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	116.62 %
15	Adjusted funding target attainment percentage	15	116.62 %
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	116.90 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls

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

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

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	0

20 Quarterly contributions and liquidity shortfalls:

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

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

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

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

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

21 Discount rate:

a Segment rates:

1st segment:	2nd segment:	3rd segment:	☐ N/A, full yield curve used
4.75 %	5.00 %	5.74 %	

b Applicable month (enter code)	**21b**	4
22 Weighted average retirement age	**22**	62

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

Part VI Miscellaneous Items

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

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

26 Demographic and benefit information

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

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

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

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

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

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):		
a Target normal cost (line 6c)	**31a**	147,304
b Excess assets, if applicable, but not greater than line 31a	**31b**	147,304

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

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

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

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

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

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

Schedule SB, line 22 — Description of Weighted Average Retirement Age

Each employee is assumed to retire in accordance with the table of retirement rates. The proportion of employees expected to retire at each potential retirement age is shown below. The average retirement age is 62.

(A) Retirement age	(B) Retirement percent	(C) Lx	(D) Number of employees expected to retire (B) x (C)	(E) (A) x (D)
55	2.0%	10,000	200	11,000
56	2.0%	9,800	196	10,976
57	3.0%	9,604	288	16,416
58	5.0%	9,316	466	27,028
59	5.0%	8,850	443	26,137
60	10.0%	8,407	841	50,460
61	10.0%	7,566	757	46,177
62	45.0%	6,809	3,064	189,968
63	45.0%	3,745	1,685	106,155
64	45.0%	2,060	927	59,328
65	100.0%	1,133	1,133	73,645
Total			10,000.00	617,290
Average				61.73

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
[ ] special extension (enter description)

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
NEW JOHNSONVILLE ELECTROLYTIC MANGANESE PLANT PENSION PLAN OF VIBRANTZ SPECIALTY PRODUCTS LLC

1b Three-digit plan number (PN) ▶ 006

1c Effective date of plan 01/01/1984

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 instr.)
VIBRANTZ SPECIALTY PRODUCTS LLC
15311 VANTAGE PARKWAY W., SUITE 350

HOUSTON TX 77032

2b Employer Identification Number (EIN) 52-1272156

2c Sponsor's telephone number 713-955-5398

2d Business code (see instructions) 325300

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
c Plan Name

4b EIN

4d PN

5a Total number of participants at the beginning of the plan year	5a	89
b Total number of participants at the end of the plan year	5b	89
c (1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item)	5c(1)	
c (2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	5c(2)	
d (1) Total number of active participants at the beginning of the plan year	5d(1)	27
d (2) Total number of active participants at the end of the plan year	5d(2)	24
e Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	5e	

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.

SIGN HERE	Signature of plan administrator	10/14/24 Date	MITCH MCCRAW Enter name of individual signing as plan administrator
SIGN HERE	Signature of employer/plan sponsor	10/14/24 Date	MITCH MCCRAW 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 527084. (See instructions.)

Part III Financial Information

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	6,934,416	7,651,944
b Total plan liabilities	7b		
c Net plan assets (subtract line 7b from line 7a)	7c	6,934,416	7,651,944
8 Income, Expenses, and Transfers for this Plan Year		**(a) Amount**	**(b) Total**
a Contributions received or receivable from: (1) Employers	8a(1)		
(2) Participants	8a(2)		
(3) Others (including rollovers)	8a(3)		
b Other income (loss) STATEMENT 1	8b	1,172,782	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		1,172,782
d Benefits paid (including direct rollovers and insurance premiums to provide benefits) STATEMENT 2	8d	351,504	
e Certain deemed and/or corrective distributions (see instructions)	8e		
f Administrative service providers (salaries, fees, commissions) STMT 3	8f	103,750	
g Other expenses	8g		
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		455,254
i Net income (loss) (subtract line 8h from line 8c)	8i		717,528
j Transfers to (from) the plan (see instructions)	8j		

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:
1B 1I 3H

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		500,000
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			
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 | 0

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

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 (MM/DD/YYYY) and the Opinion Letter serial number

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

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▶ 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.

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New Johnsonville Electrolytic Manganese Plant Pension Plan of Vibrantz Specialty Products LLC

B Three-digit plan number (PN) ▶ 006

C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF
Vibrantz Specialty Products LLC

D Employer Identification Number (EIN)
52-1272156

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

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

Part I Basic Information

1	Enter the valuation date: Month 01 Day 01 Year 2023			
2	Assets:			
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	b Actuarial value		2b	7,627,857
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	b For terminated vested participants	7	198,977	198,977
	c For active participants	24	2,287,935	2,352,081
	d Total	89	6,476,369	6,540,515
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	5.22%
6	Target normal cost			
	a Present value of current plan year accruals		6a	55,893
	b Expected plan-related expenses		6b	91,411
	c Target normal cost		6c	147,304

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

JFT

Signature of actuary

09/17/2024

Date

Jim Trotier

Type or print name of actuary

2308425

Most recent enrollment number

Mercer (US) LLC

Firm name

216-830-8027

Telephone number (including area code)

200 Public Square
Suite 3760
Cleveland OH 44114

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 -13.49%	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 5.39%		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	116.62 %
15	Adjusted funding target attainment percentage	15	116.62 %
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	116.90 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.	17	%

Part IV Contributions and Liquidity Shortfalls

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

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

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	0

20 Quarterly contributions and liquidity shortfalls:

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

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

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

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

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

21 Discount rate:

a Segment rates:

1st segment:	2nd segment:	3rd segment:	☐ N/A, full yield curve used
4.75 %	5.00 %	5.74 %	

b Applicable month (enter code)	**21b**	4
22 Weighted average retirement age	**22**	62

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

Part VI Miscellaneous Items

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

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

26 Demographic and benefit information

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

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

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

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

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

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):		
a Target normal cost (line 6c)	**31a**	147,304
b Excess assets, if applicable, but not greater than line 31a	**31b**	147,304

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

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

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

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

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

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