

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2023 This Form is Open to Public Inspection
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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: ☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must provide participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) _____ ☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C	If the plan is a collectively-bargained plan, check here.▶ ☒
D	Check box if filing under: ☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)
E	If this is a retroactively adopted plan permitted by SECURE Act section 201, check here.▶ ☐

Part II	Basic Plan Information—enter all requested information
1a	Name of plan HOUGHTON INTERNATIONAL INC. PENSION PLAN
1b	Three-digit plan number (PN) ▶ 001
1c	Effective date of plan 01/01/1968
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) HOUGHTON INTERNATIONAL INC. P.O. BOX 930 VALLEY FORGE, PA 19482-0930
2b	Employer Identification Number (EIN) 23-0712270
2c	Plan Sponsor's telephone number 610-666-4000
2d	Business code (see instructions) 325900

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

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

SIGN HERE	Filed with authorized/valid electronic signature.	09/12/2024	COURTNEY SIA
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE	Filed with authorized/valid electronic signature.	09/12/2024	COURTNEY SIA
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

3a Plan administrator's name and address ☒ 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
5 Total number of participants at the beginning of the plan year	5 794
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits f Total. Add lines 6d and 6e g(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item) g(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	6a(1) 76 6a(2) 76 6b 399 6c 239 6d 714 6e 68 6f 782 6g(1) 0 6g(2) 0 6h 0
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	7

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

1A

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

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

a Pension Schedules

- (1) ☒ **R** (Retirement Plan Information)
- (2) ☐ **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3) ☒ **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary
- (4) ☐ **DCG** (Individual Plan Information) – Number Attached 0
- (5) ☐ **MEP** (Multiple-Employer Retirement Plan Information)

b General Schedules

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

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

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

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

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

11c Enter the Receipt Confirmation Code for the 2023 Form M-1 annual report. If the plan was not required to file the 2023 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE A (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Insurance Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500. ▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).	OMB No. 1210-0110 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		
A Name of plan HOUGHTON INTERNATIONAL INC. PENSION PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 HOUGHTON INTERNATIONAL INC.	D Employer Identification Number (EIN) 23-0712270	

Part I	Information Concerning Insurance Contract Coverage, Fees, and Commissions	Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.
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1 Coverage Information:

(a) Name of insurance carrier
PRINCIPAL LIFE INSURANCE COMPANY

(b) EIN	(c) NAIC code	(d) Contract or identification number	(e) Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	(g) To
42-0127290	61271	455739	784	01/01/2023	12/31/2023

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.

(a) Total amount of commissions paid	(b) Total amount of fees paid
0	0

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4 Current value of plan's interest under this contract in the general account at year end	4	0
5 Current value of plan's interest under this contract in separate accounts at year end.....	5	60979239

6 Contracts With Allocated Funds:**a** State the basis of premium rates ▶**b** Premiums paid to carrier**6b****c** Premiums due but unpaid at the end of the year.....**6c****d** If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount.**6d**

Specify nature of costs ▶

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity(3) ☐ other (specify) ▶**f** If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ☐**7** Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)**a** Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee(3) ☐ guaranteed investment (4) ☐ other ▶**b** Balance at the end of the previous year**7b****c** Additions: (1) Contributions deposited during the year**7c(1)**

(2) Dividends and credits

7c(2)

(3) Interest credited during the year

7c(3)

(4) Transferred from separate account.....

7c(4)

(5) Other (specify below)

7c(5)

▶

(6) Total additions.....

7c(6)**d** Total of balance and additions (add lines **7b** and **7c(6)**)**7d****e** Deductions:

(1) Disbursed from fund to pay benefits or purchase annuities during year

7e(1)

(2) Administration charge made by carrier

7e(2)

(3) Transferred to separate account.....

7e(3)

(4) Other (specify below)

7e(4)

▶

(5) Total deductions.....

7e(5)**f** Balance at the end of the current year (subtract line **7e(5)** from line **7d**)**7f**

0

Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

- a** ☐ Health (other than dental or vision)
b ☐ Dental
c ☐ Vision
d ☐ Life insurance
e ☐ Temporary disability (accident and sickness)
f ☐ Long-term disability
g ☐ Supplemental unemployment
h ☐ Prescription drug
i ☐ Stop loss (large deductible)
j ☐ HMO contract
k ☐ PPO contract
l ☐ Indemnity contract
m ☐ Other (specify) ▶

9 Experience-rated contracts:

a Premiums: (1) Amount received	9a(1)		
(2) Increase (decrease) in amount due but unpaid.....	9a(2)		
(3) Increase (decrease) in unearned premium reserve	9a(3)		
(4) Earned ((1) + (2) - (3)).....		9a(4)	
b Benefit charges (1) Claims paid.....	9b(1)		
(2) Increase (decrease) in claim reserves	9b(2)		
(3) Incurred claims (add (1) and (2)).....		9b(3)	
(4) Claims charged		9b(4)	
c Remainder of premium: (1) Retention charges (on an accrual basis) --			
(A) Commissions	9c(1)(A)		
(B) Administrative service or other fees	9c(1)(B)		
(C) Other specific acquisition costs	9c(1)(C)		
(D) Other expenses	9c(1)(D)		
(E) Taxes	9c(1)(E)		
(F) Charges for risks or other contingencies.....	9c(1)(F)		
(G) Other retention charges	9c(1)(G)		
(H) Total retention		9c(1)(H)	
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.).....		9c(2)	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement		9d(1)	
(2) Claim reserves		9d(2)	
(3) Other reserves.....		9d(3)	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line 9c(2).)		9e	

10 Nonexperience-rated contracts:

a Total premiums or subscription charges paid to carrier	10a	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount	10b	

Specify nature of costs.

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A?..... ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

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
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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 HOUGHTON INTERNATIONAL INC. PENSION PLAN	B Three-digit plan number (PN) 001
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF HOUGHTON INTERNATIONAL INC.	D Employer Identification Number (EIN) 23-0712270
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I	Basic Information			
1	Enter the valuation date: Month 01 Day 01 Year 2023			
2	Assets:			
a	Market value	2a	61053135	
b	Actuarial value	2b	67158448	
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	445	44886729	44886729
b	For terminated vested participants	296	16910494	16910494
c	For active participants	85	6132205	6190746
d	Total	826	67929428	67987969
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	5.18 %	
6	Target normal cost			
a	Present value of current plan year accruals	6a	34080	
b	Expected plan-related expenses	6b	646000	
c	Target normal cost	6c	680080	

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 CHRISTOPHER L. META Type or print name of actuary PRINCIPAL FINANCIAL GROUP Firm name PO BOX 9394 DES MOINES, IA 50306-9394 Address of the firm	08/27/2024 Date 23-07107 Most recent enrollment number 412-394-6334 Telephone number (including area code)
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Part II		Beginning of Year Carryover and Prefunding Balances	
		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	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>-19.03</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)		1376055
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>5.35</u> %		73619
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		1449674
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	98.77 %
15	Adjusted funding target attainment percentage	15	98.77 %
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	110.30 %
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	
04/12/2024	189012	0	
07/11/2024	189012	0	
08/22/2024	1634920	0	
		Totals ►	18(b) 2012944
		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 1857211
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
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21 Discount rate:			
a Segment rates:	1st segment: 4.75 %	2nd segment: 5.00 %	3rd segment: 5.74 %
			☐ N/A, full yield curve used
b Applicable month (enter code).....			21b 4
22 Weighted average retirement age			22 65
23 Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute			

Part VI	Miscellaneous Items
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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
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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
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31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6c).....		31a	680080
b Excess assets, if applicable, but not greater than line 31a		31b	0
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment	829521	75968	
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	756048
	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	756048
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....		37	1857211
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)		38a	1101163
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)
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41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. ☐ 2019 ☐ 2020 ☐ 2021

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

A Name of plan HOUGHTON INTERNATIONAL INC. PENSION PLAN	B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 HOUGHTON INTERNATIONAL INC.	D Employer Identification Number (EIN) 23-0712270

Part I

Service Provider Information (see instructions)

You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1

Information on Persons Receiving Only Eligible Indirect Compensation

- a

Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions).....

X

Yes

No
- b

If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b)	Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation
PRINCIPAL LIFE INSURANCE COMPANY	
42-0127290	

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

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

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

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

PRINCIPAL LIFE INSURANCE COMPANY

42-0127290

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
13 50 64	CONTRACT ADMINISTRATOR	30316	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

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

PRINCIPAL GLOBAL INVESTORS LLC

42-1479618

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
27 50	INVESTMENT ADVISORY	25693	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

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

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

Part I Service Provider Information (continued)

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

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

Part II Service Providers Who Fail or Refuse to Provide Information

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

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

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

SCHEDULE D (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration	DFE/Participating Plan Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1510-0110 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		
A Name of plan HOUGHTON INTERNATIONAL INC. PENSION PLAN	B Three-digit plan number (PN) ▶	001
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 HOUGHTON INTERNATIONAL INC.	D Employer Identification Number (EIN) 23-0712270	

Part I	Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)		
a Name of MTIA, CCT, PSA, or 103-12 IE: PRIN INTL SMALLCAP SEP ACCT-I3			
b Name of sponsor of entity listed in (a): PRINCIPAL LIFE INSURANCE COMPANY			
c EIN-PN 42-0127290-014	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 0	
a Name of MTIA, CCT, PSA, or 103-12 IE: PRIN U.S. PROPERTY SA-I3			
b Name of sponsor of entity listed in (a): PRINCIPAL LIFE INSURANCE COMPANY			
c EIN-PN 42-0127290-027	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 4147090	
a Name of MTIA, CCT, PSA, or 103-12 IE: PRIN DIV INTL SA-I3			
b Name of sponsor of entity listed in (a): PRINCIPAL LIFE INSURANCE COMPANY			
c EIN-PN 42-0127290-015	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 2421752	
a Name of MTIA, CCT, PSA, or 103-12 IE: PRIN LGCAP S&P 500 INDEX SA-I4			
b Name of sponsor of entity listed in (a): PRINCIPAL LIFE INSURANCE COMPANY			
c EIN-PN 42-0127290-016	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 8960660	
a Name of MTIA, CCT, PSA, or 103-12 IE: PRIN SMCAP S&P 600 INDEX SA-I4			
b Name of sponsor of entity listed in (a): PRINCIPAL LIFE INSURANCE COMPANY			
c EIN-PN 42-0127290-028	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 238872	
a Name of MTIA, CCT, PSA, or 103-12 IE: PRIN MIDCAP S&P 400 IDX SA-I4			
b Name of sponsor of entity listed in (a): PRINCIPAL LIFE INSURANCE COMPANY			
c EIN-PN 42-0127290-023	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 563320	
a Name of MTIA, CCT, PSA, or 103-12 IE: PRIN LDI LONG DURATION SA-I3			
b Name of sponsor of entity listed in (a): PRINCIPAL LIFE INSURANCE COMPANY			
c EIN-PN 42-0127290-104	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 15701258	

a Name of MTIA, CCT, PSA, or 103-12 IE: **PRINCIPAL OVERSEAS SA-I2**

b Name of sponsor of entity listed in (a): **PRINCIPAL LIFE INSURANCE COMPANY**

c EIN-PN 42-0127290-116	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 1133512
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a Name of MTIA, CCT, PSA, or 103-12 IE: **PRIN LDI INTRM DUR SEP ACCT-I3**

b Name of sponsor of entity listed in (a): **PRINCIPAL LIFE INSURANCE COMPANY**

c EIN-PN 42-0127290-128	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 27101212
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a Name of MTIA, CCT, PSA, or 103-12 IE: **PRIN ORG EMG MKTS SEP ACCT-I3**

b Name of sponsor of entity listed in (a): **PRINCIPAL LIFE INSURANCE COMPANY**

c EIN-PN 42-0127290-178	d Entity code P	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 711563
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a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

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

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

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

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

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

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

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

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

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

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

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

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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Part II **Information on Participating Plans (to be completed by DFEs, other than DCGs)**

(Complete as many entries as needed to report all participating plans. DCGs must report each participating plan using Schedule DCG.)

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

SCHEDULE H (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		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		
A Name of plan HOUGHTON INTERNATIONAL INC. PENSION PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 HOUGHTON INTERNATIONAL INC.		
		D Employer Identification Number (EIN) 23-0712270

Part I	Asset and Liability Statement
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1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. **Round off amounts to the nearest dollar.** MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.

Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions	1b(1)	1500000	2012944
(2) Participant contributions	1b(2)		
(3) Other	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit)	1c(1)		
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property)	1c(6)		
(7) Loans (other than to participants)	1c(7)		
(8) Participant loans	1c(8)		
(9) Value of interest in common/collective trusts	1c(9)		
(10) Value of interest in pooled separate accounts	1c(10)	59603461	60979239
(11) Value of interest in master trust investment accounts	1c(11)		
(12) Value of interest in 103-12 investment entities	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds)	1c(13)		
(14) Value of funds held in insurance company general account (unallocated contracts)	1c(14)		
(15) Other	1c(15)		

1d Employer-related investments:		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)		
(2) Employer real property	1d(2)		
e Buildings and other property used in plan operation	1e		
f Total assets (add all amounts in lines 1a through 1e)	1f	61103461	62992183
Liabilities			
g Benefit claims payable	1g		
h Operating payables	1h		
i Acquisition indebtedness	1i		
j Other liabilities	1j		
k Total liabilities (add all amounts in lines 1g through 1j)	1k	0	0
Net Assets			
l Net assets (subtract line 1k from line 1f)	1l	61103461	62992183

Part II Income and Expense Statement

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

Income		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	2012944	
(B) Participants	2a(1)(B)		
(C) Others (including rollovers)	2a(1)(C)		
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		2012944
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)		
(B) U.S. Government securities	2b(1)(B)		
(C) Corporate debt instruments	2b(1)(C)		
(D) Loans (other than to participants)	2b(1)(D)		
(E) Participant loans	2b(1)(E)		
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		0
(2) Dividends: (A) Preferred stock	2b(2)(A)		
(B) Common stock	2b(2)(B)		
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)		
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		0
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)		
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts.....	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts.....	2b(7)		5313487
(8) Net investment gain (loss) from master trust investment accounts.....	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities.....	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds)	2b(10)		
c Other income	2c		
d Total income. Add all income amounts in column (b) and enter total	2d		7326431

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	4763850	
(2) To insurance carriers for the provision of benefits.....	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3)	2e(4)		4763850
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses:			
(1) Salaries and allowances	2i(1)		
(2) Contract administrator fees.....	2i(2)	30316	
(3) Recordkeeping fees.....	2i(3)		
(4) IQPA audit fees.....	2i(4)		
(5) Investment advisory and investment management fees	2i(5)	25693	
(6) Bank or trust company trustee/custodial fees	2i(6)		
(7) Actuarial fees	2i(7)		
(8) Legal fees	2i(8)		
(9) Valuation/appraisal fees	2i(9)		
(10) Other trustee fees and expenses	2i(10)		
(11) Other expenses	2i(11)	617850	
(12) Total administrative expenses. Add lines 2i(1) through (11)	2i(12)		673859
j Total expenses. Add all expense amounts in column (b) and enter total	2j		5437709

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		1888722
l Transfers of assets:			
(1) To this plan	2l(1)		
(2) From this plan	2l(2)		

Part III Accountant's Opinion

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

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

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

b Check the appropriate box(es) to indicate whether the IQPA performed an ERISA section 103(a)(3)(C) audit. Check both boxes (1) and (2) if the audit was performed pursuant to both 29 CFR 2520.103-8 and 29 CFR 2520.103-12(d). Check box (3) if pursuant to neither.

(1) ☒ DOL Regulation 2520.103-8 (2) ☐ DOL Regulation 2520.103-12(d) (3) ☐ neither DOL Regulation 2520.103-8 nor DOL Regulation 2520.103-12(d).

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

(1) Name: **GRANT THORNTON**

(2) EIN: **36-6055558**

d The opinion of an independent qualified public accountant is **not attached** as part of Schedule H because:

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

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l. DCGs do not complete lines 4e, 4f, 4k, 4l, and 5, and DCGs generally complete the rest of Part IV collectively for all plans in the DCG, except as otherwise provided (see instructions).

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.)		☒	
b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)		☒	
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)		☒	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)		☒	
e Was this plan covered by a fidelity bond?	☒		3000000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		☒	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?		☒	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?		☒	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	☒		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked and see instructions for format requirements.)	☒		
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?		☒	
l Has the plan failed to provide any benefit when due under the plan?		☒	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)		☒	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			

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

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

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

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

If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 519858.

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation		Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.		OMB No. 1210-0110 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					
A Name of plan HOUGHTON INTERNATIONAL INC. PENSION PLAN				B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 HOUGHTON INTERNATIONAL INC.				D Employer Identification Number (EIN) 23-0712270	
Part I Distributions					
All references to distributions relate only to payments of benefits during the plan year.					
1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions.....				1	0
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): 42-0127290					
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.					
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year				3	3
Part II Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)					
4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ☐ Yes ☐ No ☒ N/A					
If the plan is a defined benefit plan, go to line 8.					
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____					
If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.					
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)				6a	
b Enter the amount contributed by the employer to the plan for this plan year.....				6b	
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount)				6c	
If you completed line 6c, skip lines 8 and 9.					
7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ☐ Yes ☐ No ☐ N/A					
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ☐ Yes ☐ No ☒ N/A					
Part III Amendments					
9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box. ☐ Increase ☐ Decrease ☐ Both ☒ No					
Part IV ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.					
10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?..... ☐ Yes ☐ No					
11 a Does the ESOP hold any preferred stock? ☐ Yes ☐ No					
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.) ☐ Yes ☐ No					
12 Does the ESOP hold any stock that is not readily tradable on an established securities market? ☐ Yes ☐ No					
For Paperwork Reduction Act Notice, see the Instructions for Form 5500.				Schedule R (Form 5500) 2023 v. 230707	

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that (1) contributed more than 5% of total contributions to the plan during the plan year or (2) was one of the top-ten highest contributors (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

14 Enter the number of deferred vested and retired participants (inactive participants), as of the beginning of the plan year, whose contributing employer is no longer making contributions to the plan for:		
a The current plan year. Check the box to indicate the counting method used to determine the number of inactive participants: ☐ last contributing employer ☐ alternative ☐ reasonable approximation (see instructions for required attachment)	14a	
b The plan year immediately preceding the current plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14b	
c The second preceding plan year. ☐ Check the box if the number reported is a change from what was previously reported (see instructions for required attachment)	14c	
15 Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:		
a The corresponding number for the plan year immediately preceding the current plan year	15a	
b The corresponding number for the second preceding plan year	15b	
16 Information with respect to any employers who withdrew from the plan during the preceding plan year:		
a Enter the number of employers who withdrew during the preceding plan year	16a	
b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers	16b	
17 If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment..... ☐		

Part VI	Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans
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18 If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment..... ☐	
19 If the total number of participants is 1,000 or more, complete lines (a) and (b):	
a Enter the percentage of plan assets held as: Public Equity: _____% Private Equity: _____% Investment-Grade Debt and Interest Rate Hedging Assets: _____% High-Yield Debt: _____% Real Assets: _____% Cash or Cash Equivalents: _____% Other: _____%	
b Provide the average duration of the Investment-Grade Debt and Interest Rate Hedging Assets: ☐ 0-5 years ☐ 5-10 years ☐ 10-15 years ☐ 15 years or more	
20 PBGC missed contribution reporting requirements. If this is a multiemployer plan or a single-employer plan that is not covered by PBGC, skip line 20.	
a Is the amount of unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40 greater than zero? ☐ Yes ☒ No	
b If line 20a is "Yes," has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:	
☐ Yes.	
☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date.	
☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date.	
☐ No. Other. Provide explanation. _____	

Part VII	IRS Compliance Questions
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21a 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	
21b 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	
22 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 _____.	

Structured Attachment Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Schedule SB, line 26a Schedule of Active Participant Data	2023 This Form is Open to Public Inspection
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Name of Plan	HOUGHTON INTERNATIONAL INC. PENSION PLAN						
Plan Year Begin Date	01/01/2023	Plan Year End Date	12/31/2023	EIN	23-0712270	PN	001

Attained Age	YEARS OF CREDITED SERVICE					
	Under 1			1 to 4		
	No.	Average		No.	Average	
		Compensation	Cash Balance		Compensation	Cash Balance
Under 25	0	0	0	1	0	0
25 to 29	0	0	0	0	0	0
30 to 34	0	0	0	0	0	0
35 to 39	0	0	0	0	0	0
40 to 44	0	0	0	1	0	0
45 to 49	0	0	0	7	0	0
50 to 54	0	0	0	5	0	0
55 to 59	0	0	0	1	0	0
60 to 64	0	0	0	5	0	0
65 to 69	0	0	0	2	0	0
70 & Up	0	0	0	0	0	0

Attained Age	YEARS OF CREDITED SERVICE					
	5 to 9			10 to 14		
	No.	Average		No.	Average	
		Compensation	Cash Balance		Compensation	Cash Balance
Under 25	0	0	0	0	0	0
25 to 29	0	0	0	0	0	0
30 to 34	2	0	0	0	0	0
35 to 39	0	0	0	0	0	0
40 to 44	1	0	0	1	0	0
45 to 49	4	0	0	1	0	0
50 to 54	2	0	0	3	0	0
55 to 59	4	0	0	9	0	0
60 to 64	4	0	0	5	0	0
65 to 69	3	0	0	1	0	0
70 & Up	0	0	0	0	0	0

Name of Plan	HOUGHTON INTERNATIONAL INC. PENSION PLAN						
Plan Year Begin Date	01/01/2023	Plan Year End Date	12/31/2023	EIN	23-0712270	PN	001

Attained Age	YEARS OF CREDITED SERVICE					
	15 to 19			20 to 24		
	No.	Average		No.	Average	
		Compensation	Cash Balance		Compensation	Cash Balance
Under 25	0	0	0	0	0	0
25 to 29	0	0	0	0	0	0
30 to 34	0	0	0	0	0	0
35 to 39	0	0	0	0	0	0
40 to 44	0	0	0	0	0	0
45 to 49	0	0	0	0	0	0
50 to 54	3	0	0	1	0	0
55 to 59	0	0	0	2	0	0
60 to 64	1	0	0	5	0	0
65 to 69	1	0	0	0	0	0
70 & Up	0	0	0	0	0	0

Attained Age	YEARS OF CREDITED SERVICE					
	25 to 29			30 to 34		
	No.	Average		No.	Average	
		Compensation	Cash Balance		Compensation	Cash Balance
Under 25	0	0	0	0	0	0
25 to 29	0	0	0	0	0	0
30 to 34	0	0	0	0	0	0
35 to 39	0	0	0	0	0	0
40 to 44	0	0	0	0	0	0
45 to 49	0	0	0	0	0	0
50 to 54	0	0	0	0	0	0
55 to 59	1	0	0	1	0	0
60 to 64	4	0	0	1	0	0
65 to 69	1	0	0	2	0	0
70 & Up	0	0	0	0	0	0

Name of Plan	HOUGHTON INTERNATIONAL INC. PENSION PLAN						
Plan Year Begin Date	01/01/2023	Plan Year End Date	12/31/2023	EIN	23-0712270	PN	001

Attained Age	YEARS OF CREDITED SERVICE					
	35 to 39			40 & Up		
	No.	Average		No.	Average	
		Compensation	Cash Balance		Compensation	Cash Balance
Under 25	0	0	0	0	0	0
25 to 29	0	0	0	0	0	0
30 to 34	0	0	0	0	0	0
35 to 39	0	0	0	0	0	0
40 to 44	0	0	0	0	0	0
45 to 49	0	0	0	0	0	0
50 to 54	0	0	0	0	0	0
55 to 59	0	0	0	0	0	0
60 to 64	0	0	0	0	0	0
65 to 69	0	0	0	0	0	0
70 & Up	0	0	0	0	0	0

Houghton International Inc.

Pension Plan

Financial Statements and Supplemental Schedules as of and for the
Years ended December 31, 2023 and 2022

Houghton International Inc. Pension Plan

Table of Contents December 31, 2023 and 2022

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Schedule H, Line 4(j) - Schedule of Reportable Transactions	16
* Other supplemental schedules required by Section 2520.103-10 of the Department of Labor Rules and Regulations for Reporting and Disclosure under ERISA have been omitted because they are not applicable.	

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REPORT OF INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS

Plan Administrator and Participants of the
Houghton International Inc. Pension Plan

Scope and nature of the ERISA Section 103(a)(3)(C) audit

We have performed an audit of the financial statements of the Houghton International Inc. Pension Plan (the "Plan"), an employee benefit plan subject to the Employee Retirement Income Security Act of 1974 (ERISA), as permitted by ERISA Section 103(a)(3)(C) (ERISA Section 103(a)(3)(C) audit). The financial statements comprise the statement of net assets available for benefits as of December 31, 2023, and the related statement of changes in net assets available for benefits for the year ended December 31, 2023, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audit of the Plan's financial statements performed in accordance with ERISA Section 103(a)(3)(C) pursuant to 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. As permitted by ERISA Section 103(a)(3)(C), our audit need not extend to any statements or information related to assets held for investment of the plan (investment information) by a bank or similar institution or insurance carrier that is regulated, supervised, and subject to periodic examination by a state or federal agency, provided that the statements or information regarding assets so held are prepared and certified to by the bank or similar institution or insurance carrier in accordance with 29 CFR 2520.103-5 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA (qualified institution).

Management has obtained a certification from a qualified institution as of December 31, 2023 and for the year then ended, stating that the certified investment information, as described in Note 6 to the financial statements, is complete and accurate.

Opinion

In our opinion, based on our audit and on the procedures performed as described in the Auditor's Responsibilities for the Audit of the Financial Statements section

- The amounts and disclosures in the accompanying financial statements, other than those agreed to or derived from the certified investment information, are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America.
- The information in the accompanying financial statements related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Basis for opinion

We conducted our audit in accordance with auditing standards generally accepted in the United States of America (US GAAS). Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of the Plan and to meet our other ethical responsibilities in accordance with the relevant ethical requirements relating to our audit. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our ERISA Section 103(a)(3)(C) audit opinion.

Responsibilities of management for the financial statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America, and for the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error. Management's election of the ERISA Section 103(a)(3)(C) audit does not affect management's responsibility for the financial statements.

In preparing the financial statements, management is required to evaluate whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for one year after the date the financial statements available to be issued.

Management is also responsible for maintaining a current plan instrument, including all plan amendments, administering the plan, and determining that the plan's transactions that are presented and disclosed in the financial statements are in conformity with the plan's provisions, including maintaining sufficient records with respect to each of the participants, to determine the benefits due or which may become due to such participants.

Auditor's responsibilities for the audit of the financial statements

Except as described in the Scope and Nature of the ERISA Section 103(a)(3)(C) Audit section of our report, our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with US GAAS will always detect a material misstatement when it exists. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control. Misstatements are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment made by a reasonable user based on the financial statements.

In performing an audit in accordance with US GAAS, we:

- Exercise professional judgment and maintain professional skepticism throughout the audit.

- Identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and design and perform audit procedures responsive to those risks. Such procedures include examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Plan's internal control. Accordingly, no such opinion is expressed.
- Evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluate the overall presentation of the financial statements.
- Conclude whether, in our judgment, there are conditions or events, considered in the aggregate, that raise substantial doubt about the Plan's ability to continue as a going concern for a reasonable period of time.

Our audit did not extend to the certified investment information, except for obtaining and reading the certification, comparing the certified investment information with the related information presented and disclosed in the financial statements, and reading the disclosures relating to the certified investment information to assess whether they are in accordance with the presentation and disclosure requirements of accounting principles generally accepted in the United States of America.

Accordingly, the objective of an ERISA Section 103(a)(3)(C) audit is not to express an opinion about whether the financial statements as a whole are presented fairly, in all material respects, in accordance with accounting principles generally accepted in the United States of America.

We are required to communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit, significant audit findings, and certain internal control-related matters that we identified during the audit.

Other matter - supplemental schedules required by ERISA

The supplemental schedule, Schedule H, Line 4(i) - Schedule of assets (held at end of year) as of December 31, 2023 and Schedule H, Line 4(j) - Schedule of Reportable Transactions for the year ended December 31, 2023, are presented for purposes of additional analysis and are not a required part of the financial statements but are supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Such supplementary information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information included in the supplemental schedules, other than that agreed to or derived from the certified investment information, has been subjected to the auditing procedures applied in the audit of the financial statements and certain additional procedures. These additional procedures included comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with US GAAS. For information included in the supplemental schedules that agreed to or is derived from the certified investment information, we compared such information to the related certified investment information.

In forming our opinion on the supplemental schedules, we evaluated whether the supplemental schedules, other than the information agreed to or derived from the certified investment information, including their form and content, are presented in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.

In our opinion

- The form and content of the supplemental schedules, other than the information in the supplemental schedules that agreed to or is derived from the certified investment information, are presented, in all material respects, in conformity with the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA.
- The information in the supplemental schedules related to assets held by and certified to by a qualified institution agrees to, or is derived from, in all material respects, the information prepared and certified by an institution that management determined meets the requirements of ERISA Section 103(a)(3)(C).

Other matter - auditor's report on the 2022 financial statements

The financial statements of the Plan as of and for the year ended December 31, 2022 were audited by other auditors. Those auditors expressed an unmodified opinion on those 2022 financial statements in their report dated September 15, 2023.

Grant Thornton LLP

Philadelphia, Pennsylvania
September 9, 2024

Houghton International Inc. Pension Plan

Statements of Net Assets Available for Benefits December 31, 2023 and 2022

	As of December 31,	
	2023	2022
Assets:		
Investments, at fair value:		
Pooled separate accounts	\$ 60,979,239	\$ 59,603,461
Total investments	60,979,239	59,603,461
Receivables:		
Employer contributions	2,012,944	1,500,000
Total contributions	2,012,944	1,500,000
Total assets	62,992,183	61,103,461
Liabilities:		
Total liabilities	—	—
Net assets available for benefits	\$ 62,992,183	\$ 61,103,461

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

Houghton International Inc. Pension Plan

Statements of Changes in Net Assets Available for Benefits December 31, 2023 and 2022

	For the Year Ended December 31,	
	2023	2022
Additions:		
Net appreciation (depreciation) in fair value of investments	\$ 5,313,485	\$ (14,360,538)
Employer Contributions	2,012,944	1,500,000
Total additions (reductions)	7,326,429	(12,860,538)
Deductions:		
Benefit payments	4,763,850	4,717,975
Administrative expenses	673,857	505,589
Total deductions	5,437,707	5,223,564
Net increase (decrease)	1,888,722	(18,084,102)
Net assets available for benefits		
Beginning of year	61,103,461	79,187,563
End of year	<u>\$ 62,992,183</u>	<u>\$ 61,103,461</u>

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

Houghton International Inc. Pension Plan

Notes to Financial Statements
December 31, 2023 and 2022

NOTE 1 – DESCRIPTION OF PLAN

The following description of the Houghton International Inc. Pension Plan (the “Plan”) provides only general information. Participants should refer to the plan document for a more complete description of the Plan's provisions.

General

In August 2019, Quaker Chemical Company (the “Company”) completed its combination with Houghton International Inc. (“legacy Houghton”) to form Quaker Houghton. The Plan is a noncontributory defined benefit plan, which covered substantially all employees of legacy Houghton in the United States, who were covered by a collective bargaining agreement, and who had completed one year of service, except as amended and described below as approved by the Retirement Committee. In general, the Plan provides for full vesting after five years of service. The Plan is subject to the Employment Retirement Income Security Act of 1974 (“ERISA”), as amended.

Effective December 31, 2007, entry to the Plan was frozen for all employees who were not covered by a collective bargaining agreement and who had less than seven years of credited service.

Effective March 31, 2009, entry to the Plan was frozen for all employees who were not covered by a collective bargaining agreement.

Effective December 31, 2010, the DA Stuart Company Employees' Pension Plan (“DA Plan”), merged into the Plan, including all participants and assets of the DA Plan. Effective March 31, 2009, the Company's Board of Directors elected to freeze the DA Plan. Benefits continued to accrue through March 31, 2009. Each participant whose employment with the DA Stuart Company was involuntarily terminated between November 30, 2008 and June 30, 2009 became 100 percent vested in their benefits.

Effective February 10, 2020, entry to the Plan was frozen for employees hired or rehired after February 10, 2020 at the Company's Carrollton Plant.

The Plan was restated effective January 1, 2022 (the “2022 Restatement”). Prior to that, the Plan had most recently been amended and restated effective January 1, 2015 (the “2015 Restatement”). The 2022 Restatement incorporated all amendments adopted after the 2015 Restatement and updated the Plan to reflect the combination of the Company and legacy Houghton.

Plan Amendments

In Amendment 1 to the 2022 Restatement, effective December 31, 2023, the Plan freezes accruals for participants who are union Houghton employees at the Carrollton Plant.

Administrative Expenses

The Plan's expenses are paid either by the Plan or the Company, as provided by the plan document. Expenses that are paid directly by the Company are excluded from these financial statements. Certain expenses incurred in connection with the general administration of the Plan that are paid by the Plan are recorded as deductions in the accompanying Statements of Changes in Net Assets Available for Benefits. In addition, certain investment related expenses are included in net appreciation (depreciation) in fair value of investments presented in the accompanying Statements of Changes in Net Assets Available for Benefits.

Pension Benefits

For non-union employees, benefits will be provided for normal retirement at age 65, early retirement at age 55 with 10 years of service and disability retirement. A participant retiring at the normal retirement age shall be entitled to receive a monthly benefit, calculated in accordance with the Plan's provisions, as defined. Early retirement benefits are based on the normal retirement calculation adjusted in accordance with the Plan's provisions, as defined.

For union employees, benefits will be provided for normal retirement at age 65, early retirement age at 55 with 15 years of service and disability retirement. A participant retiring at the normal retirement age shall be entitled to receive a monthly benefit based upon years of participation. Certain participants may also be eligible to elect to receive a lump sum distribution upon termination of employment.

For employees that were previously in the DA Plan, the Plan permits early retirement at age 55 with 15 years of service and disability retirement.

Employees may elect to receive a joint and survivor or life annuity or such other form as allowed under the provisions of the Plan. Effective March 28, 2005, upon termination, if the lump-sum value of a participant's retirement benefit does not exceed \$1,000, the benefit payment will be made in the form of a single sum. Between \$1,001 and \$5,000, the benefit payment will be made in the form of a single sum if the participant so elects.

Death and Disability Benefits

Houghton International Inc. Pension Plan

Notes to Financial Statements December 31, 2023 and 2022

If an active participant dies at age 55 or older, a death benefit equal to the value of the participant's accumulated pension benefit is paid to the participant's beneficiary. The Plan provides for disability benefits for certain employees.

NOTE 2 – SUMMARY OF ACCOUNTING POLICIES

Basis of Accounting

The Plan's financial statements are prepared on the accrual basis of accounting.

Use of Estimates

The preparation of financial statements in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP") requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities, and changes therein, and disclosure of contingent assets and liabilities, including the actuarial present value of accumulated plan benefits at the date of the financial statements and changes in the present value of actuarial accumulated plan benefits. Actual results could differ from those estimates.

Payment of Benefits

Benefit payments to participants are recorded when paid.

Investment Valuation and Income Recognition

The Plan's investments are recorded at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The Company's Retirement Committee and plan management determine the Plan's valuation policies utilizing information provided by Delaware Charter Guarantee and Trust Company d/b/a Principal Trust Company, (the "Custodian" or "Principal"). See Note 5 for a discussion of fair value measurements.

Security transactions are recorded on a trade-date basis. Interest income is recorded on an accrual basis. Dividends on registered investment companies and common stocks are recorded on the ex-dividend date; capital gain distributions are recorded in dividend income. Net appreciation (depreciation) in fair value of investments includes the Plan's realized and unrealized gains and losses on investments bought and sold as well as held during the year.

Actuarial Present Value of Accumulated Plan Benefits

Accumulated plan benefits are those future periodic payments, including lump sum distributions, that are attributable under the Plan's provisions to the service employees have rendered. Accumulated plan benefits include benefits expected to be paid to (a) retired or terminated employees or their beneficiaries, (b) beneficiaries of employees who have died and (c) present employees or their beneficiaries. Benefits under the Plan are based on employees' compensation and year of credited service. The accumulated plan benefits for active employees will equal the accumulation, with interest, of the annual benefit accruals as of the benefit information date. Benefits payable under all circumstances - retirement, disability, death and termination of employment are included to the extent that they are deemed attributable to employee service rendered to the valuation date. Benefits to be provided via annuity contracts excluded from the Plan assets are excluded from accumulated plan benefits.

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

The significant actuarial methods and assumptions used in the actuarial valuation as of December 31, 2022⁽¹⁾ are as follows:

Expected rate of return	-	5.50%
Mortality basis	-	Based on Pri-2012 Total dataset base rate mortality table projected generationally using the Principal Mortality Improvement Scale (Principal 2022).
Retirement age	-	The later of attained age 65 or five years after entry date.

⁽¹⁾ The calculation was performed as of January 1, 2023, however; if it was performed as of December 31, 2022, there would be no difference.

Houghton International Inc. Pension Plan

Notes to Financial Statements December 31, 2023 and 2022

The significant actuarial methods and assumptions used in the actuarial valuation as of December 31, 2021⁽¹⁾ were as follows:

Expected rate of return	- 4.50%
Mortality basis	- Based on Pri-2012 Total dataset base rate mortality table projected generationally using MMP-2021.
Retirement age	- The later of attained age 65 or five years after entry date.

⁽¹⁾ The calculation was performed as of January 1, 2022, however; if it was performed as of December 31, 2021, there would be no difference.

The foregoing actuarial methods and assumptions are based on the presumption that the Plan will continue. If the Plan were to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated plan benefits. The computations of the actuarial present value of accumulated plan benefits were made as of January 1, 2023.

NOTE 3 – PLAN TERMINATION

In the event the Plan terminates, the net assets of the Plan will be allocated, as prescribed by ERISA and its related regulations, generally to provide the following benefits, in the order indicated:

- 1) There shall be set aside an amount which will provide retirement income for employees, spouses, or designated beneficiaries who are receiving benefits or who were eligible to receive benefits at least three years prior to termination of the Plan, based on provisions in effect five years prior to the date of termination.
- 2) There shall next be set aside an amount sufficient to discharge all other vested benefits insured by the Pension Benefit Guaranty Corporation ("PBGC").
- 3) There shall next be set aside an amount which will provide all other vested benefits as determined under the Plan which are not insured.
- 4) The balance of the fund, if any, shall be set aside to provide for all non-vested benefits provided under the Plan.

Certain benefits under the Plan are insured by the PBGC if the Plan terminates. Generally, the PBGC guarantees most vested normal age retirement benefits, early retirement benefits, and certain disability and survivor's pensions. However, the PBGC does not guarantee all types of benefits under the Plan, and the amount of benefit protection is subject to certain limitations. Vested benefits under the Plan are guaranteed at the level in effect on the date of the Plan's termination. Should the Plan terminate at some future date, the benefits provided to participants will depend on the sufficiency, at that time, of the Plan's net assets to provide those benefits and may also depend on the financial condition of the Company and the level of benefits guaranteed by the PBGC.

NOTE 4 – RISKS AND UNCERTAINTIES

Investment securities are exposed to various risks such as interest rate, credit and overall market volatility. Market risks include global events which could impact the value of investment securities, such as a pandemic or international conflict. Due to the risks associated with certain investment securities, it is possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect the amounts reported in the Statements of Net Assets Available for Benefits.

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

The following table shows details on investments that represent a concentration of greater than 10% of the Plan's net assets:

Investments	December 31, 2023		December 31, 2022	
	Balance	% of Net assets	Balance	% of Net assets
Principal LDI Intermediate Duration	\$ 27,101,212	43 %	\$ 18,421,012	31 %
Principal LDI Long Duration	15,701,258	25 %	17,106,181	29 %
Principal LargeCap S&P 500 Index	8,960,660	14 %	12,199,588	20 %

Houghton International Inc. Pension Plan

Notes to Financial Statements
December 31, 2023 and 2022

NOTE 5 – FAIR VALUE MEASUREMENTS

The Plan applies the guidance of the Financial Accounting Standards Board regarding fair value measurements, which establishes a common definition for fair value. Specifically, the guidance utilizes a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value into three broad levels. The following is a brief description of those three levels:

- Level 1: Observable inputs such as quoted prices (unadjusted) in active markets for identical assets or liabilities.
- Level 2: Inputs other than quoted prices that are observable for the asset or liability, either directly or indirectly. These include quoted prices for similar assets or liabilities in active markets and quoted prices for identical or similar assets or liabilities in markets that are not active.
- Level 3: Unobservable inputs that reflect the reporting entity's own assumptions.

The asset's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques maximize the use of relevant observable inputs and minimize the use of unobservable inputs.

The following is a description of the valuation methodology used for assets measured at fair value. There have been no changes in the methodology used as of December 31, 2023 and 2022:

Pooled Separate Accounts

Pooled separate accounts consist primarily of mutual funds, each of which follows a separate investment strategy, and are valued based on the reported unit value at year end. Units of the pooled separate account are not traded on an exchange or in an active market and these investments are valued using their net asset value ("NAV"). There are no unfunded commitments or significant redemption restrictions.

The valuation methodologies described above may produce fair value calculations that may not be indicative of net realizable value or reflective of future fair values. Furthermore, while the Plan believes its valuation methodologies are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date. There have been no significant changes in methodologies used or transfers between levels during the years ended December 31, 2023 and 2022.

As of December 31, 2023 and 2022, the Plan's investments measured at fair value on a recurring basis were as follows (there were no nonrecurring fair value measurements as of December 31, 2023 and 2022):

		Fair Value Measurements at December 31, 2023 Using Fair Value Hierarchy			
		Total Fair Value	Level 1	Level 2	Level 3
<u>Investments</u>					
	Pooled separate accounts	\$ 60,979,239	\$ 60,979,239	\$ —	\$ —
	Total investments in fair value hierarchy	\$ 60,979,239	\$ 60,979,239	\$ —	\$ —

		Fair Value Measurements at December 31, 2022 Using Fair Value Hierarchy			
		Total Fair Value	Level 1	Level 2	Level 3
<u>Investments</u>					
	Pooled separate accounts	\$ 59,603,461	\$ 59,603,461	\$ —	\$ —
	Total investments in fair value hierarchy	\$ 59,603,461	\$ 59,603,461	\$ —	\$ —

Houghton International Inc. Pension Plan

Notes to Financial Statements
December 31, 2023 and 2022

NOTE 6 – INFORMATION CERTIFIED BY TRUSTEE AND CUSTODIAN

The plan administrator has elected the method of compliance as permitted by 29 CFR 2520.103-8 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA for 2023 and 2022. Accordingly, Principal, the trustee and custodian of the Plan, has certified to the completeness and accuracy of all investments reported in the accompanying Statements of Net Assets Available for Benefits as of December 31, 2023 and 2022, the supplemental Schedule H, Line 4(i) - Schedule of Assets (Held at End of Year) as of December 31, 2023, the related investment activity reported in the Statements of Changes in Net Assets Available for Benefits for the years ended December 31, 2023 and 2022, and the information reported in the supplemental Schedule H, Line 4(j) - Schedule of Reportable Transactions for the year ended December 31, 2023.

NOTE 7 - FUNDING POLICY

Employer contributions are funded based upon amounts required under the provisions of ERISA as determined by the actuary, Principal, and are designed to fund the Plan's normal service costs. The Company's contributions were \$2,012,944 and \$1,500,000 for the Plan years 2023 and 2022, respectively, which exceeded the minimum funding requirements of ERISA for both plan years.

NOTE 8 – ACCUMULATED PLAN BENEFITS

The actuarial present value of accumulated Plan benefits as of December 31, 2022⁽¹⁾ is as follows:

Vested Benefits:

Active participants	\$ 5,966,536
Terminated participants with deferred benefits	16,504,412
Retired participants and beneficiaries currently receiving payments	43,146,869
Total vested benefits	65,617,817
Non-vested benefits	58,174
Total present value of accumulated Plan Benefits as of December 31, 2022	<u>\$ 65,675,991</u>

The changes in the actuarial present value of accumulated plan benefits as of December 31, 2022⁽¹⁾ are as follows:

Actuarial present value of accumulated plan benefits as of December 31, 2021	\$ 73,610,865
Increase (decrease) due to:	
Increase for interest due to decrease in the discount period	3,207,503
Benefits paid	(4,717,975)
Benefits accumulated and plan experience	(71,555)
Change in assumptions	(6,353,478)
Plan amendment	631
Net decrease	<u>(7,934,874)</u>
Actuarial present value of accumulated plan benefits as of December 31, 2022	<u>\$ 65,675,991</u>

⁽¹⁾ The calculation was performed as of January 1, 2023, however; if it was performed as of December 31, 2022, there would be no difference.

The change in assumptions is due to changes in the accounting policies described in Note 2, specifically the mortality basis and the expected rate of return.

NOTE 9 – RELATED PARTY AND PARTY-IN-INTEREST TRANSACTIONS

The Plan's assets are administered under contract with Principal, the custodian of the assets. Contributions are held and managed by Principal, who invests cash, interest, and makes distributions to participants. Transactions in such investments qualify as party-in-interest transactions and are exempt from the prohibited transaction rules. As described in Note 1, the Plan paid certain expenses related to plan operations and investment activity to various service providers. Additionally, certain administrative functions of the Plan are performed by officers or employees of the Company. No such officer or employee receives compensation from the Plan. These transactions are also considered party-in-interest transactions.

Houghton International Inc. Pension Plan

Notes to Financial Statements
December 31, 2023 and 2022

NOTE 10 – TAX STATUS

The Internal Revenue Service (“I.R.S.”) determined and informed the Company by letter dated November 3, 2017 that the Plan and related trust, as then designed, were qualified under Internal Revenue Code (“IRC”) Section 401(a). The Plan has since been amended; however, the Plan administrator continues to believe the Plan is designed and being operated in compliance with the applicable requirements of the IRC. The Plan administrator has not identified any uncertain tax positions which would require adjustment to or disclosure in the Plan’s financial statements. The I.R.S. has the ability to examine the Plan’s tax return filings for all open tax years, which generally relate to the three prior years; however, there are no audits for any tax periods in progress.

NOTE 11 – SUBSEQUENT EVENTS

The Plan evaluated subsequent events through September 9, 2024, the date the financial statements were issued, and there were no subsequent events, which impacted the Plan’s Net Assets Available for Benefits or the Plan’s Changes in Net Assets Available for Benefits as of and for the year ended December 31, 2023 or which require additional disclosure.

SUPPLEMENTAL SCHEDULES

Houghton International Inc. Pension Plan
Schedule H, Line 4(i), Schedule of Assets (Held at End of Year)
As of December 31, 2023

Schedule I

EIN: 23-0712270, Plan Number: 001

(a) (b) Identity of issue, borrower, lessor, or similar party	(c) Description of investment including maturity date, rate of interest, collateral, par, or maturity value	(d) Cost	(e) Current Value
* Principal LDI Intermediate Duration	Pooled separate account	\$ 28,031,569	\$ 27,101,212
* Principal LDI Long Duration	Pooled separate account	18,397,226	15,701,258
* Principal LargeCap S&P 500 Index	Pooled separate account	6,266,529	8,960,660
* Principal Real Estate Investment U.S. Property	Pooled separate account	3,715,969	4,147,090
* Principal Global Investors Diversified International	Pooled separate account	2,264,914	2,421,752
* Principal Overseas	Pooled separate account	786,130	1,133,512
* Principal Origin Emerging Markets	Pooled separate account	804,322	711,563
* Principal MidCap S&P 400 Index	Pooled separate account	384,615	563,320
* Principal SmallCap S&P 600 Index	Pooled separate account	156,691	238,872
		<u>\$ 60,807,965</u>	<u>\$ 60,979,239</u>
* Party-in-interest			

Houghton International Inc. Pension Plan
Schedule H, Line 4(j), Schedule of Reportable Transactions
As of December 31, 2023

Schedule II

EIN: 23-0712270, Plan Number: 001

(a) Identity of Party Involved	(b) Description of Asset	(c) Purchase Price	(d) Selling Price	(g) Cost of Asset	(h) Current Value of Asset on Transaction Date	(i) Net Gain (Loss)
<u>Category (i): Individual transactions in excess of 5% of plan assets</u>						
* Principal	Principal LDI Intermediate Duration	\$ 3,307,695	\$ —	\$ 3,307,695	\$ 3,307,695	\$ —
* Principal	Principal LDI Intermediate Duration	\$ 5,004,356	\$ —	\$ 5,004,356	\$ 5,004,356	\$ —
* Principal	Principal LDI Long Duration	\$ 3,677,225	\$ —	\$ 3,677,225	\$ 3,677,225	\$ —
* Principal	Principal LargeCap S&P 500 Index	\$ —	\$ 4,649,738	\$ 3,446,676	\$ 4,649,738	\$ 1,203,062
<u>Category (iii): Series of securities transactions in excess of 5% of plan assets</u>						
* Principal	Principal LDI Intermediate Duration	\$ 10,425,662	\$ —	\$ 10,425,662	\$ 10,425,662	\$ —
* Principal	Principal LDI Intermediate Duration	\$ —	\$ 3,234,387	\$ 3,631,929	\$ 3,234,387	\$ (397,542)
* Principal	Principal LDI Long Duration	\$ 5,917,522	\$ —	\$ 5,917,522	\$ 5,917,522	\$ —
* Principal	Principal LDI Long Duration	\$ —	\$ 7,928,821	\$ 10,554,779	\$ 7,928,821	\$ (2,625,958)
* Principal	Principal LargeCap S&P 500 Index	\$ —	\$ 6,430,503	\$ 4,800,835	\$ 6,430,503	\$ 1,629,668

There were no category (ii) or (iv) reportable transactions.

* Party-in-interest

SCHEDULE H, line 4j - SCHEDULE OF REPORTABLE TRANSACTIONS

HOUGHTON INTERNATIONAL INC. PENSION PLAN

EIN 23 0712270
PLAN NUMBER 001
PLAN YEAR 01/01/2023 TO 12/31/2023

DESCRIPTION OF ASSET	(A) Total Number of Purchases	(B) Total Number of Sales	(C) Total Value of Purchases	(D) Total Value of Sales	(E) Net Gain/(Loss)
Pooled Separate Accounts PRINCIPAL LDI INTERMEDIATE DUR	6		\$ 10,425,662.25		\$ 0.00
Pooled Separate Accounts PRINCIPAL LDI INTERMEDIATE DUR		52		\$ 3,234,387.45	\$ 220,988.74-
Pooled Separate Accounts PRINCIPAL LDI LONG DURATION SE	20		\$ 5,917,521.75		\$ 0.00
Pooled Separate Accounts PRINCIPAL LDI LONG DURATION SE		53		\$ 7,928,821.43	\$ 1,253,817.90-
Pooled Separate Accounts PRINCIPAL LARGE CAP S&P 500 IND	3		\$ 451,465.59		\$ 0.00
Pooled Separate Accounts PRINCIPAL LARGE CAP S&P 500 IND		4		\$ 6,430,502.68	\$ 3,699,838.00

* Schedule is prepared using the alternative way of reporting (iii) series transactions under DOL Regulation 2520.103-6(d)(2).

SCHEDULE H, line 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)

HOUGHTON INTERNATIONAL INC. PENSION PLAN

EIN 23 0712270
 PLAN NUMBER 001
 PLAN YEAR 01/01/2023 TO 12/31/2023

(A)	(B) Identity of issuer, borrower, lessor or similar party.	(C) Description of investment including maturity date, rate of interest, collateral, par or maturity value.	(D) Cost	(E) Current Value
*	Principal Life Insurance Company	Pooled Separate Accounts PRIN DIV INTL SA-I3	\$ 2,214,522.20	\$ 2,421,752.34
*	Principal Life Insurance Company	Pooled Separate Accounts PRIN LDI INTRM DUR SEP ACCT-I3	\$ 27,031,153.46	\$ 27,101,212.24
*	Principal Life Insurance Company	Pooled Separate Accounts PRIN LDI LONG DURATION SA-I3	\$ 16,125,005.98	\$ 15,701,257.68
*	Principal Life Insurance Company	Pooled Separate Accounts PRIN LGCAP S&P 500 INDEX SA-I4	\$ 3,641,950.65	\$ 8,960,660.05
*	Principal Life Insurance Company	Pooled Separate Accounts PRIN MIDCAP S&P 400 IDX SA-I4	\$ 292,131.52	\$ 563,319.97
*	Principal Life Insurance Company	Pooled Separate Accounts PRIN ORG EMG MKTS SEP ACCT-I3	\$ 766,298.75	\$ 711,563.16
*	Principal Life Insurance Company	Pooled Separate Accounts PRIN SMCAP S&P 600 INDEX SA-I4	\$ 123,348.77	\$ 238,871.62
*	Principal Life Insurance Company	Pooled Separate Accounts PRIN U.S. PROPERTY SA-I3	\$ 2,240,149.00	\$ 4,147,090.20
*	Principal Life Insurance Company	Pooled Separate Accounts PRINCIPAL OVERSEAS SA-I2	\$ 740,516.23	\$ 1,133,511.93

Assumptions prescribed by law

Mortality	Before benefit payment period IRS Prescribed Mortality - Static Non-annuitant, male and female. During benefit payment period IRS Prescribed Mortality - Static Annuitant, male and female.
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Assumptions selected by actuary

Inflation	2.40% increase per year. Our long-term inflation assumption considered the current economic environment, recent and historical data, and forecasts from Federal Reserve Bank FOMC, Congressional Budget Office, and Survey of Professional Forecasters. See Long-Term Capital Market Assumptions link.
Asset return	5.75% for the current plan year. The asset return is developed as a weighted average rate based on the target asset allocation of the plan and the long-term capital market assumptions. The calculated return is on an arithmetic mean basis. For details, see the Long-Term Capital Market Assumptions link.
Expected expense	The expected expense included in target normal cost is an estimate based on prior year expenses paid from plan assets, with an updated estimate of PBGC premiums. This is the best estimate available of upcoming year's expenses.
Retirement	Active and inactive participants are assumed to retire at normal retirement age as defined in Plan provisions. This assumption is based on the results of recent experience analysis and anticipated future experience.
Disability	1987 Commissioner's Group Disability Table, six month elimination period, male and female. We rely on a publicly published table due to the limited size of the plan. The 1987 CGDT was recommended by the Society of Actuaries for pension valuation purposes.

Marriage	75% married; husbands are 3 years older than wives. This assumption is based on the results of recent experience analysis and anticipated future experience. This assumption does not have material impact on the results of this report and has been selected based on our best estimate of active workforce.
Withdrawal	2003 Society of Actuaries Small Plan Age Table, multiplied by 1.00. We rely on a publicly published table due to the limited size of the plan. The SOA Small Plan Age Table is the most recent withdrawal experience table published by the Society of Actuaries. A multiplier of 1.00 is applied to this table to reflect the results of the most recent experience analysis and anticipated future experience.
Form of benefit	Participants are assumed to receive their benefits on the normal form at the assumed retirement age. This assumption is based on the results of recent experience analysis and anticipated future experience.

Methods prescribed by law

Liability measure	Funding target is the present value of the benefits accrued on the valuation date. Included in Funding Target is the value of any missed required minimum distributions (defined in IRC §401(a)(9) and Treasury Regulation §1.401(a)(9)), equal to back payments with interest at 7.50%. Target normal cost is based on benefits expected to accrue during the current plan year and includes an estimate of plan expenses for the year.
Benefit accrual	All benefits paid at decrement are considered in total and then split to determine how much is included in funding target. The following pieces are included in the funding target. The portion based on the plan's definition of accrued benefit. The benefit portion in excess of the accrued benefit based on the ratio of the participant's years of service on the valuation date to the years of service the participant will have at the time of decrement. The benefits included in target normal cost are calculated similarly, by splitting the benefits. The target normal cost is based on the difference between the amount included in Funding Target and an amount calculated assuming the participant accrues service through the end of the plan year.

Methods selected by plan sponsor

Asset method

The asset valuation method is prescribed by law for plans that elect to use a value other than market value.

For each of the preceding two years, an expected value of assets at the end of the year is compared to the end of year market value. The resulting gain or loss is recognized evenly over three plan years.

The expected value includes contributions, distributions, any deducted administrative expenses, and expected earnings (based on the lesser of the assumed interest rate or the maximum allowable rate). The deferred gains and losses are added to the current market value and then restricted to no more than 110% and no less than 90% of that market value.

When actual returns exceed the assumed return, the actuarial value of assets will lag below market value. The lag and the smoothing effect are limited since the value must be within 10% of market value.

Segment rates

24-month average with no weighting to prior law basis. Use rates where August is the last month included in the average.

PBGC premium basis

Variable rate premiums are calculated using census, market value of assets and interest rates in effect on the current valuation date. Interest rates are the 24-month average rates used for annual cost but without the interest rate corridor defined in IRC §430(h)(2)(C)(iv). You elected this Alternative interest method for the 01/01/2020 plan year and this method must be used for five years before a change can be made.

Methods elected by actuary

Retirees

Assets and liabilities for current and future retirees are included.

Vested benefits

A benefit is included in vested benefits if it meets the requirements under PBGC. The benefit is multiplied by the participant's vesting percentage applicable to each benefit on the valuation date.

The following ancillary benefits are always treated as nonvested: disability benefits payable to retirement age unless in pay status, pre-retirement death benefits in excess of the survivor annuity death benefit and post retirement death benefits for non-retired participants except as noted in the Plan provisions.

Assumptions and methods elected by actuary - plan accounting (ASC 960)

With the exceptions below, all assumptions and methods are the same as those used in determining your plan's regular funding target and target normal cost.

Mortality Based on Pri-2012 Total dataset base rate mortality table projected generationally using the using the Principal Mortality Improvement Scale (Principal 2022).

Mortality base rates **Before benefit payment period**
Employee amount-weighted, male and female

During benefit payment period
Retiree amount-weighted, male and female

The Society of Actuaries (SOA) is an actuarial organization that periodically reviews mortality data and publishes mortality tables and improvement scales. In October 2019, the SOA released the Pri-2012 Mortality Tables for private-sector retirement plans in the U.S. The Pri-2012 report contains different sets of mortality tables based on complete dataset or various subsets. The Total dataset base rate table was selected based on information provided by the plan sponsor.

Pri-2012 section 12.4. provided three approaches for designated beneficiaries in the calculation of joint-and-survivor annuities. We believe "Approach 1" is reasonable for this plan.

Mortality improvement

Principal 2022 MI scale is based on MIM-2021-v3 application tool issued by SOA in October 2022 with the following parameters:

Parameter	Principal 2022
Historical dataset	SSA
Whittaker-Henderson Graduation	Order 3
Interpolation Structure	Basic
Graduated MI data last year ("jumping off" point)	2017
H/D transition ultimate year by age/cohort	2028/2028
Weight placed on interpolation by cohort	50%
Initial Slope periods (constraint)	2016-2017 (0.000)
LTR	SSA LTR 2022
COVID-19 or Excess load	None ¹

¹Based on the sponsor's input, plan experience does not show a need for long-term excess death or Covid death load adjustments.

See [Mortality documentation](#) for rationale and additional information.

Interest rate used to value liabilities

5.50%

The interest rate used to value ASC 960 liabilities is developed as long-term expected geometric return on plan assets. Arithmetic expected return is calculated as the weighted average of broad asset classes' arithmetic returns of the plan's target asset allocation, and then converted to the geometric under lognormal distribution assumption. For details, see Long-Term Capital Market Assumptions link.

Treatment of administrative expenses

No adjustments are made for administrative expenses, either through a reduction in the discount rate or by calculating a present value of future expenses.

Plan sponsors may change their administrative expense handling at any time. Our approach provides consistent handling of ASC 960 liabilities from year to year, whether expenses are paid with plan assets or directly by the employer.

Note - expenses paid with plan assets are required to be included in funding normal cost. As a result, the plan is reimbursed annually through required funding. Exception – contributions are not required due to assets sufficiently in excess of liabilities to fund both expenses and normal cost. In this case, administrative expenses are taken from the excess assets.

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
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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>HOUGHTON INTERNATIONAL INC. PENSION PLAN</u>	B Three-digit plan number (PN) ▶ <u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>HOUGHTON INTERNATIONAL INC.</u>	D Employer Identification Number (EIN) <u>23-0712270</u>
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I	Basic Information
1 Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2023</u>	
2 Assets:	
a Market value	2a <u>61053135</u>
b Actuarial value	2b <u>67158448</u>
3 Funding target/participant count breakdown	
a For retired participants and beneficiaries receiving payment	(1) Number of participants <u>445</u> (2) Vested Funding Target <u>44886729</u> (3) Total Funding Target <u>44886729</u>
b For terminated vested participants	<u>296</u> <u>16910494</u> <u>16910494</u>
c For active participants	<u>85</u> <u>6132205</u> <u>6190746</u>
d Total	<u>826</u> <u>67929428</u> <u>67987969</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>5.18</u> %
6 Target normal cost	
a Present value of current plan year accruals	6a <u>34080</u>
b Expected plan-related expenses	6b <u>646000</u>
c Target normal cost	6c <u>680080</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	<u>CLM</u>	<u>08/27/2024</u>
	Signature of actuary	Date
<u>Christopher L. Meta</u>	Type or print name of actuary	<u>2307107</u>
<u>Principal Financial Group</u>	Firm name	Most recent enrollment number
<u>PO Box 9394</u> <u>Des Moines, IA 50306-9394</u>		<u>412-394-6334</u>
	Address of the firm	Telephone number (including area code)

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

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

Schedule SB (Form 5500) 2023
v. 230728

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>-19.03</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)		1376055
	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>5.35</u> %		73619
	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		1449674
	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	98.77 %
15	Adjusted funding target attainment percentage	15	98.77 %
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	110.30 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV Contributions and Liquidity Shortfalls					
18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
04/12/2024	189012	0			
07/11/2024	189012	0			
08/22/2024	1634920	0			
Totals ►			18(b)	2012944	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 1857211
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 %☐ N/A, full yield curve used**b** Applicable month (enter code).....**21b**

4

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**

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**

680080

b Excess assets, if applicable, but not greater than line 31a**31b**

0

32 Amortization installments:

Outstanding Balance

Installment

a Net shortfall amortization installment

829521

75968

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**

756048

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**

756048

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

1857211

38 Present value of excess contributions for current year (see instructions)**a** Total (excess, if any, of line 37 over line 36)**38a**

1101163

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 2a - Explanation of Assets
Houghton International Inc. Pension Plan
EIN 23-0712270 Plan No. 001

The market value of assets on line 2a does not equal assets shown on Schedule H, Schedule I or Form 5500-SF. Schedule H, Schedule I and Form 5500-SF use the full value of contributions received after plan year end. Line 2a includes the value of \$1,500,000 contributions received after the plan year end with a discounted value of \$1,449,674.

Schedule SB, Line 22 - Description Of Weighted Average Retirement Age
Houghton International Inc. Pension Plan
EIN 23-0712270 Plan No. 001

Active participants are expected to retire at the plan's assumed retirement age. The retirement rate reflects only those participants who meet retirement eligibility. An active participant working past assumed retirement age is expected to retire at current age.

(1) Age	(2) Expected Active Headcount	(3) Retirement Rate	(4) Expected Retirements (2)*(3)	(5) Weighted Age (1)*(4)
65	59.1604	1.0000	59.1604	3,845.4230
66	1.0000	1.0000	1.0000	66.0000
67	5.0000	1.0000	5.0000	335.0000
68	0.0000	1.0000	0.0000	0.0000
69	3.0000	1.0000	3.0000	207.0000
Total			68.1604	4,453.4230
Average				65.34

Schedule SB, Part V - Summary of Plan Provisions
Houghton International Inc. Pension Plan
EIN 23-0712270 Plan No. 001

This report reflects the maximum benefit limits under Internal Revenue Code (IRC) Section 415 and maximum compensation limits under IRC Section 401 in effect on the first day of each plan year.

The following is a summary of plan provisions and does not alter the intent or meanings of the provisions contained in the contract or plan document. This report reflects the provisions of the plan restatement signed 12/29/2022 through the amendment signed 05/18/2023.

Houghton Plan Provisions

(a) Plan eligibility	
Age	Attained age 21.
Service	1000 hours.
Class	All employees except Union employees not covered under the current bargaining agreement.
Entry Date	January 1 or July 1 after fulfilling eligibility requirements. Plan entry was frozen for non-union members effective 12/31/2007 and for union members effective 02/10/2020.
Normal retirement benefit	
Age	The later of attained age 65 or five years after entry date.
Form	<u>Non-Union</u> : 10 year certain and life annuity (optional forms may be elected in advance of retirement). <u>Union</u> : Monthly annuity payable for life (optional forms may be elected in advance of retirement).

Schedule SB, Part V - Summary of Plan Provisions
Houghton International Inc. Pension Plan
EIN 23-0712270 Plan No. 001

Amount
(accrued benefit)

Non-Union: 30% of average compensation reduced for service less than 15 years. Minimum is \$5 per month times service up to 30 years. Effective 3/31/2009 all accrued benefits are frozen.

Allentown Union: Monthly amount times service based on date of termination below:

3/13/2005 to 3/12/2006: \$34.00 3/13/2006 to 3/12/2007: \$35.00

3/13/2007 to 3/12/2008: \$36.00 3/13/2008 to 3/12/2009: \$37.00

3/13/2009 and beyond: \$38.00

Carrollton Union: Monthly amount times service based on date of termination below:

1/22/2005 to 1/21/2006: \$28.25 1/22/2006 to 1/21/2007: \$29.25

1/22/2007 to 1/21/2008: \$30.25 1/22/2008 to 2/9/2010: \$31.25

2/10/2010 to 2/9/2011: \$32.00 2/10/2011 to 2/9/2012: \$32.75

2/10/2012 to 2/9/2013: \$33.50 2/10/2013 to 2/9/2014: \$34.00

2/10/2014 to 2/9/2015: \$34.50 2/10/2015 to 2/9/2016: \$35.00

2/10/2016 to 2/9/2017: \$35.25 2/10/2017 to 2/9/2018: \$36.00

2/10/2018 to 2/9/2019: \$37.00 2/10/2019 to 2/9/2020: \$37.75

2/10/2020 to 2/9/2021: \$38.55 2/10/2021 to 2/9/2022: \$39.35

2/10/2022 to 2/10/2023: \$40.15 2/11/2023 and beyond: \$41.00

Benefits will be frozen as of 12/31/2023.

Chicago Union: Monthly amount times service based on date of termination below:

Before 1/1/2007: \$30.50 1/1/2007 to 12/31/2007: \$33.00

1/1/2008 to 12/31/2008: \$34.00 1/1/2009 and beyond: \$35.00

Detroit Union: \$26.00 per month times service up to 35 years.

Early retirement benefit

Age	Attained age 55.
Service	<u>Non-Union</u> : 10 years of service. <u>Union</u> : 15 years of service.
Form	Same as normal retirement benefit.
Amount	Accrued benefit on early retirement date reduced by 6 2/3% for each year up to five and 3 1/3% for each year between five and ten that the early retirement date precedes normal retirement date.

Late retirement benefit

Age	No maximum age.
Form	Same as normal retirement benefit.
Amount	Greater of accrued benefit on normal retirement date actuarially increased to late retirement date or accrued benefit on late retirement date.

Termination benefit

Vesting percentage	Subsequent to five years of service, 100%.
Form	Same as normal retirement benefit with income deferred until normal retirement date.
Amount	Accrued benefit on date of termination multiplied by the vesting percentage.

Disability benefit

Eligibility	<u>Non-Union</u> : No age requirement. <u>Allentown and Detroit Unions</u> : Attained age 40. <u>Carrollton and Chicago Unions</u> : Attained age 50.
Service	<u>Non-Union</u> : 10 years of service. <u>Union</u> : 15 years of service.
Form	<u>Non-Union</u> : Deferred to LTD end date. <u>Union</u> : Immediate.
Amount	<u>Non-Union</u> : Accrued benefit with projected compensation and service to normal retirement. <u>Union</u> : Accrued benefit with projected service to normal retirement.

Death benefit

Eligibility	Qualified married participant fully or partially vested in an accrued benefit.
Form	Monthly annuity payable to spouse, deferred to participant's earliest retirement date if later than the date of death.
Amount	If death occurs, the amount paid to the surviving spouse is equal to the amount that would have been paid had the participant terminated employment on the date of death and survived to his/her earliest retirement age, retired with a qualified joint and 50% survivor annuity in effect, then died the next day.

Definitions

Average compensation	The monthly average of total pay received for the 5 consecutive years out of the 10 latest years before retirement date which gives the highest average.
Compensation	W2 earnings. Compensation for commissioned salesmen is limited to \$75,000.
Accrual service	<u>Non-Union</u> : Elapsed time, completed months. <u>Union</u> : 1,000 hours in a plan year.
Optional forms of benefit payments	The optional forms of benefit payments are: Monthly annuity payable for life, or 10 years certain and life (Allentown only). Monthly annuity payable as a survivorship life annuity with survivorship percentages of 50, 66 2/3, 75, or 100. Single sum payment equal to the present value of the retirement benefit with no limit for Union groups and limited to \$30,000 for Non-Union.
Optional forms conversion basis	The optional form conversion basis is 7.5% interest and UP 1984 mortality table; 1 year set forward for participants, 4 year setback for beneficiaries for payments other than lump sums. For Union participants in converting the normal form to the QJSA, normal form times 0.88 plus/minus 0.004 for each year the spouse is older/younger than the participant. The optional form conversion basis uses the applicable interest rate and applicable mortality table as set forth in Code Section 417 for lump sum payments. The applicable interest rate uses the second calendar month preceding the first day of the stability period which is the plan year.

D.A. Stuart Plan Provisions

(b) Plan eligibility

Age	Attained age 21.
Service	1000 hours.
Class	All employees.
Entry Date	Date of hire. There are no new entrants in the plan after 03/31/2009.

Normal retirement benefit

Age	Attained age 65.
Form	Monthly annuity payable for life (optional forms may be elected in advance of retirement).
Amount (accrued benefit)	The life annuity is the sum of A and B minus C. A. The amount accrued under the Predecessor plan as of May 31, 1987, without regard to any Minimum Retirement Income under such Predecessor plan. B. <u>June 1, 1987 – December 31, 1987</u>: 1% of earnings up to \$8,400, plus 2% of earnings in excess of \$8,400. <u>January 1, 1988 – December 31, 1988</u>: 1% of earnings up to \$14,000, plus 2% of earnings in excess of \$14,000. <u>January 1, 1989 and after</u>: 1.42% of earnings up to \$21,000, plus 1.92% of earnings in excess of \$21,000. C. The value of any qualified annuity that was purchased under the Predecessor plan. The minimum benefit for a participant is \$240 times the total years of Benefit Accrual Service. All accrued benefits were frozen as of 03/31/2009.

Early retirement benefit

Age	Attained age 55.
Service	15 years of service.
Form	Same as normal retirement benefit.
Amount	Accrued benefit on early retirement date reduced by 6 2/3% for each year up to five and 3 1/3% for each year between five and ten that the early retirement date precedes normal retirement date.

Late retirement benefit

Age	No maximum age.
Form	Same as normal retirement benefit.
Amount	Greater of accrued benefit on normal retirement date increased 2/3% for each full month until the late retirement date or accrued benefit on late retirement date.

Termination benefit

Vesting percentage	Subsequent to five years of service, 100% for plan entry after 01/01/2006. For entry to the plan prior to 01/01/2006, the following schedule applies:
--------------------	--

Vesting Service	Percentage
Less than 3 years	0
3 years but less than 4	20
4 years but less than 5	40
5 years but less than 6	60
6 years but less than 7	80
7 years or more years	100

Form	Same as normal retirement benefit with income deferred until normal retirement date.
Amount	Accrued benefit on date of termination multiplied by the vesting percentage.

Disability retirement benefit

Eligibility	Termination due to total and permanent disability.
Service	No service requirement.
Form	Same as normal retirement benefit.
Amount	Accrued benefit payable at normal retirement.

Death benefit

Eligibility	Qualified married participant fully or partially vested in an accrued benefit.
Form	Monthly annuity payable to spouse, deferred to participant's earliest retirement date if later than the date of death.
Amount	If death occurs, the amount paid to the surviving spouse is equal to the amount that would have been paid had the participant terminated employment on the date of death and survived to his/her earliest retirement age, retired with a qualified joint and 50% survivor annuity in effect, then died the next day.

Definitions

Compensation	W2 earnings.
Accrual service	1000 hours in a plan year.
Optional forms of benefit payments	The optional forms of benefit payments are: 5, 10, and 15 years certain and life. Monthly annuity payable as a survivorship life annuity with survivorship percentages of 50, 75, or 100. Single sum payment equal to the present value of the retirement benefit limited to \$5,000.
Optional forms conversion basis	The optional form conversion basis is 7.0% interest and the mortality table in Revenue Ruling 2001-62 for payments other than lump sums.

Changes in Principal Eligibility or Benefit Provisions

The Carrollton multiplier was increased to \$41.00 as of 02/11/2023 and the Carrollton benefit was frozen as of 12/31/2023. There have been no other changes in principal eligibility or benefit provisions since the last valuation.

Significant Event

The enrolled actuary has not been made aware that any significant events have occurred during the year.

Details of shortfall charges

The historical information used to determine the total shortfall charge.

Date created	Present value	Remaining years	Shortfall charge
01/01/2023	\$829,521	15	\$75,968
Total	\$829,521		\$75,968

Last year’s total shortfall annual charge was \$0.

The total annual charge used in calculating your annual cost can’t be less than zero.

Schedule SB, Line 24 – Change in Actuarial Assumptions
Houghton International Inc. Pension Plan
EIN 23-0712270 Plan No. 001

Certain non-prescribed assumptions have been changed since last year. These assumptions were changed to better reflect the anticipated experience of your plan. See the attachment, Part V – Statement of Actuarial Assumptions/Methods, for the rationale for each assumption.

The inflation assumption has increased from 2.25% to 2.40%.

The assumed asset return for the current year has increased from 4.75% to 5.75%. This rate is used in the calculation of the actuarial value of plan assets.