

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 2022 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2022 or fiscal plan year beginning <u>01/01/2022</u> and ending <u>12/31/2022</u>	
A This return/report is for:	☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) ____
B This return/report is:	☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C If the plan is a collectively-bargained plan, check here.	☐
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 <u>CVD EQUIPMENT CORPORATION 401(K) PLAN</u>	1b Three-digit plan number (PN) ▶	<u>001</u>
2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) <u>CVD EQUIPMENT CORPORATION</u> <u>355 SOUTH TECHNOLOGY DRIVE</u> <u>CENTRAL ISLIP, NY 11722</u>	1c Effective date of plan <u>08/01/1998</u>	2b Employer Identification Number (EIN) <u>11-2621692</u>
	2c Plan Sponsor's telephone number <u>631-981-7081</u>	2d Business code (see instructions) <u>333900</u>

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

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

SIGN HERE	Filed with authorized/valid electronic signature.	<u>10/13/2023</u>	<u>RICHARD CATALANO</u>
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

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

Form 5500 (2022)
v. 220413

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		5 161
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d).		
a(1) Total number of active participants at the beginning of the plan year		6a(1) 128
a(2) Total number of active participants at the end of the plan year		6a(2) 149
b Retired or separated participants receiving benefits		6b 27
c Other retired or separated participants entitled to future benefits.....		6c 0
d Subtotal. Add lines 6a(2) , 6b , and 6c		6d 176
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.		6e 0
f Total. Add lines 6d and 6e		6f 176
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item).....		6g 109
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....		6h
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: 2E 2F 2G 2J 3D		
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	
10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)		
a Pension Schedules (1) ☒ R (Retirement Plan Information) (2) ☐ MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary (3) ☐ SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary	b General Schedules (1) ☒ H (Financial Information) (2) ☐ I (Financial Information – Small Plan) (3) ☒ 1 A (Insurance Information) (4) ☒ C (Service Provider Information) (5) ☐ D (DFE/Participating Plan Information) (6) ☐ G (Financial Transaction Schedules)	

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

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

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

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

11c Enter the Receipt Confirmation Code for the 2022 Form M-1 annual report. If the plan was not required to file the 2022 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 2022 This Form is Open to Public Inspection
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For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan	B Three-digit plan number (PN)	001
CVD EQUIPMENT CORPORATION 401(K) PLAN		
C Plan sponsor's name as shown on line 2a of Form 5500	D Employer Identification Number (EIN)	
CVD EQUIPMENT CORPORATION	11-2621692	

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
VOYA RETIREMENT INSURANCE AND ANNUITY CO.

(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
71-0294708	86509	73		01/01/2022	12/31/2022

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

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
MORGAN STANLEY SMITH BARNEY LLC
284 BELLEVUE AVENUE
NEWPORT, RI 02840

(b) Amount of sales and base commissions paid	Fees and other commissions paid		(e) Organization code
	(c) Amount	(d) Purpose	
12813	0		4

(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	60224
5	Current value of plan's interest under this contract in separate accounts at year end.....	5	3624718

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**

548335

c Additions: (1) Contributions deposited during the year**7c(1)**

21736

(2) Dividends and credits.....

7c(2)

(3) Interest credited during the year.....

7c(3)

4564

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

7c(4)

(5) Other (specify below)

7c(5)

▶

(6) Total additions.....

7c(6)

26300

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

574635

e Deductions:

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

7e(1)

165038

(2) Administration charge made by carrier.....

7e(2)

78

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

7e(3)

344001

(4) Other (specify below)

7e(4)

5294

▶ LOAN DISPERSEMENT

(5) Total deductions.....

7e(5)

514411

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

60224

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. Specify nature of costs.	10b	

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 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
		2022
		This Form is Open to Public Inspection.

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan CVD EQUIPMENT CORPORATION 401(K) PLAN	B Three-digit plan number (PN) ▶	001
C Plan sponsor's name as shown on line 2a of Form 5500 CVD EQUIPMENT CORPORATION	D Employer Identification Number (EIN) 11-2621692	

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

1 Information on Persons Receiving Only Eligible Indirect Compensation

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

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
VOYA RETIREMENT INSURANCE AND ANNUITY	P.O. BOX 990067 HARTFORD, CT 06199
71-0294708	

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
MORGAN STANLEY SMITH BARNEY	P.O. BOX 990067 HARTFORD, CT 06199
06-1375177	

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

VOYA RETIREMENT INSURANCE AND ANNUITY

22 WEST WASHINGTON STREET
CHICAGO, IL 60602

71-0294708

(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	INVESTMENT ADM	0	Yes ☒ No ☐	Yes ☐ No ☒	607	Yes ☐ No ☒

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

MORGAN STANLEY SMITH BARNEY

1 NEW YORK PLZ FL 12
NEW YORK, NY 10004

06-1375177

(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?
55	BROKER DEALER	0	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
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(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 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 2022 This Form is Open to Public Inspection				
For calendar plan year 2022 or fiscal plan year beginning <u>01/01/2022</u> and ending <u>12/31/2022</u>						
A Name of plan <u>CVD EQUIPMENT CORPORATION 401(K) PLAN</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 5px;"> B Three-digit plan number (PN) ► </td> <td style="width: 20%; padding: 5px; text-align: center;"> 001 </td> </tr> <tr> <td colspan="2" style="height: 20px;"></td> </tr> </table>		B Three-digit plan number (PN) ►	001		
B Three-digit plan number (PN) ►	001					
C Plan sponsor's name as shown on line 2a of Form 5500 <u>CVD EQUIPMENT CORPORATION</u>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 80%; padding: 5px;"> D Employer Identification Number (EIN) <u>11-2621692</u> </td> <td style="width: 20%;"></td> </tr> </table>		D Employer Identification Number (EIN) <u>11-2621692</u>			
D Employer Identification Number (EIN) <u>11-2621692</u>						

Part I	Asset and Liability Statement		
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.			
Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash.....		1a	
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....		1b(1)	54
(2) Participant contributions.....		1b(2)	107
(3) Other.....		1b(3)	
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....		1c(1)	54833560224
(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)	3392431350
(9) Value of interest in common/collective trusts.....		1c(9)	
(10) Value of interest in pooled separate accounts		1c(10)	
(11) Value of interest in master trust investment accounts.....		1c(11)	
(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)	34577053624718
(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	4039964	3716453

Liabilities

g Benefit claims payable	1g		
h Operating payables	1h		
i Acquisition indebtedness	1i		
j Other liabilities	1j		28034
k Total liabilities (add all amounts in lines 1g through 1j)	1k		28034

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	4039964	3688419
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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)	103116	
(B) Participants	2a(1)(B)	458139	
(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)		561255
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)	1463	
(F) Other	2b(1)(F)		
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		1463
(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)		
(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)		
(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)		-601994
c Other income	2c		
d Total income. Add all income amounts in column (b) and enter total	2d		-39276
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	311919	
(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)		311919
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense	2h		
i Administrative expenses: (1) Professional fees	2i(1)		
(2) Contract administrator fees	2i(2)	350	
(3) Investment advisory and management fees	2i(3)		
(4) Other	2i(4)		
(5) Total administrative expenses. Add lines 2i(1) through (4)	2i(5)		350
j Total expenses. Add all expense amounts in column (b) and enter total	2j		312269
Net Income and Reconciliation			
k Net income (loss). Subtract line 2j from line 2d	2k		-351545
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: MARCUM LLP

(2) EIN: 11-1986323

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

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

Part IV Compliance Questions

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

During the plan year:

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

	Yes	No	Amount
4a		X	

	Yes	No	Amount
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.)			
4b		X	
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.)			
4c		X	
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.)			
4d		X	
e Was this plan covered by a fidelity bond?	X		130000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		X	
4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?			
4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	X		
4i	X		
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.)			
4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?			
4k		X	
l Has the plan failed to provide any benefit when due under the plan?			
4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
4m		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.			
4n			

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

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

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

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

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

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 2022 This Form is Open to Public Inspection.
For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022		
A Name of plan CVD EQUIPMENT CORPORATION 401(K) PLAN		B Three-digit plan number (PN) ► 001
C Plan sponsor's name as shown on line 2a of Form 5500 CVD EQUIPMENT CORPORATION		D Employer Identification Number (EIN) 11-2621692
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
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): 71-0294708		
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
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) 2022 v. 220413		

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

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

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

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

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

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

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

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

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

☐ Yes.

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

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

☐ No. Other. Provide explanation _____

INDEPENDENT AUDITORS' REPORT

To the Trustees of
CVD Equipment Corporation 401(k) Plan

Scope and Nature of the ERISA Section 103(a)(3)(C) Audits

We have performed audits of the financial statements of CVD Equipment Corporation 401(k) 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 statements of net assets available for benefits as of December 31, 2022 and 2021, and the related statement of changes in net assets available for benefits for the year ended December 31, 2022, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audits of the 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 audits 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 certifications from a qualified institution as of December 31, 2022 and 2021 and for the year ended December 31, 2022, stating that the certified investment information, as described in Note 3 to the financial statements, is complete and accurate.

Opinion

In our opinion, based on our audits and on the procedures performed as described in the Auditors' 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 audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of CVD Equipment Corporation 401(k) Plan and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. 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 these 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 CVD Equipment Corporation 401(k) Plan's ability to continue as a going concern for one year after the financial statements are 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.

Auditors' 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 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.

Form 5500Department of the Treasury
Internal Revenue ServiceDepartment 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**2022****This Form is Open to Public Inspection****Part I Annual Report Identification Information**

For calendar plan year 2022 or fiscal plan year beginning 01/01/2022 and ending 12/31/2022

- A** This return/report is for: ☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.)
☒ a single-employer plan ☐ a DFE (specify) _____
- B** This return/report is: ☐ the first return/report ☐ the final return/report
☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
- C** If the plan is a collectively-bargained plan, check here. ☐
- 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

CVD EQUIPMENT CORPORATION 401(K) PLAN

1b Three-digit plan number (PN) ▶ 001**1c** Effective date of plan 08/01/1998**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)

CVD EQUIPMENT CORPORATION

2b Employer Identification Number (EIN)
11-2621692**2c** Plan Sponsor's telephone number
(631) 981-7081

355 SOUTH TECHNOLOGY DRIVE

CENTRAL ISLIP, NY 11722

2d Business code (see instructions)
333900**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	<i>Lu Catalano</i>	10/13/2023	<i>RICHARD CATALANO</i>
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

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

Form 5500 (2022)
v. 220413

CVD EQUIPMENT CORPORATION

401(K) PLAN

FINANCIAL STATEMENTS AND SUPPLEMENTAL SCHEDULE

AS OF DECEMBER 31, 2022 AND 2021, AND

FOR THE YEAR ENDED DECEMBER 31, 2022

CVD EQUIPMENT CORPORATION 401(K) PLAN

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Supplemental Schedule:

Schedule H, Line 4i – Schedule of Assets (Held at End of Year)	13-14
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INDEPENDENT AUDITORS' REPORT

To the Trustees of
CVD Equipment Corporation 401(k) Plan

Scope and Nature of the ERISA Section 103(a)(3)(C) Audits

We have performed audits of the financial statements of CVD Equipment Corporation 401(k) 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 statements of net assets available for benefits as of December 31, 2022 and 2021, and the related statement of changes in net assets available for benefits for the year ended December 31, 2022, and the related notes to the financial statements.

Management, having determined it is permissible in the circumstances, has elected to have the audits of the 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 audits 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 certifications from a qualified institution as of December 31, 2022 and 2021 and for the year ended December 31, 2022, stating that the certified investment information, as described in Note 3 to the financial statements, is complete and accurate.

Opinion

In our opinion, based on our audits and on the procedures performed as described in the Auditors' 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 audits in accordance with auditing standards generally accepted in the United States of America (GAAS). Our responsibilities under those standards are further described in the Auditors' Responsibilities for the Audit of the Financial Statements section of our report. We are required to be independent of CVD Equipment Corporation 401(k) Plan and to meet our other ethical responsibilities, in accordance with the relevant ethical requirements relating to our audits. 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 these 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 CVD Equipment Corporation 401(k) Plan's ability to continue as a going concern for one year after the financial statements are 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.

Auditors' 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 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 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 CVD Equipment Corporation 401(k) 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 CVD Equipment Corporation 401(k) Plan's ability to continue as a going concern for a reasonable period of time.

Our audits 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 audits.

Other Matters

Supplemental Schedule Required by ERISA

The supplemental schedule H, Line 4(i) – Schedule of Assets (Held at End of Year) as of December 31, 2022, is presented for purposes of additional analysis and is not a required part of the financial statements but is supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under ERISA. Such 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 schedule, other than that agreed to or derived from the certified investment information, has been subjected to auditing procedures applied in the audit of the financial statements and certain additional procedures, including 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 GAAS. For information included in the supplemental schedule 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 schedule, we evaluated whether the supplemental schedule, other than the information agreed to or derived from the certified investment information, including their form and content, is 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 schedule, other than the information in the supplemental schedule that agreed to or is derived from the certified investment information, is 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 schedule 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).

Marcum LLP

Melville, NY

October 12, 2023

CVD EQUIPMENT CORPORATION 401(K) PLAN

Statements of Net Assets Available for Benefits

	<u>December 31,</u>	
	<u>2022</u>	<u>2021</u>
Assets:		
Investments		
Fully-benefit responsive investment contract, at contract value	\$ 60,224	\$ 548,335
Pooled separate accounts, at fair value	<u>3,624,718</u>	<u>3,492,424</u>
Total investments	<u>3,684,942</u>	<u>4,040,759</u>
Receivables:		
Notes receivable from participants	31,350	33,924
Contributions receivable	<u>161</u>	<u>-</u>
Total receivables	<u>31,511</u>	<u>33,924</u>
Total assets	<u>3,716,453</u>	<u>4,074,683</u>
Liabilities:		
Excess contributions payable	<u>28,034</u>	<u>34,719</u>
Total liabilities	<u>28,034</u>	<u>34,719</u>
Net assets available for benefits	<u>\$ 3,688,419</u>	<u>\$ 4,039,964</u>

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

CVD EQUIPMENT CORPORATION 401(K) PLAN

Statement of Changes of Net Assets Available for Benefits

	Year Ended December 31, <u>2022</u>
Additions to net assets attributed to:	
Interest income:	
Interest income on notes receivable from participants	<u>1,463</u>
Contributions:	
Participants	458,139
Employer	<u>103,116</u>
Total contributions	<u>561,255</u>
Total additions	<u>562,718</u>
Deductions from net assets attributed to:	
Net depreciation in fair value of investments	601,994
Benefits paid to participants	311,919
Administrative expenses	<u>350</u>
Total deductions	<u>914,263</u>
Net decrease in net assets available for benefits	(351,545)
Net assets available for benefits – beginning of year	<u>4,039,964</u>
Net assets available for benefits – end of year	<u>\$ 3,688,419</u>

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

CVD EQUIPMENT CORPORATION 401(K) PLAN

Notes to Financial Statements

(1) Description of the Plan

The following description of the CVD Equipment Corporation 401(K) Plan (the “Plan”) provides only general information. Participants should refer to the Plan agreement for a more complete description of the Plan’s provisions.

General - The Plan is a self-directed defined contribution plan covering substantially all eligible employees of CVD Equipment Corporation and its subsidiaries (the “Company”).

All employees, except non-resident aliens, members of an excluded class and union members, are eligible to participate in the Plan. An employee is eligible to participate in the Plan on the first day of calendar month following the completion of three months of service. The Company’s Chief Executive Officer is the Plan Administrator and is responsible for oversight of the Plan. The Company has appointed Morningstar Investment Management, LLC as a non-discretionary investment advisor and is a “fiduciary” within the meaning of Section 3(21) of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”). The Plan is subject to the provisions of ERISA.

The Custodian of the Plan’s investments is Voya Retirement Insurance and Annuity Company (“VRIAC”) which is also the recordkeeper of the Plan.

On March 27, 2020, Congress passed the Coronavirus Aid, Relief, and Economic Security Act (“CARES Act”) which included several relief provisions to tax qualified plans and their participants that were put into operation by the Plan at that time. Formal adoption of the CARES Act provisions is required to occur on or before December 31, 2025.

Contributions - Contributions to the Plan include: (i) voluntary salary reductions, (ii) employer matching contributions, (iii) qualified non-elective contributions, and (iv) rollover contributions.

Participants may elect to have from 1% to 75% of their total compensation contributed to the Plan, limited to maximum pre-tax contribution limits set annually by the Internal Revenue Service (“IRS”). Participants who have attained age 50 before the end of the Plan year are eligible to make catch-up contributions. The Plan permits participants to select the investment allocations for their accounts. For 2022, the maximum allowable contribution was \$20,500 and the maximum allowable catchup contribution was \$6,500 per the Internal Revenue Code.

The Company may make a matching contribution on all participants' behalf who have made a voluntary salary reduction or catch-up contribution. Effective July 1, 2022, the Company implemented a match of 50% of a participant’s contribution up to a maximum Company match of 3% of an employee’s compensation. The Company made matching contributions in the amount of \$103,116 for the year ended December 31, 2022.

The Company may contribute, for each non-highly compensated employee, a qualified non-elective contribution in the amount determined by the Company. These amounts are used to satisfy certain nondiscrimination tests and are nonforfeitable when made. No such contributions were made during the year ended December 31, 2022.

The Plan may accept a rollover contribution made on behalf of any eligible employee, regardless of whether such employee has met the age and service requirements of the Plan. An eligible employee who has not yet met any of the eligibility requirements of the Plan will be deemed a Participant only with respect to amounts, if any, in his or her rollover contribution account.

Participant Accounts - Each participant’s account is credited with the participant’s contribution and an allocation of the Company’s contribution, if any, and investment earnings. Each participant’s account is debited with investment losses and benefit payments made to the participant. Participant accounts are

CVD EQUIPMENT CORPORATION 401(K) PLAN

Notes to Financial Statements

charged with an allocation of administrative expenses that are paid by the Plan. Investment earnings are allocated based on the ratio an individual's account bears to the total account balances of all participants in the same investment. Forfeited balances, if any, can be used to reduce the Plan's expenses or employer contributions. The benefit to which a participant is entitled is the benefit that can be provided from the participant's vested account.

Investment Elections - The participant contributions and the Company matching contributions are allocated to the various investment options offered by the Plan as the participant directs.

(1) Description of the Plan (continued)

Vesting - Funds held in the voluntary salary reduction, qualified non-elective contribution and rollover contribution accounts are fully vested and are non-forfeitable. Vesting of the Company's matching contribution portion plus actual earnings thereon is based on years of continuous service. Participants earn a year of service for vesting if they are credited with 1,000 hours of service during a Plan year. A participant is fully vested after two years of credited service.

<u>Year of Credited Service</u>	<u>Vesting Percentage</u>
Less than 1 Year	0%
1 Year but less than 2 Years	50%
2 Years	100%

Notes Receivable from Participants - Participants may borrow from the Plan under a loan feature which became effective at the Plan's inception. Loans will be granted with a minimum amount of \$1,000 and a maximum amount equal to 50% of a participant's vested account balance, but not more than \$50,000, reduced by the participant's highest loan balance if any, during the preceding 12 months. The interest rate is based on the prime lending rate, plus 1%, as charged by the current commercial bank of the employer as of the date of the loan and is fixed for the life of the loan. Loans are secured by the participant's account. Principal and interest is paid ratably through monthly payroll deductions. If any scheduled loan repayment is not made by the end of the calendar quarter following the quarter in which the missed payment was due, the loan is considered to be in default. Under certain circumstances, the participant is then treated as having received a deemed distribution for the remaining balance of the loan.

Payment of Benefits - On termination of service due to death, disability or retirement, a participant may elect to receive a lump-sum amount equal to the value of the participant's vested interest in his or her account, as described in the Plan provisions. Additionally, the Plan allows for withdrawals of vested amounts prior to termination provided certain criteria are met.

Hardship Withdrawals - The Plan provides for hardship withdrawals, as set forth in applicable sections of the Internal Revenue Code ("IRC"), not to exceed a participant's actual contributions to the Plan and must result from an immediate and heavy financial need of the participant as determined on a non-discriminatory basis by the Plan Administrator. If a participant receives a hardship withdrawal, the participant will be prohibited from contributing to the Plan on a pre-tax basis for a period of six months after the participant withdraws the funds. Due to changes in legislation, beginning January 1, 2020, the minimum six-month suspension of employee contributions previously imposed following a hardship withdrawal was lifted.

Forfeitures - Upon termination of employment, participants forfeit their unvested balances. Forfeited balances of terminated employees' nonvested accounts can be used to reduce future Company matching contributions or to pay administrative expenses of the Plan, as determined by the Company at its sole discretion. As of December 31, 2022 and 2021, there were no forfeitures outstanding, and there were no forfeitures used during the year ended December 31, 2022.

CVD EQUIPMENT CORPORATION 401(K) PLAN

Notes to Financial Statements

(2) Summary of Significant Accounting Policies

Basis of Accounting - The financial statements of the Plan are prepared on the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of American ("GAAP").

Use of Estimates - The preparation of financial statements in accordance with GAAP requires management to make estimates and assumptions that affect certain reported amounts of assets and liabilities and changes therein, and disclosure of contingent assets and liabilities. Actual results could differ from those estimates.

Investment Valuation and Income Recognition - Investments are reported at fair value, except for the fully benefit responsive investment contract which is reported at contract 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. Plan management determines the Plan's valuation policies utilizing information principally provided by VRIAC, the Custodian of the Plan's investments, as described in Note 3.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net depreciation includes the Plan's gains and losses on investments bought and sold as well as the change in the fair market value of assets held during the reporting period (see Note 4 for discussions of fair value measurements).

Notes Receivable from Participants - Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Interest income is recorded on the accrual basis. Related fees are recorded as administrative expenses and are expenses when they are incurred. Delinquent notes receivable from participants are reclassified as distributions based upon the terms of the Plan document. As of December 31, 2022 and 2021, notes receivable from participants were \$31,350 and \$33,924, respectively. No allowance for credit losses has been recorded as of December 31, 2022 and 2021. As of December 31, 2022, the interest rates on the outstanding loans ranged between 4.25% and 6.50% and are maturing through October 2025.

Excess Contributions Payable - For the years ended December 31, 2022 and 2021, the Company failed the Actual Deferral Percentage test and refunded excess contributions totaling \$28,034 and \$34,719, respectively, to the affected participants. The amounts were paid in March 2023 and March 2022, respectively, and were accounted for as liabilities in the accompanying statements of net assets available for benefits. The excess contribution of \$28,034 for 2022 has been reflected as a reduction of participant contributions in the accompanying statement of changes in net assets available for benefits for the year ended December 31, 2022.

Payment of Benefits - Benefits are recorded when paid.

Administrative Expenses - Certain expenses of maintaining the Plan are paid directly by the Plan and are included in these financial statements as administrative expenses. Expenses that are paid by the Company are excluded from these financial statements. Fees related to the administration of notes receivable from participants are charged directly to the participant's account and are included in administrative expenses. Investment related expenses are included in net depreciation of fair value of investments.

(3) Information Certified and Provided by Voya Retirement Insurance and Annuity Company

Certain information related to investments disclosed in the accompanying financial statements and ERISA-required supplemental schedule, including investments as of December 31, 2022 and 2021, and net depreciation in fair value of investments for the year ended December 31, 2022, was obtained by management and agreed to or derived from information certified as complete and accurate by VRIAC, the Custodian of the Plan's investments. This information has not been audited by the Plan's independent auditors.

CVD EQUIPMENT CORPORATION 401(K) PLAN

Notes to Financial Statements

(4) Fair Value Measurements

Financial Accounting Standards Board (“FASB”) Accounting Standards Codification (“ASC”) 820, Fair Value Measurements and Disclosures, provides the framework for measuring fair value. That framework provides a fair value hierarchy that prioritizes the inputs to valuation techniques used to measure fair value.

The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (level 1 measurements) and the lowest priority to unobservable inputs (level 3 measurements).

The three levels of the fair value hierarchy under FASB ASC 820 are described as follows:

Level 1 - Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets.

Level 2 - Inputs to the valuation methodology include:

- quoted prices for similar assets or liabilities in active markets;
- quoted prices for identical or similar assets or liabilities in inactive markets;
- inputs other than quoted prices that are observable for the asset or liability; and
- inputs that are derived principally from or corroborated by observable market data by correlation or other means.

If the asset or liability has a specified (contractual) term, the level 2 input must be observable for substantially the full term of the asset or liability.

Level 3 - Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

The asset or liability’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 used need to maximize the use of observable inputs and minimize the use of unobservable inputs.

The following is a description of the valuation methodologies used for assets measured at fair value. There have been no material changes in the methodologies on underlying assumptions used as of December 31, 2022 as compared to 2021.

Pooled separate accounts: Pooled separate accounts are valued at the daily net asset value (“NAV”) of units of the pooled separate accounts. The NAV, as provided by the VRIAC is used as a practical expedient to estimate fair value. The NAV is based on the fair value of the underlying investments held by the pooled separate account less its liabilities. This practical expedient is not used when it is determined to be probable that the pooled separate account will sell the investment for an amount different than the reported NAV.

Investments Measured Using the Net Asset Value Per Share Practical Expedient

The following table summarizes investments measured at fair value using the NAV per share practical expedient as of December 31, 2022 and 2021, respectively. There are no participant redemption restrictions for these investments and there is no redemption notice period applicable to the Plan.

December 31, 2022	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Pooled separate accounts	\$3,624,718	n/a	Daily	n/a
December 31, 2021	Fair Value	Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Pooled separate accounts	\$3,492,424	n/a	Daily	n/a

CVD EQUIPMENT CORPORATION 401(K) PLAN

Notes to Financial Statements

(5) Investment in Insurance Contract

The Plan maintained one guaranteed investment contract-related investment option; the Voya Fixed Account issued by VRIAC (a party-in-interest). As of December 31, 2022 and 2021, the contract value of the investment in the Voya Fixed Account was \$60,224 and \$548,335 respectively. This contract meets the fully benefit responsive investment contract criteria and therefore is reported at contract value. Contract value is the relevant measure for fully benefit responsive investment contracts because this is the amount received by participants if they were to initiate permitted transactions under the terms of the Plan. Contract value, as reported to the Plan by Voya, represents contributions made under the contract, plus earnings, less participant withdrawals, and administrative expenses. Participants may ordinarily direct the withdrawal or transfer of all or a portion of their investment at contract value.

The crediting interest rate to participants for the contract as of December 31, 2022 and 2021 was 1% for both years. The guaranteed minimum crediting interest rate for the contract for the years ended December 31, 2022 and 2021 was 1.00% for both years. VRIAC makes this guarantee, and although VRIAC may credit a higher interest rate, the credited rate will not fall below the lifetime guaranteed minimum of 1.00%.

VRIAC's determination of credited interest rates reflects a number of factors, including mortality and expense risks, interest rate guarantees, the investment income earned on invested assets and the amortization of any capital gains and/or losses realized on the sale of invested assets. A market value adjustment may apply to amounts withdrawn at the request of the contract holder.

Certain events limit the ability of the Plan to transact at contract value with the issuer. Such events include (1) amendments to the Plan documents (including complete or partial Plan termination or merger with another plan), (2) changes to the Plan's prohibition on competing investment options or deletion of equity wash provisions, (3) bankruptcy of the Plan sponsor or other Plan sponsor events (for example, divestitures or spin-offs of a subsidiary) that cause a significant withdrawal from the Plan, (4) the failure of the trust to qualify for exemption from federal income taxes or any required prohibited transaction exemption under ERISA, or (5) premature termination of the contract. No events are probable of occurring that might limit the ability of the Plan to transact at contract value with the contract issuers and that also would limit the ability of the plan to transact at contract value with the participants.

In addition, certain events allow the issuer to terminate the contract with the Plan and settle at an amount different from contract value. Such events include (1) an uncured violation of the Plan's investment guidelines, (2) a breach of material obligation under the contract, (3) a material misrepresentation, and (4) a material amendment to the agreement without the consent of the issuer. The Plan Administrator does not believe that the occurrence of any such event which would limit the Plan's ability to transact at contract value with participants is probable.

(6) Related Party and Party-In-Interest Transactions

Plan investments are units of pooled separate accounts and a fully benefit responsive investment contract managed by VRIAC. VRIAC is the Custodian of the Plan's investments and is its recordkeeper, and qualifies as a party-in-interest. Fees incurred by the Plan for the investment management services are included in net depreciation in fair value of the investment, as they are paid through revenue sharing, rather than a direct payment. The Company pays directly any other fees related to the Plan's operations. Fees paid by the Company are excluded from these financial statements. The Plan also makes loans to Plan participants, who are also considered to be parties-in-interest.

CVD EQUIPMENT CORPORATION 401(K) PLAN

Notes to Financial Statements

(7) Plan Termination

Although it has not expressed any intent to do so, the Company has the right under the Plan agreement, subject to the provisions of ERISA, to discontinue its contributions, amend or modify the Plan at any time. In the event of the plan termination, all participants will become fully (100 percent) vested in the salary reduction contribution account, the Company contributions account and rollover contributions account.

(8) Tax Status

The Plan is based on a “volume submitter” plan document. The sponsor of the volume submitter document has received a favorable opinion letter from the Internal Revenue Service (IRS) dated March 31, 2014, stating that the form of the Plan is qualified under Section 401 of the Internal Revenue Code. In accordance with Revenue Procedures, the Company has chosen to rely on the IRS opinion letter issued to the sponsor of the volume submitter document as evidence that the form of the Plan is tax-qualified. The Plan is also required to be operated in conformity with the IRC to maintain its tax-qualified status. The plan administrator believes that the Plan, which has been amended since the date of the opinion letter, continues to be tax-qualified in both form and operation.

Accounting principles generally accepted in the United States of America require plan management to evaluate tax positions taken by the plan and recognize a tax liability if the plan has taken an uncertain position that more likely than not would not be sustained upon examination by the IRS. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

(9) Risks and Uncertainties

The Plan invests in various investment securities. Investment securities are exposed to various risks such as interest rate, market, and credit risks. Market risks include global events which could impact the value of investment securities, such as a pandemic or international conflict. Due to the level of risk associated with certain investment securities, it is at least reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could materially affect participants’ account balances and the amounts reported in the statements of net assets available for benefits.

(10) Subsequent Events

The Plan has evaluated subsequent events through October 13, 2023, the date on which the financial statements were available to be issued. Except as noted below, there were no other events identified requiring recognition or disclosure in the financial statements.

The SECURE 2.0 Act of 2022 was signed into law on December 29, 2022. This legislation includes a vast array of provisional changes to retirement plans, becoming effective in 2023 and beyond. Plan management is evaluating the impact of the adoption and implementation of this legislation on the Plan.

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**CVD EQUIPMENT CORPORATION 401 (k) PLAN
EIN# 11-2621692- DEFINED CONTRIBUTION PLAN
PLAN NO. 001- PLAN YEAR ENDED DECEMBER 31, 2022**

Schedule H, Line 4i- Schedule of Assets (Held at End of Year)

(a)	(b)	(c)	(d)	(e)
<u>Identity of Issue, Borrower, Lessor, or Similar Party</u>	<u>Description of Investment, Including Maturity Date, Rate of Interest, Collateral Par or Maturity Value</u>	<u>Cost</u>	<u>Current Value</u>	
* Fully-benefit responsive investment contract, at contract value	* Voya Fixed Account	** \$	60,224	
Pooled separate accounts, at fair value:				
*Voya Retirement Insurance and Annuity Company	American Funds Cap Wld G I R6	**	327,767	
*Voya Retirement Insurance and Annuity Company	American Funds EuroPacific R6	**	185,636	
*Voya Retirement Insurance and Annuity Company	American Funds New World R6	**	10,084	
*Voya Retirement Insurance and Annuity Company	American Cent Mid Cap Value Fund R6	**	106,290	
*Voya Retirement Insurance and Annuity Company	ClearBridge Sm Cap Grw FD IS	**	293,600	
*Voya Retirement Insurance and Annuity Company	DFA Real Estate Secs Port Ins	**	50,330	
*Voya Retirement Insurance and Annuity Company	DFA Infl-Prot Sec Port Ins	**	2,147	
*Voya Retirement Insurance and Annuity Company	Fidelity Adv Balanced Fund Z	**	1,730	
*Voya Retirement Insurance and Annuity Company	Franklin Sm Cap Value Fund R6	**	9,694	
*Voya Retirement Insurance and Annuity Company	JP Morgan Equity Income Fund	**	622,923	
*Voya Retirement Insurance and Annuity Company	JP Morgan Large Cap Growth Fund R6	**	589,215	
*Voya Retirement Insurance and Annuity Company	Invesco Intl bond fund R6	**	5,226	
*Voya Retirement Insurance and Annuity Company	Invesco Main Street Fund I	**	31,815	
*Voya Retirement Insurance and Annuity Company	PGIM high yield Fund R6	**	108,010	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire Income Fund	**	5,502	
*Voya Retirement Insurance and Annuity Company	Vanguard Mid-Cap Index Fund	**	109,273	
*Voya Retirement Insurance and Annuity Company	Vanguard Small-Cap index Fund A	**	12,643	
*Voya Retirement Insurance and Annuity Company	Vanguard Trgt Retire 2025 Fd	**	146,232	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2030	**	224,263	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2035	**	276,399	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2040	**	201,067	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2045	**	11,400	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2050	**	26,014	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2055	**	34,698	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2060	**	88,884	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2070	**	488	
*Voya Retirement Insurance and Annuity Company	Vanguard 500 Index Fund Adm	**	101,905	
*Voya Retirement Insurance and Annuity Company	* Voya Intermediate Bond Fund R6	**	19,647	
*Voya Retirement Insurance and Annuity Company	* Voya Mid-Cap Growth Equity Fd 8	**	21,836	
Total pooled separate accounts, at fair value			<u>3,624,718</u>	
*Participant loans	Interest rates ranging from 4.25%- 6.5%, maturing Oct. 2025.	\$ --	\$	31,350
Total			<u><u>\$</u></u>	<u><u>3,716,292</u></u>

**CVD EQUIPMENT CORPORATION 401 (k) PLAN
EIN# 11-2621692- DEFINED CONTRIBUTION PLAN
PLAN NO. 001- PLAN YEAR ENDED DECEMBER 31, 2022**

Schedule H, Line 4i- Schedule of Assets (Held at End of Year)

Note: The above information has been certified as complete and accurate by VRIAC, the Custodian of the Plan's investments, with the exception of participant loans.

* A party in interest

** Cost omitted for participant-directed investments

See Independent Auditors' Report

**CVD EQUIPMENT CORPORATION 401 (k) PLAN
EIN# 11-2621692- DEFINED CONTRIBUTION PLAN
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Schedule H, Line 4i- Schedule of Assets (Held at End of Year)

(a)	(b)	(c)	(d)	(e)
<u>Identity of Issue, Borrower, Lessor, or Similar Party</u>	<u>Description of Investment, Including Maturity Date, Rate of Interest, Collateral Par or Maturity Value</u>	<u>Cost</u>	<u>Current Value</u>	
* Fully-benefit responsive investment contract, at contract value	* Voya Fixed Account	** \$	60,224	
Pooled separate accounts, at fair value:				
*Voya Retirement Insurance and Annuity Company	American Funds Cap Wld G I R6	**	327,767	
*Voya Retirement Insurance and Annuity Company	American Funds EuroPacific R6	**	185,636	
*Voya Retirement Insurance and Annuity Company	American Funds New World R6	**	10,084	
*Voya Retirement Insurance and Annuity Company	American Cent Mid Cap Value Fund R6	**	106,290	
*Voya Retirement Insurance and Annuity Company	ClearBridge Sm Cap Grw FD IS	**	293,600	
*Voya Retirement Insurance and Annuity Company	DFA Real Estate Secs Port Ins	**	50,330	
*Voya Retirement Insurance and Annuity Company	DFA Infl-Prot Sec Port Ins	**	2,147	
*Voya Retirement Insurance and Annuity Company	Fidelity Adv Balanced Fund Z	**	1,730	
*Voya Retirement Insurance and Annuity Company	Franklin Sm Cap Value Fund R6	**	9,694	
*Voya Retirement Insurance and Annuity Company	JP Morgan Equity Income Fund	**	622,923	
*Voya Retirement Insurance and Annuity Company	JP Morgan Large Cap Growth Fund R6	**	589,215	
*Voya Retirement Insurance and Annuity Company	Invesco Intl bond fund R6	**	5,226	
*Voya Retirement Insurance and Annuity Company	Invesco Main Street Fund I	**	31,815	
*Voya Retirement Insurance and Annuity Company	PGIM high yield Fund R6	**	108,010	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire Income Fund	**	5,502	
*Voya Retirement Insurance and Annuity Company	Vanguard Mid-Cap Index Fund	**	109,273	
*Voya Retirement Insurance and Annuity Company	Vanguard Small-Cap index Fund A	**	12,643	
*Voya Retirement Insurance and Annuity Company	Vanguard Trgt Retire 2025 Fd	**	146,232	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2030	**	224,263	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2035	**	276,399	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2040	**	201,067	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2045	**	11,400	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2050	**	26,014	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2055	**	34,698	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2060	**	88,884	
*Voya Retirement Insurance and Annuity Company	Vanguard Target Retire 2070	**	488	
*Voya Retirement Insurance and Annuity Company	Vanguard 500 Index Fund Adm	**	101,905	
*Voya Retirement Insurance and Annuity Company	* Voya Intermediate Bond Fund R6	**	19,647	
*Voya Retirement Insurance and Annuity Company	* Voya Mid-Cap Growth Equity Fd 8	**	21,836	
Total pooled separate accounts, at fair value			<u>3,624,718</u>	
*Participant loans	Interest rates ranging from 4.25%-6.5%, maturing Oct. 2025.	\$ --	\$ 31,350	
Total			<u><u>\$ 3,716,292</u></u>	

**CVD EQUIPMENT CORPORATION 401 (k) PLAN
EIN# 11-2621692- DEFINED CONTRIBUTION PLAN
PLAN NO. 001- PLAN YEAR ENDED DECEMBER 31, 2022**

Schedule H, Line 4i- Schedule of Assets (Held at End of Year)

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