

Form 5500-SF

Department of the Treasury Internal Revenue Service

Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation

Short Form Annual Return/Report of Small Employee Benefit Plan

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

Complete all entries in accordance with the instructions to the Form 5500-SF.

OMB Nos. 1210-0110 1210-0089

2024

This Form is Open to Public Inspection

Part I Annual Report Identification Information

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

- A This return/report is for: [X] a single-employer plan [ ] a multiple-employer plan (not multiemployer) (Pension Plan filers checking this box must attach Schedule MEP. Other plans must attach a list of participating employer information in accordance with the form instructions.)
B This return/report is [ ] the first return/report [ ] the final return/report [ ] an amended return/report [ ] a short plan year return/report (less than 12 months)
C Check box if filing under: [X] Form 5558 [ ] automatic extension [ ] DFVC program [ ] special extension (enter description)
D If the plan is a collectively-bargained plan, check here [ ]
E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here [ ]

Part II Basic Plan Information—enter all requested information

1a Name of plan: MERRIMAC CORPORATION CASH BALANCE PLAN
1b Three-digit plan number (PN): 002
1c Effective date of plan: 01/01/2020
2a Plan sponsor's name (employer, if for a single-employer plan): MERRIMAC CORPORATION
2b Employer Identification Number (EIN): 13-3110064
2c Sponsor's telephone number: 203-274-9540
2d Business code (see instructions): 523900
3a Plan administrator's name and address: [X] Same as Plan Sponsor.
3b Administrator's EIN
3c Administrator's telephone number
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report.
4b EIN
4d PN
5a Total number of participants at the beginning of the plan year: 9
5b Total number of participants at the end of the plan year: 9
5c(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item)
5c(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)
5d(1) Total number of active participants at the beginning of the plan year: 9
5d(2) Total number of active participants at the end of the plan year: 9
5e Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested: 0

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established. Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including, if applicable, a Schedule SB or Schedule MB completed and signed by an enrolled actuary, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

Table with 4 columns: SIGN HERE, Signature of plan administrator, Date, Enter name of individual signing as plan administrator. Row 1: Filed with authorized/valid electronic signature, 08/15/2025, CLARK CHENG. Row 2: Signature of employer/plan sponsor, Date, Enter name of individual signing as employer or plan sponsor.

- 6a** Were all of the plan's assets during the plan year invested in eligible assets? (See instructions.) .....  Yes  No
- b** Are you claiming a waiver of the annual examination and report of an independent qualified public accountant (IQPA) under 29 CFR 2520.104-46? (See instructions on waiver eligibility and conditions.) .....  Yes  No
- If you answered "No" to either line 6a or line 6b, the plan cannot use Form 5500-SF and must instead use Form 5500.**
- c** If the plan is a defined benefit plan, is it covered under the PBGC insurance program (see ERISA section 4021)? .....  Yes  No  Not determined
- If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 541793. (See instructions.)

| <b>Part III Financial Information</b>  |              |                              |                        |
|--|--------------|------------------------------|------------------------|
| <b>7</b> Plan Assets and Liabilities   |              | <b>(a) Beginning of Year</b> | <b>(b) End of Year</b> |
| <b>a</b> Total plan assets .....   | <b>7a</b>    | 1647044                      | 2204898                |
| <b>b</b> Total plan liabilities .....  | <b>7b</b>    |                              |                        |
| <b>c</b> Net plan assets (subtract line 7b from line 7a) .....                                       | <b>7c</b>    | 1647044                      | 2204898                |
| <b>8</b> Income, Expenses, and Transfers for this Plan Year  |              | <b>(a) Amount</b>            | <b>(b) Total</b>       |
| <b>a</b> Contributions received or receivable from:  |              |                              |                        |
| <b>(1)</b> Employers .....   | <b>8a(1)</b> | 476000                       |                        |
| <b>(2)</b> Participants .....  | <b>8a(2)</b> |                              |                        |
| <b>(3)</b> Others (including rollovers) .....  | <b>8a(3)</b> |                              |                        |
| <b>b</b> Other income (loss) .....   | <b>8b</b>    | 81954                        |                        |
| <b>c</b> Total income (add lines 8a(1), 8a(2), 8a(3), and 8b) .....                                  | <b>8c</b>    |                              | 557954                 |
| <b>d</b> Benefits paid (including direct rollovers and insurance premiums to provide benefits) ..... | <b>8d</b>    |                              |                        |
| <b>e</b> Certain deemed and/or corrective distributions (see instructions) .                         | <b>8e</b>    |                              |                        |
| <b>f</b> Administrative service providers (salaries, fees, commissions) .....                        | <b>8f</b>    | 100                          |                        |
| <b>g</b> Other expenses .....  | <b>8g</b>    |                              |                        |
| <b>h</b> Total expenses (add lines 8d, 8e, 8f, and 8g) .....   | <b>8h</b>    |                              | 100                    |
| <b>i</b> Net income (loss) (subtract line 8h from line 8c) .....                                     | <b>8i</b>    |                              | 557854                 |
| <b>j</b> Transfers to (from) the plan (see instructions) .....                                       | <b>8j</b>    |                              |                        |

| <b>Part IV Plan Characteristics</b> |   |
|-------------------------------------|---|
| <b>9a</b>                           | If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions:<br>1A 1C 3D |
| <b>b</b>                            | If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:             |

| <b>Part V Compliance Questions</b>  |            |            |           |               |
|---|------------|------------|-----------|---------------|
| <b>10</b> During the plan year:   |            | <b>Yes</b> | <b>No</b> | <b>Amount</b> |
| <b>a</b> Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program) ..... | <b>10a</b> |            | X         |               |
| <b>b</b> Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.) .....  | <b>10b</b> |            | X         |               |
| <b>c</b> Was the plan covered by a fidelity bond? .....   | <b>10c</b> | X          |           | 400000        |
| <b>d</b> Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty? .....   | <b>10d</b> |            | X         |               |
| <b>e</b> Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service, or other organization that provides some or all of the benefits under the plan? (See instructions.) .....   | <b>10e</b> |            | X         |               |
| <b>f</b> Has the plan failed to provide any benefit when due under the plan? .....  | <b>10f</b> |            | X         |               |
| <b>g</b> Did the plan have any participant loans? (If "Yes," enter amount as of year-end.) .....  | <b>10g</b> |            | X         |               |
| <b>h</b> If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.) .....  | <b>10h</b> |            |           |               |
| <b>i</b> If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3 .....   | <b>10i</b> |            |           |               |

**Part VI Pension Funding Compliance**

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

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

**b PBGC missed contribution reporting requirements.** If the plan is covered by PBGC and the amount reported on line 11a is greater than \$0, has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:  
 Yes.  
 No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date.  
 No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date.  
 No. Other. Provide explanation \_\_\_\_\_

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

**a** If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions, and enter the date of the letter ruling granting the waiver. .... Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

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

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

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

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

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

**Part VII Plan Terminations and Transfers of Assets**

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

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

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

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

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

**Part VIII IRS Compliance Questions**

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

**14b** If this is a Code section 401(k) plan, check all boxes that apply to indicate how the plan is intended to satisfy the nondiscrimination requirements for employee deferrals and employer matching contributions (as applicable) under Code sections 401(k)(3) and 401(m)(2).  
 Design-based safe harbor method  
 "Prior year" ADP test  
 "Current year" ADP test  
 N/A

**15** If the plan sponsor is an adopter of a pre-approved plan that received a favorable IRS Opinion Letter, enter the date of the Opinion Letter 02 / 28 / 2023 (MM/DD/YYYY) and the Opinion Letter serial number Q705199A.

|   |  |  |
|---|--|--|
| <b>SCHEDULE SB</b><br><b>(Form 5500)</b><br><br><small>Department of the Treasury<br/>Internal Revenue Service</small><br><br><small>Department of Labor<br/>Employee Benefits Security Administration</small><br><br><small>Pension Benefit Guaranty Corporation</small> | <b>Single-Employer Defined Benefit Plan</b><br><b>Actuarial Information</b><br><br>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).<br><br><b>▶ File as an attachment to Form 5500 or 5500-SF.</b> | <small>OMB No. 1210-0110</small><br><br><b>2024</b><br><br><b>This Form is Open to Public Inspection</b> |
|---|--|--|

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

▶ **Round off amounts to nearest dollar.**  
 ▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

|   |   |            |
|---|---|------------|
| <b>A</b> Name of plan<br><u>MERRIMAC CORPORATION CASH BALANCE PLAN</u>  | <b>B</b> Three-digit plan number (PN) ▶   | <u>002</u> |
| <b>C</b> Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF<br><u>MERRIMAC CORPORATION</u>                                   | <b>D</b> Employer Identification Number (EIN)<br><u>13-3110064</u>  |            |
| <b>E</b> Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B | <b>F</b> Prior year plan size: <input checked="" type="checkbox"/> 100 or fewer <input type="checkbox"/> 101-500 <input type="checkbox"/> More than 500 |            |

**Part I Basic Information**

|   |  |                           |                          |
|---|--|---------------------------|--------------------------|
| <b>1</b> Enter the valuation date:  | Month <u>12</u> Day <u>31</u> Year <u>2024</u> |                           |                          |
| <b>2</b> Assets:  |  |                           |                          |
| <b>a</b> Market value .....   | <b>2a</b>                                      | <u>1728898</u>            |                          |
| <b>b</b> Actuarial value .....  | <b>2b</b>                                      | <u>1728898</u>            |                          |
| <b>3</b> Funding target/participant count breakdown   | (1) Number of participants                     | (2) Vested Funding Target | (3) Total Funding Target |
| <b>a</b> For retired participants and beneficiaries receiving payment .....   | <u>0</u>                                       | <u>0</u>                  | <u>0</u>                 |
| <b>b</b> For terminated vested participants .....   | <u>0</u>                                       | <u>0</u>                  | <u>0</u>                 |
| <b>c</b> For active participants .....  | <u>9</u>                                       | <u>1669797</u>            | <u>1669797</u>           |
| <b>d</b> Total .....  | <u>9</u>                                       | <u>1669797</u>            | <u>1669797</u>           |
| <b>4</b> If the plan is in at-risk status, check the box and complete lines (a) and (b)..... <input type="checkbox"/>   |  |                           |                          |
| <b>a</b> Funding target disregarding prescribed at-risk assumptions .....   | <b>4a</b>                                      |                           |                          |
| <b>b</b> Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor ..... | <b>4b</b>                                      |                           |                          |
| <b>5</b> Effective interest rate .....  | <b>5</b>                                       |                           | <u>5.35 %</u>            |
| <b>6</b> Target normal cost   |  |                           |                          |
| <b>a</b> Present value of current plan year accruals .....  | <b>6a</b>                                      |                           | <u>456360</u>            |
| <b>b</b> Expected plan-related expenses .....   | <b>6b</b>                                      |                           | <u>0</u>                 |
| <b>c</b> Target normal cost .....   | <b>6c</b>                                      |                           | <u>456360</u>            |

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

|  |  |
|--|--|
| <b>SIGN HERE</b><br><br>Signature of actuary<br><br><u>BRIAN R. WEST, EA FSA MSEA FCA MAAA</u><br>Type or print name of actuary<br><br><u>FUTUREPLAN BY ASCENSUS</u><br>Firm name<br><br><u>PO BOX 56034</u><br><u>BOSTON, MA 02205</u><br><br>Address of the firm | <u>07/28/2025</u><br>Date<br><br><u>23-07202</u><br>Most recent enrollment number<br><br><u>727-395-1578</u><br>Telephone number (including area code) |
|--|--|

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



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

|   |   |  |                                     |   |
|---|---|--|-------------------------------------|---|
| <b>21</b> Discount rate:                        |   |  |                                     |   |
| <b>a</b> Segment rates:                         | 1st segment:<br>5.04 %                                    | 2nd segment:<br>5.32 %                         | 3rd segment:<br>5.59 %              | <input type="checkbox"/> N/A, full yield curve used |
| <b>b</b> Applicable month (enter code) .....    |   |  |                                     | <b>21b</b> 4  |
| <b>22</b> Weighted average retirement age ..... |   |  |                                     | <b>22</b> 62  |
| <b>23</b> Mortality table(s) (see instructions) | <input checked="" type="checkbox"/> Prescribed - combined | <input type="checkbox"/> Prescribed - separate | <input type="checkbox"/> Substitute |   |

**Part VI Miscellaneous Items**

|   |   |  |
|---|---|--|
| <b>24</b> Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment..... | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| <b>25</b> Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.....                                      | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| <b>26</b> Demographic and benefit information   |   |  |
| <b>a</b> Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.....                             | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |
| <b>b</b> Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...                      | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| <b>27</b> If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....                                   | <b>27</b>                               |  |

**Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years**

|   |           |   |
|---|-----------|---|
| <b>28</b> Unpaid minimum required contributions for all prior years .....   | <b>28</b> | 0 |
| <b>29</b> Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)..... | <b>29</b> | 0 |
| <b>30</b> Remaining amount of unpaid minimum required contributions (line 28 minus line 29).....                                    | <b>30</b> | 0 |

**Part VIII Minimum Required Contribution For Current Year**

|  |                     |                    |               |
|--|---------------------|--------------------|---------------|
| <b>31</b> Target normal cost and excess assets (see instructions):   |                     |                    |               |
| <b>a</b> Target normal cost (line 6c) .....  | <b>31a</b>          | 456360             |               |
| <b>b</b> Excess assets, if applicable, but not greater than line 31a .....   | <b>31b</b>          | 59101              |               |
| <b>32</b> Amortization installments:   | Outstanding Balance | Installment        |               |
| <b>a</b> Net shortfall amortization installment .....  | 0                   | 0                  |               |
| <b>b</b> Waiver amortization installment.....  |                     |                    |               |
| <b>33</b> If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount ..... | <b>33</b>           |                    |               |
| <b>34</b> Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33).....  | <b>34</b>           | 397259             |               |
|  | Carryover balance   | Prefunding balance | Total balance |
| <b>35</b> Balances elected for use to offset funding requirement .....   |                     |                    | 0             |
| <b>36</b> Additional cash requirement (line 34 minus line 35) .....  | <b>36</b>           | 397259             |               |
| <b>37</b> Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c) .....  | <b>37</b>           | 467671             |               |
| <b>38</b> Present value of excess contributions for current year (see instructions)  |                     |                    |               |
| <b>a</b> Total (excess, if any, of line 37 over line 36)   | <b>38a</b>          | 70412              |               |
| <b>b</b> Portion included in line 38a attributable to use of prefunding and funding standard carryover balances.....   | <b>38b</b>          | 0                  |               |
| <b>39</b> Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37) .....  | <b>39</b>           | 0                  |               |
| <b>40</b> Unpaid minimum required contributions for all years .....  | <b>40</b>           | 0                  |               |

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

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

**Merrimac Corporation Cash Balance Plan**

Schedule of Active Participant Data

Plan Year: 1/1/2024 to 12/31/2024

Valuation Date: 12/31/2024

| <b>Svc/<br/>Age</b> | <b>&lt;1</b> | <b>1-4</b> | <b>5-9</b> | <b>10-14</b> | <b>15-19</b> | <b>20-24</b> | <b>25-29</b> | <b>30-34</b> | <b>35-39</b> | <b>40+</b> | <b>Total</b> |
|---------------------|--------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|------------|--------------|
| <25                 | 0            | 0          | 0          | 0            | 0            | 0            | 0            | 0            | 0            | 0          | 0            |
| 25-29               | 0            | 0          | 0          | 0            | 0            | 0            | 0            | 0            | 0            | 0          | 0            |
| 30-34               | 0            | 0          | 1          | 1            | 0            | 0            | 0            | 0            | 0            | 0          | 2            |
| 35-39               | 0            | 0          | 0          | 0            | 0            | 0            | 0            | 0            | 0            | 0          | 0            |
| 40-44               | 0            | 0          | 1          | 0            | 0            | 0            | 0            | 0            | 0            | 0          | 1            |
| 45-49               | 0            | 1          | 1          | 1            | 0            | 0            | 0            | 0            | 0            | 0          | 3            |
| 50-54               | 0            | 0          | 0          | 1            | 0            | 0            | 0            | 0            | 0            | 0          | 1            |
| 55-59               | 0            | 1          | 0          | 0            | 0            | 0            | 0            | 0            | 0            | 0          | 1            |
| 60-64               | 0            | 0          | 1          | 0            | 0            | 0            | 0            | 0            | 0            | 0          | 1            |
| 65-69               | 0            | 0          | 0          | 0            | 0            | 0            | 0            | 0            | 0            | 0          | 0            |
| 70+                 | 0            | 0          | 0          | 0            | 0            | 0            | 0            | 0            | 0            | 0          | 0            |
| <b>Total</b>        | <b>0</b>     | <b>2</b>   | <b>4</b>   | <b>3</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>     | <b>0</b>   | <b>9</b>     |

\* Employees who have not met the minimum eligibility requirements are excluded

Average Age: 45.8

Average Service: 7

**Merrimac Corporation Cash Balance Plan**

Summary of Actuarial Assumptions and Method

Plan Year: 1/1/2024 to 12/31/2024

Valuation Date: 12/31/2024

|   | <b>For Funding</b>   |            | <b>For 417(e)</b>   | <b>For Actuarial Equiv.</b>   |
|---|--|------------|---|---|
|   | <b>Min</b>   | <b>Max</b> |   |   |
| <b>Interest Rates</b>                                 | Seg 1: 5.04%   | 5.04%      | Seg 1: 5.50%  | Pre-Retirement: 5.00%   |
|   | Seg 2: 5.32%   | 5.32%      | Seg 2: 5.76%  | Post-Retirement: 5.00%  |
|   | Seg 3: 5.59%   | 5.33%      | Seg 3: 5.83%  |   |
| <b>Applicable Date</b>                                | 08/2024  | 08/2024    | 11/2023   |   |
| <b>Pre-Retirement</b>                                 |  |            |   |   |
| <b>Turnover</b>                                       | None   |            | None  | None  |
| <b>Mortality</b>                                      | None   |            | None  | None  |
| <b>Assumed Ret Age</b>                                | Normal retirement age 62 and 5 years of participation  |            | Normal retirement age 62 and 5 years of participation                 | Normal retirement age 62 and 5 years of participation   |
| <b>Post-Retirement</b>                                |  |            |   |   |
| <b>Mortality</b>                                      | Male-2024 Small Plan Static Table – Combined Male Female-2024 Small Plan Static Table – Combined Female  |            | 2024 Applicable Mortality Table from Notice 2023-73                   | 2024 Applicable Mortality Table from Notice 2023-73   |
| <b>Assumed Benefit Form For Funding</b>               |  |            | 100% Lump Sum / 0% Normal Form  |   |
| <b>Assumed Spouse's Age</b>                           | Spouse assumed to be the same age as participant   |            |   | Spouse assumed to be the same age as participant  |
|   | Participant is assumed to be married to current spouse at retirement if spouse's date of birth is known  |            |   | Participant is assumed to be married to current spouse at retirement if spouse's date of birth is known |
| <b>Calculated Effective Interest Rate</b>             |  |            | 5.35%   |   |
| <b>Cash Balance Projected Interest Crediting Rate</b> |  |            | 5.00% annual rate   |   |
| <b>Cash Balance Post-Retirement Conversion Assump</b> |  |            | 5.00% interest<br>2024 Applicable Mortality Table from Notice 2023-73 |   |
| <b>Actuarial Cost Method</b>                          | The Unit Credit funding method was used as prescribed by the Pension Protection Act. This method sets the funding target equal to the present value of accrued benefits, and sets the normal cost equal to the present value of the benefit accrued in the current year. |            |   |   |

An actuarial value of assets is used for funding purposes. This year the actuarial value of assets is 100.0% of the market value of assets.

**Form 5500-SF**

Department of the Treasury  
Internal Revenue Service

Department of Labor  
Employee Benefits Security Administration  
Pension Benefit Guaranty Corporation

**Short Form Annual Return/Report of Small Employee Benefit Plan**

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

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

OMB Nos. 1210-0110  
1210-0089

**2024**

**This Form is Open to Public Inspection**

**Part I Annual Report Identification Information**

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

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

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

**C** Check box if filing under:  Form 5558  automatic extension  DFVC program  
 special extension (enter description)

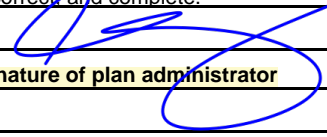
**D** If the plan is a collectively-bargained plan, check here ..... ▶

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

**Part II Basic Plan Information—enter all requested information**

|   |  |              |
|---|--|--------------|
| <b>1a</b> Name of plan<br>Merrimac Corporation Cash Balance Plan  | <b>1b</b> Three-digit plan number (PN) ▶       | 002          |
|   | <b>1c</b> Effective date of plan               | 01/01/2020   |
| <b>2a</b> Plan sponsor's name (employer, if for a single-employer plan)<br>Mailing address (include room, apt., suite no. and street, or P.O. Box)<br>City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions)<br>Merrimac Corporation<br><br>1 Dock Street, Suite 300<br><br>Stamford CT 06902-6740 | <b>2b</b> Employer Identification Number (EIN) | 13-3110064   |
|   | <b>2c</b> Sponsor's telephone number           | 203-274-9540 |
|   | <b>2d</b> Business code (see instructions)     | 523900       |
| <b>3a</b> Plan administrator's name and address <input checked="" type="checkbox"/> Same as Plan Sponsor.   | <b>3b</b> Administrator's EIN                  |              |
|   | <b>3c</b> Administrator's telephone number     |              |
| <b>4</b> 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.<br><b>a</b> Sponsor's name<br><b>c</b> Plan Name  | <b>4b</b> EIN                                  |              |
|   | <b>4d</b> PN                                   |              |
| <b>5a</b> Total number of participants at the beginning of the plan year .....  | <b>5a</b>                                      | 9            |
| <b>b</b> Total number of participants at the end of the plan year.....  | <b>5b</b>                                      | 9            |
| <b>c(1)</b> Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item) .....  | <b>5c(1)</b>                                   |              |
| <b>c(2)</b> Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) .....  | <b>5c(2)</b>                                   |              |
| <b>d(1)</b> Total number of active participants at the beginning of the plan year.....  | <b>5d(1)</b>                                   | 9            |
| <b>d(2)</b> Total number of active participants at the end of the plan year .....   | <b>5d(2)</b>                                   | 9            |
| <b>e</b> Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested.....   | <b>5e</b>                                      | 0            |

**Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.**  
Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including, if applicable, a Schedule SB or Schedule MB completed and signed by an enrolled actuary, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

|           |   |          |  |
|-----------|---|----------|--|
| SIGN HERE |  | 08/15/25 | Clark Cheng  |
|           | 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 |

- 6a** Were all of the plan's assets during the plan year invested in eligible assets? (See instructions.).....  Yes  No
- b** Are you claiming a waiver of the annual examination and report of an independent qualified public accountant (IQPA) under 29 CFR 2520.104-46? (See instructions on waiver eligibility and conditions.).....  Yes  No
- If you answered "No" to either line 6a or line 6b, the plan cannot use Form 5500-SF and must instead use Form 5500.**
- c** If the plan is a defined benefit plan, is it covered under the PBGC insurance program (see ERISA section 4021)? .....  Yes  No  Not determined
- If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 541793. (See instructions.)

| <b>Part III Financial Information</b>  |              |                              |                        |
|--|--------------|------------------------------|------------------------|
| <b>7</b> Plan Assets and Liabilities   |              | <b>(a) Beginning of Year</b> | <b>(b) End of Year</b> |
| <b>a</b> Total plan assets .....   | <b>7a</b>    | 1,647,044                    | 2,204,898              |
| <b>b</b> Total plan liabilities .....  | <b>7b</b>    |                              |                        |
| <b>c</b> Net plan assets (subtract line 7b from line 7a) .....                                       | <b>7c</b>    | 1,647,044                    | 2,204,898              |
| <b>8</b> Income, Expenses, and Transfers for this Plan Year  |              | <b>(a) Amount</b>            | <b>(b) Total</b>       |
| <b>a</b> Contributions received or receivable from:  |              |                              |                        |
| <b>(1)</b> Employers .....   | <b>8a(1)</b> | 476,000                      |                        |
| <b>(2)</b> Participants .....  | <b>8a(2)</b> |                              |                        |
| <b>(3)</b> Others (including rollovers) .....  | <b>8a(3)</b> |                              |                        |
| <b>b</b> Other income (loss) .....   | <b>8b</b>    | 81,954                       |                        |
| <b>c</b> Total income (add lines 8a(1), 8a(2), 8a(3), and 8b) .....                                  | <b>8c</b>    |                              | 557,954                |
| <b>d</b> Benefits paid (including direct rollovers and insurance premiums to provide benefits) ..... | <b>8d</b>    |                              |                        |
| <b>e</b> Certain deemed and/or corrective distributions (see instructions) .                         | <b>8e</b>    |                              |                        |
| <b>f</b> Administrative service providers (salaries, fees, commissions) .....                        | <b>8f</b>    | 100                          |                        |
| <b>g</b> Other expenses .....  | <b>8g</b>    |                              |                        |
| <b>h</b> Total expenses (add lines 8d, 8e, 8f, and 8g) .....   | <b>8h</b>    |                              | 100                    |
| <b>i</b> Net income (loss) (subtract line 8h from line 8c) .....                                     | <b>8i</b>    |                              | 557,854                |
| <b>j</b> Transfers to (from) the plan (see instructions) .....                                       | <b>8j</b>    |                              |                        |

| <b>Part IV Plan Characteristics</b> |   |
|-------------------------------------|---|
| <b>9a</b>                           | If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions:<br>1A 1C 3D |
| <b>b</b>                            | If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:             |

| <b>Part V Compliance Questions</b>  |            |            |           |               |
|---|------------|------------|-----------|---------------|
| <b>10</b> During the plan year:   |            | <b>Yes</b> | <b>No</b> | <b>Amount</b> |
| <b>a</b> Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program) ..... | <b>10a</b> |            | X         |               |
| <b>b</b> Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.) .....  | <b>10b</b> |            | X         |               |
| <b>c</b> Was the plan covered by a fidelity bond? .....   | <b>10c</b> | X          |           | 400,000       |
| <b>d</b> Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty? .....   | <b>10d</b> |            | X         |               |
| <b>e</b> Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service, or other organization that provides some or all of the benefits under the plan? (See instructions.) .....   | <b>10e</b> |            | X         |               |
| <b>f</b> Has the plan failed to provide any benefit when due under the plan? .....  | <b>10f</b> |            | X         |               |
| <b>g</b> Did the plan have any participant loans? (If "Yes," enter amount as of year-end.) .....  | <b>10g</b> |            | X         |               |
| <b>h</b> If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.) .....  | <b>10h</b> |            |           |               |
| <b>i</b> If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3 .....   | <b>10i</b> |            |           |               |

**Part VI Pension Funding Compliance**

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

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

**b PBGC missed contribution reporting requirements.** If the plan is covered by PBGC and the amount reported on line 11a is greater than \$0, has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:

Yes.

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

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

No. Other. Provide explanation \_\_\_\_\_

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

**a** If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions, and enter the date of the letter ruling granting the waiver. Month \_\_\_\_\_ Day \_\_\_\_\_ Year \_\_\_\_\_

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

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

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

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

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

**Part VII Plan Terminations and Transfers of Assets**

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

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

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

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

| <b>13c(1)</b> Name of plan(s): | <b>13c(2)</b> EIN(s) | <b>13c(3)</b> PN(s) |
|--------------------------------|----------------------|---------------------|
|                                |                      |                     |
|                                |                      |                     |
|                                |                      |                     |

**Part VIII IRS Compliance Questions**

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

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

Design-based safe harbor method

"Prior year" ADP test

"Current year" ADP test

N/A

**15** If the plan sponsor is an adopter of a pre-approved plan that received a favorable IRS Opinion Letter, enter the date of the Opinion Letter 02/28/2023 (MM/DD/YYYY) and the Opinion Letter serial number Q705199a.

|   |  |  |
|---|--|--|
| <b>SCHEDULE SB</b><br><b>(Form 5500)</b><br><br><small>Department of the Treasury<br/>Internal Revenue Service</small><br><br><small>Department of Labor<br/>Employee Benefits Security Administration</small><br><br><small>Pension Benefit Guaranty Corporation</small> | <b>Single-Employer Defined Benefit Plan</b><br><b>Actuarial Information</b><br><br>This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code).<br><br><b>▶ File as an attachment to Form 5500 or 5500-SF.</b> | <small>OMB No. 1210-0110</small><br><br><b>2024</b><br><br><b>This Form is Open to Public Inspection</b> |
|---|--|--|



For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

▶ **Round off amounts to nearest dollar.**  
 ▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

|   |   |     |
|---|---|-----|
| <b>A</b> Name of plan<br>Merrimac Corporation Cash Balance Plan   | <b>B</b> Three-digit plan number (PN) ▶   | 002 |
| <b>C</b> Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF<br>Merrimac Corporation  | <b>D</b> Employer Identification Number (EIN)<br>13-3110064   |     |
| <b>E</b> Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B | <b>F</b> Prior year plan size: <input checked="" type="checkbox"/> 100 or fewer <input type="checkbox"/> 101-500 <input type="checkbox"/> More than 500 |     |

| <b>Part I</b> | <b>Basic Information</b>  |  |                           |
|---------------|---|--|---------------------------|
| <b>1</b>      | Enter the valuation date:   | Month <u>12</u> Day <u>31</u> Year <u>2024</u> |                           |
| <b>2</b>      | Assets:   |  |                           |
|               | <b>a</b> Market value .....   | <b>2a</b>                                      | 1,728,898                 |
|               | <b>b</b> Actuarial value .....  | <b>2b</b>                                      | 1,728,898                 |
| <b>3</b>      | Funding target/participant count breakdown  | (1) Number of participants                     | (2) Vested Funding Target |
|               | <b>a</b> For retired participants and beneficiaries receiving payment .....   | 0  | 0                         |
|               | <b>b</b> For terminated vested participants .....   | 0  | 0                         |
|               | <b>c</b> For active participants .....  | 9  | 1,669,797                 |
|               | <b>d</b> Total .....  | 9  | 1,669,797                 |
| <b>4</b>      | If the plan is in at-risk status, check the box and complete lines (a) and (b)..... <input type="checkbox"/>  |  |                           |
|               | <b>a</b> Funding target disregarding prescribed at-risk assumptions .....   | <b>4a</b>                                      |                           |
|               | <b>b</b> Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor ..... | <b>4b</b>                                      |                           |
| <b>5</b>      | Effective interest rate .....   | <b>5</b>                                       | 5.35%                     |
| <b>6</b>      | Target normal cost  |  |                           |
|               | <b>a</b> Present value of current plan year accruals .....  | <b>6a</b>                                      | 456,360                   |
|               | <b>b</b> Expected plan-related expenses .....   | <b>6b</b>                                      | 0                         |
|               | <b>c</b> Target normal cost .....   | <b>6c</b>                                      | 456,360                   |

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

|                  |   |   |
|------------------|---|---|
| <b>SIGN HERE</b> | Brian R. West <br>Signature of actuary | <br>Date |
|                  | Brian R. West, EA FSA MSEA FCA MAAA<br>Type or print name of actuary  | 2307202<br>Most recent enrollment number  |
|                  | FuturePlan by Ascensus<br>Firm name   | 727-395-1578<br>Telephone number (including area code)  |
|                  | PO Box 56034<br>Boston MA 02205<br>Address of the firm  |   |

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



|   |  |                        |                       |   |
|---|--|------------------------|-----------------------|---|
| <b>Part V Assumptions Used to Determine Funding Target and Target Normal Cost</b> |  |                        |                       |   |
| <b>21</b> Discount rate:  |  |                        |                       |   |
| <b>a</b> Segment rates:   | 1st segment:<br>5.04 %   | 2nd segment:<br>5.32 % | 3rd segment:<br>5.59% | <input type="checkbox"/> N/A, full yield curve used |
| <b>b</b> Applicable month (enter code).....                                       |  |                        |                       | <b>21b</b> 4  |
| <b>22</b> Weighted average retirement age .....                                   |  |                        |                       | <b>22</b> 62  |
| <b>23</b> Mortality table(s) (see instructions)                                   | <input checked="" type="checkbox"/> Prescribed - combined <input type="checkbox"/> Prescribed - separate <input type="checkbox"/> Substitute |                        |                       |   |

|   |  |  |  |           |
|---|--|--|--|-----------|
| <b>Part VI Miscellaneous Items</b>  |  |  |  |           |
| <b>24</b> Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment..... <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |  |  |           |
| <b>25</b> Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment. .... <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                     |  |  |  |           |
| <b>26</b> Demographic and benefit information   |  |  |  |           |
| <b>a</b> Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment. .... <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                            |  |  |  |           |
| <b>b</b> Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ... <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                      |  |  |  |           |
| <b>27</b> If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....   |  |  |  | <b>27</b> |

|   |  |  |  |             |
|---|--|--|--|-------------|
| <b>Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years</b>   |  |  |  |             |
| <b>28</b> Unpaid minimum required contributions for all prior years .....   |  |  |  | <b>28</b> 0 |
| <b>29</b> Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)..... |  |  |  | <b>29</b> 0 |
| <b>30</b> Remaining amount of unpaid minimum required contributions (line 28 minus line 29).....                                    |  |  |  | <b>30</b> 0 |

|  |                     |                    |               |                    |
|--|---------------------|--------------------|---------------|--------------------|
| <b>Part VIII Minimum Required Contribution For Current Year</b>  |                     |                    |               |                    |
| <b>31</b> Target normal cost and excess assets (see instructions):   |                     |                    |               |                    |
| <b>a</b> Target normal cost (line 6c).....   |                     |                    |               | <b>31a</b> 456,360 |
| <b>b</b> Excess assets, if applicable, but not greater than line 31a .....   |                     |                    |               | <b>31b</b> 59,101  |
| <b>32</b> Amortization installments:   | Outstanding Balance |                    | Installment   |                    |
| <b>a</b> Net shortfall amortization installment .....  | 0                   |                    | 0             |                    |
| <b>b</b> Waiver amortization installment .....   |                     |                    |               |                    |
| <b>33</b> If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount ..... |                     |                    |               | <b>33</b>          |
| <b>34</b> Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33).....  |                     |                    |               | <b>34</b> 397,259  |
|  | Carryover balance   | Prefunding balance | Total balance |                    |
| <b>35</b> Balances elected for use to offset funding requirement .....   |                     |                    | 0             |                    |
| <b>36</b> Additional cash requirement (line 34 minus line 35).....   |                     |                    |               | <b>36</b> 397,259  |
| <b>37</b> Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....   |                     |                    |               | <b>37</b> 467,671  |
| <b>38</b> Present value of excess contributions for current year (see instructions)  |                     |                    |               |                    |
| <b>a</b> Total (excess, if any, of line 37 over line 36)   |                     |                    |               | <b>38a</b> 70,412  |
| <b>b</b> Portion included in line 38a attributable to use of prefunding and funding standard carryover balances .....  |                     |                    |               | <b>38b</b> 0       |
| <b>39</b> Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37).....   |                     |                    |               | <b>39</b> 0        |
| <b>40</b> Unpaid minimum required contributions for all years .....  |                     |                    |               | <b>40</b> 0        |

|   |  |  |  |  |
|---|--|--|--|--|
| <b>Part IX Pension Funding Relief Under the American Rescue Plan Act of 2021 (See Instructions)</b>   |  |  |  |  |
| <b>41</b> If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. <input type="checkbox"/> 2019 <input type="checkbox"/> 2020 <input type="checkbox"/> 2021 |  |  |  |  |

## **Schedule SB, line 15 - Reconciliation of differences between valuation results and amounts to calculate AFTAP**

Plan Name: Merrimac Corporation Cash Balance Plan

EIN: 13-3110064

Plan #: 002

Plan Year: 01/01/2024 through 12/31/2024

The valuation date is the last day of the plan year. The funding target used for the AFTAP was adjusted to include the normal cost for the year. The actuarial value of assets was adjusted to include contributions made for the plan year as of the certification date.

The AFTAP reported is the AFTAP based on the 2024 plan year valuation data, with adjustments mentioned above, which shall be used to apply benefit restrictions to the 2025 Plan Year.

## Merrimac Corporation Cash Balance Plan

Summary of Plan Provisions  
Plan Year: 1/1/2024 to 12/31/2024  
Valuation Date: 12/31/2024

|   |  |
|---|--|
| <b>Plan Effective Date</b>              | January 1, 2020  |
| <b>Plan Year</b>                        | From January 1, 2024 to December 31, 2024  |
| <b>Eligibility</b>                      | <p>All employees not excluded by class are eligible to enter on the January 1 or July 1 coincident with or following the completion of the following requirements:</p> <p>1 year of service<br/>Minimum age 21</p> <p>Union Employees, Nonresident aliens, Leased Employees and Employees who are not named as receiving Principal Credits</p>   |
| <b>Normal Retirement Age</b>            | <p>All participants are eligible to retire with their full retirement benefit on the later of the following:</p> <p>Attainment of age 62<br/>Completion of 5 years of participation from beginning of entry year</p>   |
| <b>Cash Balance Contribution Credit</b> | <p>The plan provides the following cash balance contribution credits to participants based on their group classification:</p> <p>Group 1:<br/>The lesser of 49% of compensation and \$149,000</p> <p>Group 2:<br/>The lesser of 26% of compensation and \$77,000</p> <p>Group 3:<br/>The lesser of 33% of compensation and \$100,000</p> <p>Group 4:<br/>The lesser of 17% of compensation and \$50,000</p> <p>Group 9:<br/>No contribution</p> <p>Group 10:</p> <p>The maximum monthly benefit is the lesser of \$22,916.66 and 100% of the highest 3-year average salary, subject to service requirements.</p> <p>Salary based contribution credits are applied to current compensation.</p> |
| <b>Normal Form of Benefit</b>           | A benefit payable for the life of the participant  |
| <b>Accrued Benefit</b>                  | The normal retirement benefit described above calculated based on salary and/or service on the calculation date, and payable on the normal retirement date.  |

## **Merrimac Corporation Cash Balance Plan**

Summary of Plan Provisions  
Plan Year: 1/1/2024 to 12/31/2024  
Valuation Date: 12/31/2024

Credited years are plan years from date of hire excluding the following:

Years with less than 1,000 hours

### **Termination Benefit**

Upon termination for any reason other than death or retirement a participant shall be entitled to a portion of the actuarial equivalent of his accrued benefit in accordance with the following vesting schedule:

Immediate 100% vesting

Credited years are plan years from date of hire excluding the following:

Years with less than 1,000 hours

### **Top-Heavy Minimum Benefit**

Top-heavy minimum benefits are provided under another plan of the employer

### **Top-Heavy Status**

A plan is top-heavy if over 60% of the value of all accrued benefits in all of the employer's plans are for the benefit of key employees. A key employee is generally an officer or owner of the company. This plan is currently top-heavy.

### **Death Benefit**

Actuarial Equivalent of the accrued benefit earned to date of death

### **Cash Balance**

The annual Interest Crediting Rate for this plan year is 5.00%