Archived: Thursday, November 16, 2023 12:34:39 PM From: Yazzie, Cody (EGLE) Sent: Mon, 13 Nov 2023 21:21:09 To: EGLE-ROP Cc: Cosier, Dina (EGLE) Brothers, Monica (EGLE) Dan Plant Subject: FW: Three Rivers Gray Iron Air Permit Renewal Importance: Normal Sensitivity: None Attachments: 2023 ROP Renewal Application - Signed.pdf

This is the ROP application for Metal Technologies.

Regards,

Cody Yazzie

Environmental Engineer

Air Quality Division / Kalamazoo District Office

Michigan Department of Environment, Great Lakes and Energy (EGLE)

\*New Phone: 269-312-2754 | YazzieC@michigan.gov

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Coming soon for industrial stakeholders!



From: Dan Plant <DPlant@metal-technologies.com> Sent: Monday, November 13, 2023 3:07 PM To: Yazzie, Cody (EGLE) <YazzieC@michigan.gov> Subject: Three Rivers Gray Iron Air Permit Renewal

CAUTION: This is an External email. Please send suspicious emails to <u>abuse@michigan.gov</u>

Hi Cody,

I used to work with Rex and then Amanda on our permitting, but sounds like you're the lucky one now!

I've attached our renewal application documents and placed the hard copy in the mail today.

A few items of interest:

- 1. Comments to remove EUs subject to continuous monitoring under NESHAPs from FGCAM\_UNITS. This is not a big deal for us, but rather making clarifications.
- 2. Some updates to FGMACTEEEEE, primarily due to the 2018-2020 EPA Residual Technology and Risk Reviews. Not much impact other than updated citations, removal of SSM provisions, and requirement for electronic reporting.

Thank you,

Dan Plant

Director of Environmental Engineering



1401 S. Grandstaff Drive

Auburn, IN 46706

Direct Phone 260.920.2137

Cell Phone 260.750.3541

www.metal-technologies.com

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### 11/8/2023

Mr. Cody Yazzie Michigan Department of Environmental Quality Kalamazoo District Office 7953 Adobe Road Kalamazoo, MI 49009 269-567-3500

### Subject: 2023 Renewal of Permit B2015 for Three Rivers Gray Iron

Dear Mr. Yazzie,

Please accept this as Three Rivers Gray Iron's ("TRG") application for its ROP renewal. There are no requests for major changes to the current permit. There are minor requests related to CAM applicability and MACT language.

In addition to this cover letter, the application package includes:

- 1. ROP Renewal Application Form EQP 6000
- 2. Mark-up copy of current permit
- 3. CAM Plan (included in facility's Air Pollution Control Plan)
- 4. MACT O&M Plan (included in facility's Air Pollution Control Plan)
- 5. Consent Order AQD No. 2018-20

Please feel free to contact me at any time with questions or concerns at 260-920-2137 or dplant@metal-technologies.com.

Sincerely,

Dan Plant

Three Rivers Gray Iron



# RENEWABLE OPERATING PERMIT RENEWAL APPLICATION FORM

This information is required by Article II, Chapter 1, Part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to obtain a permit required by Part 55 may result in penalties and/or imprisonment. Refer to instructions for additional information to complete the Renewable Operating Permit Renewal Application Form.

### GENERAL INSTRUCTIONS

This application form should be submitted as part of an administratively complete application package for renewal of a Renewable Operating Permit (ROP). This application form consists of nine parts. Parts A – H must be completed for all applications and must also be completed for each section of a sectioned ROP. Answer all questions in all parts of the form unless directed otherwise. Detailed instructions for this application form can be found at <a href="http://michigan.gov/air">http://michigan.gov/air</a> (select the Permits Tab, "Renewable Operating Permits (ROP)/Title V", then "ROP Forms & Templates").

### PART A: GENERAL INFORMATION

Enter information about the source, owner, contact person and the responsible official.

### SOURCE INFORMATION

| SRN   | SIC Code  | NAICS Co | ode   | Existing ROP Number |   |                    | Section Number (if applicable)           |  |  |  |
|---|---|----------|-------|---------------------|---|--------------------|--|--|--|--|
| B2015   | 3321  | 3321     |       | MI-ROP-B2015-2019   |   |                    | n/a                                      |  |  |  |
| Source Name<br>Metal Technologie                    | Source Name<br>Metal Technologies, Inc – Three Rivers Gray Iron |          |       |                     |   |                    |  |  |  |  |
| Street Address<br>429 Fourth St                     |   |          |       |                     |   |                    |  |  |  |  |
| City  |   |          | State |                     | ZIP Code                                    | County             |  |  |  |  |
| Three Rivers  |   |          | MI    |                     | 49093                                       | St. Joseph         |  |  |  |  |
| Section/Town/Range                                  | (if address not avail   | able)    |       |                     |   |                    |  |  |  |  |
|   |   |          |       |                     | ectrically using line<br>as required and sh |                    | ric melters and pours iron into astings. |  |  |  |
|   | any of the above<br>I-up copy of you                            |          |       | eren                | t than what appea                           | rs in the existing | ROP. Identify any changes                |  |  |  |
|   | IATION  |          |       |                     |   |                    |  |  |  |  |
| Owner Name  |   |          |       |                     |   |                    | Section Number (if applicable)           |  |  |  |
| Dock Foundry LL                                     | Dock Foundry LLC d/b/a Three Rivers Gray Iron Plant n/a         |          |       |                     |   |                    | n/a                                      |  |  |  |
| Mailing address (⊠ check if same as source address) |   |          |       |                     |   |                    |  |  |  |  |

| City | State | ZIP Code | County | Country |
|------|-------|----------|--------|---------|
|      |       |          |        |         |

| Check here if any information in this ROP renewal application is confidential. | Confidential information should be |
|--|------------------------------------|
| identified on an Additional Information (AI-001) Form.                         |                                    |

### PART A: GENERAL INFORMATION (continued)

At least one contact and responsible official must be identified. Additional contacts and responsible officials may be included if necessary.

### **CONTACT INFORMATION**

| Contact 1 Name  |       |          | Title                                  |                                       |  |         |
|---|-------|----------|--|---------------------------------------|--|---------|
| Dan Plant   |       |          |  | Director of Environmental Engineering |  |         |
| Company Name & Mailing address ( check if same as source addrese Metal Technologies, Inc. |       |          | s)                                     |                                       |  |         |
| City  | State | ZIP Code | •                                      | County                                |  | Country |
| Auburn  | IN    | 46706    |  | Dekalb                                |  | USA     |
|   |       |          | l address<br>nt@metal-technologies.com |                                       |  |         |

| Contact 2 Name (optional)                                      |       |           | Title |        |         |
|--|-------|-----------|-------|--------|---------|
|  |       |           |       |        |         |
| Company Name & Mailing address (     check if same as source a |       |           | )     |        |         |
|  |       |           |       |        |         |
| City   | State | ZIP Code  |       | County | Country |
|  |       |           |       |        |         |
| Phone number   |       | E-mail ad | dress |        |         |
|  |       |           |       |        |         |

### **RESPONSIBLE OFFICIAL INFORMATION**

| Responsible Official 1 Name                |               |   | Title |               |   |         |  |
|--|---------------|---|-------|---------------|---|---------|--|
| Dave Bent                                  |               | Director of Casting Operations - Michigan |       |               |   |         |  |
| Company Name & Mailing address (🛛 check if | same as sourc | e address                                 | )     |               |   |         |  |
| City                                       | State         | ZIP Code                                  | )     | County        |   | Country |  |
| Phone number<br>269-279-3769               |               | E-mail ac<br>dbent@                       |       | nnologies.com | n |         |  |

| Responsible Official 2 Name (optional)                            |       |                | Title |        |         |
|---|-------|----------------|-------|--------|---------|
|   |       |                |       |        |         |
| Company Name & Mailing address (     check if same as source addr |       |                | )     |        |         |
|   |       |                |       |        |         |
| City  | State | ZIP Code       |       | County | Country |
|   |       |                |       |        |         |
| Phone number  |       | E-mail address |       |        |         |
|   |       |                |       |        |         |
|   |       |                |       |        |         |

Check here if an AI-001 Form is attached to provide more information for Part A. Enter AI-001 Form ID:

SRN: B2015 Section Number (if applicable): n/a

# PART B: APPLICATION SUBMITTAL and CERTIFICATION by Responsible Official

Identify the items that are included as part of your administratively complete application in the checklist below. For your application to be complete, it must include information necessary to evaluate the source and to determine all applicable requirements. Answer the compliance statements as they pertain to all the applicable requirements to which the source is subject. The source's Responsible Official must sign and date this form.

| Listi | isting of ROP Application Contents. Check the box for the items included with your application.           |  |   |  |  |  |
|-------|---|--|---|--|--|--|
|       | Completed ROP Renewal Application Form (and any Al-001 Forms) (required)                                  |  | Compliance Plan/Schedule of Compliance              |  |  |  |
|       | Mark-up copy of existing ROP using official<br>version from the AQD website (required)                    |  | Stack information                                   |  |  |  |
|       | Copies of all Permit(s) to Install (PTIs) that have<br>not been incorporated into existing ROP (required) |  | Acid Rain Permit Initial/Renewal Application        |  |  |  |
|       | Criteria Pollutant/Hazardous Air Pollutant (HAP)<br>Potential to Emit Calculations                        |  | Cross-State Air Pollution Rule (CSAPR) Information  |  |  |  |
|       | MAERS Forms (to report emissions not previously<br>submitted)   |  | Confidential Information                            |  |  |  |
|       | Copies of all Consent Order/Consent Judgments that have not been incorporated into existing ROP           |  | Paper copy of all documentation provided (required) |  |  |  |
|       | Compliance Assurance Monitoring (CAM) Plan  |  | Electronic documents provided (optional)            |  |  |  |
|       | Other Plans (e.g., Malfunction Abatement, Fugitive<br>Dust, Operation and Maintenance, etc.)              |  | Other, explain:                                     |  |  |  |

| Compliance Statement   |                                      |
|--|--------------------------------------|
| This source is in compliance with <u>all</u> of its applicable requirements, including those contained in the existing ROP, Permits to Install that have not yet been incorporated into that ROP, and other applicable requirements not currently contained in the existing ROP.                                       | Yes 🗌 No                             |
| This source will continue to be in compliance with all of its applicable requirements, including those contained in the existing ROP, Permits to Install that have not yet been incorporated into that ROP, and other applicable requirements not currently contained in the existing ROP.                             | 🛛 Yes 🗌 No                           |
| This source will meet in a timely manner applicable requirements that become effective during the permit term.   | 🛛 Yes 🗌 No                           |
| The method(s) used to determine compliance for each applicable requirement is/are the method(s) sp<br>existing ROP, Permits to Install that have not yet been incorporated into that ROP, and all other applied<br>not currently contained in the existing ROP.  | ecified in the<br>cable requirements |
| If any of the above are checked No, identify the emission unit(s) or flexible group(s) affected and the s<br>number(s) or applicable requirement for which the source is or will be out of compliance at the time of<br>ROP renewal on an AI-001 Form. Provide a compliance plan and schedule of compliance on an AI-0 | issuance of the                      |
| Name and Title of the Responsible Official (Print or Type)   |                                      |
| David Bent, Director of Casting Operations - Michigan  |                                      |

As a Responsible Official, I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this application are true, accurate, and complete.

Signature of Responsible Official

Date

# PART C: SOURCE REQUIREMENT INFORMATION

Answer the questions below for specific requirements or programs to which the source may be subject.

| C1.       | Actual emissions and associated data from <u>all</u> emission units with applicable requirements (including those identified in the existing ROP, Permits to Install and other equipment that have not yet been incorporated into the ROP) are required to be reported in MAERS. Are there any emissions and associated data that have <u>not</u> been reported in MAERS for the most recent emissions reporting year? If <u>Yes</u> , identify the emission unit(s) that was/were not reported in MAERS on an AI-001 Form. Applicable MAERS form(s) for unreported emission units must be included with this application. | 🗌 Yes        | 🖾 No  |
|-----------|--|--------------|-------|
| C2.       | Is this source subject to the federal regulations on ozone-depleting substances? (40 CFR Part 82)  | 🗌 Yes        | 🛛 No  |
| C3.       | Is this source subject to the federal Chemical Accident Prevention Provisions?<br>(Section 112(r) of the Clean Air Act Amendments, 40 CFR Part 68)   | 🗌 Yes        | 🛛 No  |
|           | If <u>Yes</u> , a Risk Management Plan (RMP) and periodic updates must be submitted to the USEPA.<br>Has an updated RMP been submitted to the USEPA?   | 🗌 Yes        | 🗌 No  |
| C4.       | Has this stationary source <u>added or modified</u> equipment since the last ROP renewal that changes the potential to emit (PTE) for criteria pollutant (CO, NOx, PM10, PM2.5, SO <sub>2</sub> , VOC, lead) emissions?  | 🗌 Yes        | 🛛 No  |
|           | If <u>Yes</u> , include potential emission calculations (or the PTI and/or ROP revision application numbers, or other references for the PTE demonstration) for the added or modified equipment on an AI-001 Form.<br>If <u>No</u> , criteria pollutant potential emission calculations do not need to be included.  |              |       |
| C5.       | Has this stationary source <b>added or modified</b> equipment since the last ROP renewal that changes the PTE for hazardous air pollutants (HAPs) regulated by Section 112 of the federal Clean Air Act?   | 🗌 Yes        | 🛛 No  |
|           | If <u>Yes</u> , include potential emission calculations (or the PTI and/or ROP revision application numbers or other references for the PTE demonstration) for the added or modified equipment on an AI-001 Form. Fugitive emissions <u>must</u> be included in HAP emission calculations. If <u>No</u> , HAP potential emission calculations do not need to be included.  |              |       |
| C6.       | Are any emission units subject to the Cross-State Air Pollution Rule (CSAPR)? If <u>Yes</u> , identify the specific emission unit(s) subject to CSAPR on an AI-001 Form.   | 🗌 Yes        | 🛛 No  |
| C7.       | Are any emission units subject to the federal Acid Rain Program? If <u>Yes</u> , identify the specific emission unit(s) subject to the federal Acid Rain Program on an AI-001 Form.  | 🗌 Yes        | 🛛 No  |
|           | Is an Acid Rain Permit Renewal Application included with this application?   | 🗌 Yes        | 🛛 No  |
| C8.       | Are any emission units identified in the existing ROP subject to compliance assurance monitoring (CAM)?<br>If <u>Yes</u> , identify the specific emission unit(s) subject to CAM on an AI-001 Form. If a CAM plan has not been previously submitted to EGLE, one must be included with the ROP renewal application on an AI-001 Form. If the CAM Plan has been updated, include an updated copy.   | 🛛 Yes        | 🗌 No  |
|           | Is a CAM plan included with this application?<br>If a CAM Plan is included, check the type of proposed monitoring included in the Plan:<br>1. Monitoring proposed by the source based on performance of the control device, or<br>2. Presumptively Acceptable Monitoring, if eligible  | ⊠ Yes        | 🗌 No  |
| C9.       | Does the source have any plans such as a malfunction abatement plan, fugitive dust plan, operation/maintenance plan, or any other monitoring plan that is referenced in an existing ROP, Permit to Install requirement, or any other applicable requirement?   | Yes          | 🗌 No  |
|           | If <u>Yes</u> , then a copy must be submitted as part of the ROP renewal application.  |              |       |
| C10.      | Are there any specific requirements that the source proposes to be identified in the ROP as non-applicable?  | 🗌 Yes        | 🛛 No  |
|           | If <u>Yes</u> , then a description of the requirement and justification must be submitted as part of the ROP renewal application on an Al-001 Form.  |              | 0.411 |
| $\bowtie$ | Check here if an AI-001 Form is attached to provide more information for Part C. Enter AI-001 For  | ש: <b>AI</b> | -CAM  |

| SRN: | Section Number (if applicable): |
|------|---------------------------------|
|      |                                 |

# PART D: PERMIT TO INSTALL (PTI) EXEMPT EMISSION UNIT INFORMATION

Review all emission units at the source and answer the question below.

| D1. Does the source have any emission units that do not appear in the existing ROP but are required to be listed in the ROP application under R 336.1212(4) (Rule 212(4)) of the Michigan Air Pollution Control Rules? If <u>Yes</u> , identify the emission units in the table below. |  |   |  |  |  |  |  |  |
|--|--|---|--|--|--|--|--|--|
| If <u>No</u> , go to Part E.   |  |   |  |  |  |  |  |  |
| Note: Emission units that are subject to process specific emission limitations or standards, even if identified in Rule 212, must be captured in either Part G or H of this application form. Identical emission units may be grouped (e.g. PTI exempt Storage Tanks).                 |  |   |  |  |  |  |  |  |
| Emission Unit Description  | Rule 212(4) Citation<br>[e.g. Rule 212(4)(c)]  | Rule 201 Exemption<br>Rule Citation<br>[e.g. Rule 282(2)(b)(i)]   |  |  |  |  |  |  |
| Stand grinders used to remove burrs and other minor defects from castings.   | Rule 212(4)(i)   | Rule 291  |  |  |  |  |  |  |
|  |  |   |  |  |  |  |  |  |
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|  |  |   |  |  |  |  |  |  |
|  | d in the ROP application under R 336.1212(4) (<br>ion Control Rules? If <u>Yes</u> , identify the emission<br>at are subject to process specific emission limit<br>her Part G or H of this application form. Identic<br>).<br>Emission Unit Description<br>Stand grinders used to remove burrs and other | d in the ROP application under R 336.1212(4) (Rule 212(4)) of the         ion Control Rules? If Yes, identify the emission units in the table below         at are subject to process specific emission limitations or standards, eventies         her Part G or H of this application form. Identical emission units may b         b.         Emission Unit Description         Rule 212(4) Citation         [e.g. Rule 212(4)(c)]         Stand grinders used to remove burrs and other |  |  |  |  |  |  |

Comments:

Check here if an AI-001 Form is attached to provide more information for Part D. Enter AI-001 Form ID: AI-

## PART E: EXISTING ROP INFORMATION

Review all emission units and applicable requirements (including any source wide requirements) in the <u>existing</u> ROP and answer the questions below as they pertain to <u>all</u> emission units and <u>all</u> applicable requirements in the existing ROP.

| E1. Does the source propose to make any additions, changes or deletions to terms, conditions and underlying applicable requirements as they appear in the existing ROP?  | 🛛 Yes       | 🗌 No |
|--|-------------|------|
| If Yes, identify changes and additions on Part F, Part G and/or Part H.  |             |      |
| E2. For each emission unit(s) identified in the existing ROP, <u>all</u> stacks with applicable requirements are to be reported in MAERS. Are there any stacks with applicable requirements for emission unit(s) identified in the existing ROP that were <u>not</u> reported in the most recent MAERS reporting year? If <u>Yes</u> , identity the stack(s) that was/were not reported on applicable MAERS form(s). | 🗌 Yes       | 🖾 No |
| E3. Have any emission units identified in the existing ROP been modified or reconstructed that required a PTI?   | 🗌 Yes       | 🛛 No |
| If <u>Yes</u> , complete Part F with the appropriate information.  |             |      |
| E4. Have any emission units identified in the existing ROP been dismantled? If <u>Yes</u> , identify the emission unit(s) and the dismantle date in the comment area below or on an AI-001 Form.   | 🗌 Yes       | 🛛 No |
| E1 – minor edits to FGCAM_UNITS to remove EUs listed in FGMACTEEEEE.<br>E1 – updates to FGMACTEEEEE due to subp. EEEEE updates.  |             |      |
|  |             |      |
|  |             |      |
|  |             |      |
|  |             |      |
|  |             |      |
| Check here if an AI-001 Form is attached to provide more information for Part E. Enter AI-001 Fo   | orm ID: Al· |      |

# PART F: PERMIT TO INSTALL (PTI) INFORMATION

Review all emission units and applicable requirements at the source and answer the following questions as they pertain to <u>all</u> emission units with PTIs. Any PTI(s) identified below must be attached to the application.

|  | ated into the existing                    | where the applicable requirements from the PTI have not ROP? If <u>Yes</u> , complete the following table.   | 🗌 Yes 🛛 No   |  |  |
|--|---|--|--|--|--|
| Permit to Install<br>Number  | Emission<br>Units/Flexible<br>Group ID(s) | Description (Include Process Equipment, Control Devices<br>and Monitoring Devices)   | Date Emission<br>Unit was Installed/<br>Modified/<br>Reconstructed |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
| emission unit<br>affected in the   | s in the existing ROF                     | ange, add, or delete terms/conditions to <b>established</b><br>P? If <u>Yes</u> , identify the emission unit(s) or flexible group(s)<br>ow or on an AI-001 Form and identify all changes, additions,<br>xisting ROP. | 🗌 Yes 🗌 No   |  |  |
| the ROP? If Y  | es, submit the PTIs a                     | entify <b>new emission units</b> that need to be incorporated into<br>as part of the ROP renewal application on an AI-001 Form,<br>s) or flexible group(s) in the mark-up of the existing ROP.                       | 🗌 Yes 🗌 No   |  |  |
| listed above th  | at were <u>not</u> reported               | e requirements for emission unit(s) identified in the PTIs<br>in MAERS for the most recent emissions reporting year? If<br>not reported on the applicable MAERS form(s).   | 🗌 Yes 🗌 No   |  |  |
| or control devi  | ces in the PTIs listed                    | tive changes to any of the emission unit names, descriptions<br>l above for any emission units not already incorporated into<br>nges on an AI-001 Form.  | ☐ Yes ☐ No   |  |  |
| Comments:  |   |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
|  |   |  |  |  |  |
| Check here if an AI-001 Form is attached to provide more information for Part F. Enter AI-001 Form ID: AI- |   |  |  |  |  |

SRN:

### PART G: EMISSION UNITS MEETING THE CRITERIA OF RULES 281(2)(h), 285(2)(r)(iv), 287(2)(c), OR 290

Review all emission units and applicable requirements at the source and answer the following questions.

|  | any new and/or existing emission units which do <u>not</u> already appear in<br>vhich meet the criteria of Rules 281(2)(h), 285(2)(r)(iv), 287(2)(c), or 29 | 90.  |
|--|---|--|
| If <u>Yes</u> , identify the emis                        | ssion units in the table below. If <u>No</u> , go to Part H.  | 🗌 Yes 🛛 No   |
|  | ion units were installed under the same rule above, provide a description tion/modification/reconstruction date for each.                                   | n  |
| Origin of Applicable<br>Requirements                     | Emission Unit Description – Provide Emission Unit ID and a description of Process Equipment, Control Devices and Monitoring Devices                         | Date Emission<br>Unit was Installed/<br>Modified/<br>Reconstructed |
| Rule 281(2)(h) or<br>285(2)(r)(iv)<br>cleaning operation |   |  |
| Rule 287(2)(c)<br>surface coating line                   |   |  |
| Rule 290<br>process with limited<br>emissions            |   |  |
| Comments:  |   |  |
| Check here if an AI-0                                    | 01 Form is attached to provide more information for Part G. Enter AI-00   | 01 Form ID: AI-  |

### PART H: REQUIREMENTS FOR ADDITION OR CHANGE

Complete this part of the application form for all proposed additions, changes or deletions to the existing ROP. This includes state or federal regulations that the source is subject to and that must be incorporated into the ROP or other proposed changes to the existing ROP. **Do not include additions or changes that have already been identified in Parts F or G of this application form.** If additional space is needed copy and complete an additional Part H.

Complete a separate Part H for each emission unit with proposed additions and/or changes.

| H1 | . Are there changes that need to be incorporated into the ROP that have not been identified in Parts F and G? If <u>Yes</u> , answer the questions below.  | 🛛 Yes | 🗌 No  |
|----|--|-------|-------|
| H2 | . Are there any proposed administrative changes to any of the existing emission unit names, descriptions or control devices in the ROP? If <u>Yes</u> , describe the changes in questions H8 – H16 below and in the affected Emission Unit Table(s) in the mark-up of the ROP.   | 🗌 Yes | 🛛 No  |
| H3 | . Does the source propose to add a new emission unit or flexible group to the ROP not previously identified in Parts F or G? If <u>Yes</u> , identify and describe the emission unit name, process description, control device(s), monitoring device(s) and applicable requirements in questions H8 – H16 below and in a new Emission Unit Table in the mark-up of the ROP. See instructions on how to incorporate a new emission unit/flexible group into the ROP.                              | ☐ Yes | No 🛛  |
| H4 | . Does the source propose to add new state or federal regulations to the existing ROP?   | 🗌 Yes | 🛛 No  |
|    | If <u>Yes</u> , on an AI-001 Form, identify each emission unit/flexible group that the new regulation applies to and identify <u>each</u> state or federal regulation that should be added. Also, describe the new requirements in questions H8 – H16 below and add the specific requirements to existing emission units/flexible groups in the mark-up of the ROP, create a new Emission Unit/Flexible Group Table, or add an AQD template table for the specific state or federal requirement. |       |       |
| H5 | . Has a Consent Order/Consent Judgment (CO/CJ) been issued where the requirements were not incorporated into the existing ROP? If <u>Yes</u> , list the CO/CJ number(s) below and add or change the conditions and underlying applicable requirements in the appropriate Emission Unit/Flexible Group Tables in the mark-up of the ROP.  | ☐ Yes | No No |
| H6 | . Does the source propose to add, change and/or delete <b>source-wide</b> requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.  | ☐ Yes | No No |
| H7 | . Are you proposing to <b>streamline</b> any requirements? If <u>Yes</u> , identify the streamlined and subsumed requirements and the EU ID, and provide a justification for streamlining the applicable requirement below.  | Yes   | No    |

# PART H: REQUIREMENTS FOR ADDITION OR CHANGE – (continued)

| H8. Does the source propose to add, change and/or delete <b>emission limit</b> requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.                         | ☐ Yes | No No |
|--|-------|-------|
| H9. Does the source propose to add, change and/or delete <b>material limit</b> requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.                         | ☐ Yes | No 🛛  |
| H10. Does the source propose to add, change and/or delete <b>process/operational restriction</b><br>requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding<br>section of the ROP and provide a justification below. | ☐ Yes | No 🛛  |
| H11.Does the source propose to add, change and/or delete <b>design/equipment parameter</b> requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.             | ☐ Yes | No 🛛  |
| H12.Does the source propose to add, change and/or delete <b>testing/sampling</b> requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.                       | ☐ Yes | No No |
| H13.Does the source propose to add, change and/or delete <b>monitoring/recordkeeping</b><br>requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding<br>section of the ROP and provide a justification below.         | ☐ Yes | ⊠ No  |
| H14.Does the source propose to add, change and/or delete <b>reporting</b> requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.                              | ☐ Yes | No    |

# PART H: REQUIREMENTS FOR ADDITION OR CHANGE – (continued)

| H15.Does the source propose to add, change and/or delete <b>stack/vent restrictions</b> ? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.  | ☐ Yes     | No   |
|--|-----------|------|
| H16.Does the source propose to add, change and/or delete any <b>other</b> requirements? If <u>Yes</u> , identify the addition/change/deletion in a mark-up of the corresponding section of the ROP and provide a justification below.  | 🛛 Yes     | 🗌 No |
| As shown in the attached mark-up, changes are requested for FGCAM_UNITS and FGMACTEEEEE an administrative in nature.   | nd are    |      |
| H17.Does the source propose to add terms and conditions for an alternative operating scenario or intra-facility trading of emissions? If <u>Yes</u> , identify the proposed conditions in a mark-up of the corresponding section of the ROP and provide a justification below. | ☐ Yes     | No   |
| Check here if an AI-001 Form is attached to provide more information for Part H. Enter AI-001 For  | m ID: AI- |      |



Additional Information

# RENEWABLE OPERATING PERMIT APPLICATION AI-001: ADDITIONAL INFORMATION

This information is required by Article II, Chapter 1, part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to obtain a permit required by Part 55 may result in penalties and/or imprisonment. Please type or print clearly. Refer to instructions for additional information to complete this form.

|  | SRN: B2015 | Section Number (if applicable): |
|--|------------|---------------------------------|
| 1. Additional Information ID<br>AI-CAM |            |                                 |
|  |            |                                 |

| 2  | Is This Information Confidential? |  |
|----|-----------------------------------|--|
| ۷. |                                   |  |

🗌 Yes 🖾 No

Please see attachments "WI-EN-03 TRG Air Pollution Control Plan" and "WI-EN-04 TRG Air Pollution Control Plan Supporting Information". These documents include TRG's CAM, O&M, and other operating requirements.

Page

of

### MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY AIR QUALITY DIVISION

EFFECTIVE DATE: May 24, 2019

ISSUED TO

Dock Foundry LLC dba Metal Technologies, Inc. - Three Rivers Gray Iron

State Registration Number (SRN): B2015

LOCATED AT

429 Fourth Street, Three Rivers, Michigan 49093

| RENEWABLE OPER   | ATING PERMIT   |   |                                       |
|--|--|---|---------------------------------------|
| Permit Number:   | MI-ROP-B2015 <mark>-2019</mark>  |   | Commented [DP2]: Update upon approval |
| Expiration Date:   | May 24, 2024   | _ | Commented [DP3]: Update upon approval |
| Administratively Complete RO<br>Due Between <mark>November 24, 202</mark>  |  |   | Commented [DP4]: Update upon approval |
| This Renewable Operating Permit (ROP) is issued in acco<br>55, Air Pollution Control, of the Natural Resources and<br>amended (Act 451). Pursuant to Rule 210(1) of the adn<br>ROP constitutes the permittee's authority to operate the<br>with the general conditions, special conditions and attachm<br>source and all emission units listed in the permit are sub | Environmental Protection Act, 1994 PA 451, as<br>ninistrative rules promulgated under Act 451, this<br>stationary source identified above in accordance<br>nents contained herein. Operation of the stationary |   |                                       |

## regulations pursuant to Act 451 and the federal Clean Air Act.

### SOURCE-WIDE PERMIT TO INSTALL

Permit Number: MI-PTI-B2015-2019

This Permit to Install (PTI) is issued in accordance with and subject to Section 5505(1) of Act 451. Pursuant to Rule 214a of the administrative rules promulgated under Act 451, the terms and conditions herein, identified by the underlying applicable requirement citation of Rule 201(1)(a), constitute a federally enforceable PTI. The PTI terms and conditions do not expire and remain in effect unless the criteria of Rule 201(6) are met. Operation of all emission units identified in the PTI is subject to all applicable future or amended rules and regulations pursuant to Act 451 and the federal Clean Air Act.

Michigan Department of Environmental Quality

Rex Lane, Kalamazoo District Supervisor

Commented [DP5]: Update upon approval

Commented [DP1]: Update upon approval

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### AUTHORITY AND ENFORCEABILITY

For the purpose of this permit, the **permittee** is defined as any person who owns or operates an emission unit at a stationary source for which this permit has been issued. The **department** is defined in Rule 104(d) as the Director of the Michigan Department of Environment, Great Lakes, and Energy (EGLE) or his or her designee.

The permittee shall comply with all specific details in the permit terms and conditions and the cited underlying applicable requirements. All terms and conditions in this ROP are both federally enforceable and state enforceable unless otherwise footnoted. Certain terms and conditions are applicable to most stationary sources for which an ROP has been issued. These general conditions are included in Part A of this ROP. Other terms and conditions may apply to a specific emission unit, several emission units which are represented as a flexible group, or the entire stationary source which is represented as a Source-Wide group. Special conditions are identified in Parts B, C, D and/or the appendices.

In accordance with Rule 213(2)(a), all underlying applicable requirements are identified for each ROP term or condition. All terms and conditions that are included in a PTI are streamlined, subsumed and/or is state-only enforceable will be noted as such.

In accordance with Section 5507 of Act 451, the permittee has included in the ROP application a compliance certification, a schedule of compliance, and a compliance plan. For applicable requirements with which the source is in compliance, the source will continue to comply with these requirements. For applicable requirements with which the source is not in compliance, the source will comply with the detailed schedule of compliance requirements that are incorporated as an appendix in this ROP. Furthermore, for any applicable requirements effective after the date of this ROP, the stationary source will meet the requirements on a timely basis, unless the underlying applicable requirement requires a more detailed schedule of compliance.

Issuance of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.

This permit does not relieve the permittee from any responsibilities or obligations imposed on the permittee, at this source, under Consent Order AQD No. 2018-20, entered on December 20, 2018, between EGLE and the permittee.

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### A. GENERAL CONDITIONS

### **Permit Enforceability**

- All conditions in this permit are both federally enforceable and state enforceable unless otherwise noted. (R 336.1213(5))
- Those conditions that are hereby incorporated in a state-only enforceable Source-Wide PTI pursuant to Rule 201(2)(d) are designated by footnote one. (R 336.1213(5)(a), R 336.1214a(5))
- Those conditions that are hereby incorporated in a federally enforceable Source-Wide PTI pursuant to Rule 201(2)(c) are designated by footnote two. (R 336.1213(5)(b), R 336.1214a(3))

#### **General Provisions**

- The permittee shall comply with all conditions of this ROP. Any ROP noncompliance constitutes a violation of Act 451, and is grounds for enforcement action, for ROP revocation or revision, or for denial of the renewal of the ROP. All terms and conditions of this ROP that are designated as federally enforceable are enforceable by the Administrator of the United States Environmental Protection Agency (USEPA) and by citizens under the provisions of the federal Clean Air Act (CAA). Any terms and conditions based on applicable requirements which are designated as "state-only" are not enforceable by the USEPA or citizens pursuant to the CAA. (R 336.1213(1)(a))
- 2. It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this ROP. (R 336.1213(1)(b))
- 3. This ROP may be modified, revised, or revoked for cause. The filing of a request by the permittee for a permit modification, revision, or termination, or a notification of planned changes or anticipated noncompliance does not stay any ROP term or condition. This does not supersede or affect the ability of the permittee to make changes, at the permittee's own risk, pursuant to Rule 215 and Rule 216. (R 336.1213(1)(c))
- 4. The permittee shall allow the department, or an authorized representative of the department, upon presentation of credentials and other documents as may be required by law and upon stating the authority for and purpose of the investigation, to perform any of the following activities: (R 336.1213(1)(d))
  - a. Enter, at reasonable times, a stationary source or other premises where emissions-related activity is conducted or where records must be kept under the conditions of the ROP.
  - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the ROP.
  - c. Inspect, at reasonable times, any of the following:
    - i. Any stationary source.
    - ii. Any emission unit.
    - iii. Any equipment, including monitoring and air pollution control equipment.
    - iv. Any work practices or operations regulated or required under the ROP.
  - d. As authorized by Section 5526 of Act 451, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the ROP or applicable requirements.
- 5. The permittee shall furnish to the department, within a reasonable time, any information the department may request, in writing, to determine whether cause exists for modifying, revising, or revoking the ROP or to determine compliance with this ROP. Upon request, the permittee shall also furnish to the department copies of any records that are required to be kept as a term or condition of this ROP. For information which is claimed by the permittee to be confidential, consistent with the requirements of the 1976 PA 442, MCL §15.231 et seq., and known as the Freedom of Information Act, the person may also be required to furnish the records directly to the USEPA together with a claim of confidentiality. (R 336.1213(1)(e))

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- A challenge by any person, the Administrator of the USEPA, or the department to a particular condition or a part of this ROP shall not set aside, delay, stay, or in any way affect the applicability or enforceability of any other condition or part of this ROP. (R 336.1213(1)(f))
- 7. The permittee shall pay fees consistent with the fee schedule and requirements pursuant to Section 5522 of Act 451. (R 336.1213(1)(g))
- 8. This ROP does not convey any property rights or any exclusive privilege. (R 336.1213(1)(h))

#### **Equipment & Design**

- 9. Any collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in Rule 370(2).<sup>2</sup> (R 336.1370)
- 10. Any air cleaning device shall be installed, maintained, and operated in a satisfactory manner and in accordance with the Michigan Air Pollution Control rules and existing law. (R 336.1910)

#### **Emission Limits**

- 11. Unless otherwise specified in this ROP, the permittee shall comply with Rule 301, which states, in part, "Except as provided in Subrules 2, 3, and 4 of this rule, a person shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of a density greater than the most stringent of the following:"<sup>2</sup> (R 336.1301(1))
  - a. A 6-minute average of 20% opacity, except for one 6-minute average per hour of not more than 27% opacity.
    b. A limit specified by an applicable federal new source performance standard.

The grading of visible emissions shall be determined in accordance with Rule 303.

- 12. The permittee shall not cause or permit the emission of an air contaminant or water vapor in quantities that cause, alone or in reaction with other air contaminants, either of the following:
  - a. Injurious effects to human health or safety, animal life, plant life of significant economic value, or property.<sup>1</sup> (R 336.1901(a))
  - b. Unreasonable interference with the comfortable enjoyment of life and property.<sup>1</sup> (R 336.1901(b))

### **Testing/Sampling**

- 13. The department may require the owner or operator of any source of an air contaminant to conduct acceptable performance tests, at the owner's or operator's expense, in accordance with Rule 1001 and Rule 1003, under any of the conditions listed in Rule 1001(1).<sup>2</sup> (R 336.2001)
- 14. Any required performance testing shall be conducted in accordance with Rule 1001(2), Rule 1001(3) and Rule 1003. (R 336.2001(2), R 336.2001(3), R 336.2003(1))
- 15. Any required test results shall be submitted to the Air Quality Division (AQD) in the format prescribed by the applicable reference test method within 60 days following the last date of the test. (R 336.2001(5))

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#### Monitoring/Recordkeeping

- 16. Records of any periodic emission or parametric monitoring required in this ROP shall include the following information specified in Rule 213(3)(b)(i), where appropriate: (R 336.1213(3)(b))
  - a. The date, location, time, and method of sampling or measurements.
  - b. The dates the analyses of the samples were performed.
  - c. The company or entity that performed the analyses of the samples.
  - d. The analytical techniques or methods used.
  - e. The results of the analyses.
  - f. The related process operating conditions or parameters that existed at the time of sampling or measurement.
- 17. All required monitoring data, support information and all reports, including reports of all instances of deviation from permit requirements, shall be kept and furnished to the department upon request for a period of not less than 5 years from the date of the monitoring sample, measurement, report or application. Support information includes all calibration and maintenance records and all original strip-chart recordings, or other original data records, for continuous monitoring instrumentation and copies of all reports required by the ROP. (R 336.1213(1)(e), R 336.1213(3)(b)(ii))

#### **Certification & Reporting**

- 18. Except for the alternate certification schedule provided in Rule 213(3)(c)(iii)(B), any document required to be submitted to the department as a term or condition of this ROP shall contain an original certification by a Responsible Official which states that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (R 336.1213(3)(c))
- 19. A Responsible Official shall certify to the appropriate AQD District Office and to the USEPA that the stationary source is and has been in compliance with all terms and conditions contained in the ROP except for deviations that have been or are being reported to the appropriate AQD District Office pursuant to Rule 213(3)(c). This certification shall include all the information specified in Rule 213(4)(c)(i) through (v) and shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. The USEPA address is: USEPA, Air Compliance Data Michigan, Air and Radiation Division, 77 West Jackson Boulevard, Chicago, Illinois 60604-3507. (R 336.1213(4)(c))
- 20. The certification of compliance shall be submitted annually for the term of this ROP as detailed in the special conditions, or more frequently if specified in an applicable requirement or in this ROP. (R 336.1213(4)(c))
- 21. The permittee shall promptly report any deviations from ROP requirements and certify the reports. The prompt reporting of deviations from ROP requirements is defined in Rule 213(3)(c)(ii) as follows, unless otherwise described in this ROP: (R 336.1213(3)(c))
  - a. For deviations that exceed the emissions allowed under the ROP, prompt reporting means reporting consistent with the requirements of Rule 912 as detailed in Condition 25. All reports submitted pursuant to this paragraph shall be promptly certified as specified in Rule 213(3)(c)(iii).
  - b. For deviations which exceed the emissions allowed under the ROP and which are not reported pursuant to Rule 912 due to the duration of the deviation, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe reasons for each deviation and the actions taken to minimize or correct each deviation.
  - c. For deviations that do not exceed the emissions allowed under the ROP, prompt reporting means the reporting of all deviations in the semiannual reports required by Rule 213(3)(c)(i). The report shall describe the reasons for each deviation and the actions taken to minimize or correct each deviation.

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- 22. For reports required pursuant to Rule 213(3)(c)(ii), prompt certification of the reports is described in Rule 213(3)(c)(iii) as either of the following: (R 336.1213(3)(c))
  - a. Submitting a certification by a Responsible Official with each report which states that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
  - b. Submitting, within 30 days following the end of a calendar month during which one or more prompt reports of deviations from the emissions allowed under the ROP were submitted to the department pursuant to Rule 213(3)(c)(ii), a certification by a Responsible Official which states that; "based on information and belief formed after reasonable inquiry, the statements and information contained in each of the reports submitted during the previous month were true, accurate, and complete." The certification shall include a listing of the reports that are being certified. Any report submitted pursuant to Rule 213(3)(c)(ii) that will be certified on a monthly basis pursuant to this paragraph shall include a statement that certification of the report will be provided within 30 days following the end of the calendar month.
- 23. Semiannually for the term of the ROP as detailed in the special conditions, or more frequently if specified, the permittee shall submit certified reports of any required monitoring to the appropriate AQD District Office. All instances of deviations from ROP requirements during the reporting period shall be clearly identified in the reports. (R 336.1213(3)(c)(i))
- 24. On an annual basis, the permittee shall report the actual emissions, or the information necessary to determine the actual emissions, of each regulated air pollutant as defined in Rule 212(6) for each emission unit utilizing the emissions inventory forms provided by the department. (R 336.1212(6))
- 25. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the appropriate AQD District Office. The notice shall be provided not later than two business days after the start-up, shutdown, or discovery of the abnormal conditions or malfunction. Notice shall be by any reasonable means, including electronic, telephonic, or oral communication. Written reports, if required under Rule 912, must be submitted to the appropriate AQD District Supervisor within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal conditions or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5) and shall be certified by a Responsible Official in a manner consistent with the CAA.<sup>2</sup> (R 336.1912)

#### **Permit Shield**

- 26. Compliance with the conditions of the ROP shall be considered compliance with any applicable requirements as of the date of ROP issuance if either of the following provisions is satisfied: (R 336.1213(6)(a)(i), R 336.1213(6)(a)(ii))
  - a. The applicable requirements are included and are specifically identified in the ROP.
  - b. The permit includes a determination or concise summary of the determination by the department that other specifically identified requirements are not applicable to the stationary source.

Any requirements identified in Part E of this ROP have been identified as non-applicable to this ROP and are included in the permit shield.

- 27. Nothing in this ROP shall alter or affect any of the following:
  - a. The provisions of Section 303 of the CAA, emergency orders, including the authority of the USEPA under Section 303 of the CAA. (R 336.1213(6)(b)(i))
  - b. The liability of the owner or operator of this source for any violation of applicable requirements prior to or at the time of this ROP issuance. (R 336.1213(6)(b)(ii))
  - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the CAA. (R 336.1213(6)(b)(iii))

- d. The ability of the USEPA to obtain information from a source pursuant to Section 114 of the CAA. (R 336.1213(6)(b)(iv))
- 28. The permit shield shall not apply to provisions incorporated into this ROP through procedures for any of the following:
  - a. Operational flexibility changes made pursuant to Rule 215. (R 336.1215(5))
  - b. Administrative Amendments made pursuant to Rule 216(1)(a)(i)-(iv). (R 336.1216(1)(b)(iii))
     c. Administrative Amendments made pursuant to Rule 216(1)(a)(v) until the amendment has been approved by the department. (R 336.1216(1)(c)(iii))
  - d. Minor Permit Modifications made pursuant to Rule 216(2). (R 336.1216(2)(f))
  - e. State-Only Modifications made pursuant to Rule 216(4) until the changes have been approved by the department. (R 336.1216(4)(e))
- 29. Expiration of this ROP results in the loss of the permit shield. If a timely and administratively complete application for renewal is submitted not more than 18 months, but not less than 6 months, before the expiration date of the ROP, but the department fails to take final action before the end of the ROP term, the existing ROP does not expire until the renewal is issued or denied, and the permit shield shall extend beyond the original ROP term until the department takes final action. (R 336.1217(1)(c), R 336.1217(1)(a))

#### Revisions

- 30. For changes to any process or process equipment covered by this ROP that do not require a revision of the ROP pursuant to Rule 216, the permittee must comply with Rule 215. (R 336.1215, R 336.1216)
- 31. A change in ownership or operational control of a stationary source covered by this ROP shall be made pursuant to Rule 216(1). (R 336.1219(2))
- 32. For revisions to this ROP, an administratively complete application shall be considered timely if it is received by the department in accordance with the time frames specified in Rule 216. (R 336.1210(10))
- 33. Pursuant to Rule 216(1)(b)(iii), Rule 216(2)(d) and Rule 216(4)(d), after a change has been made, and until the department takes final action, the permittee shall comply with both the applicable requirements governing the change and the ROP terms and conditions proposed in the application for the modification. During this time period, the permittee may choose to not comply with the existing ROP terms and conditions proposed in the application seeks to change. However, if the permittee fails to comply with the ROP are enforceable. (R 336.1216(1)(c)(iii), R 336.1216(2)(d), R 336.1216(4)(d))

#### Reopenings

- 34. A ROP shall be reopened by the department prior to the expiration date and revised by the department under any of the following circumstances:
  - a. If additional requirements become applicable to this stationary source with three or more years remaining in the term of the ROP, but not if the effective date of the new applicable requirement is later than the ROP expiration date. (R 336.1217(2)(a)(i))
  - b. If additional requirements pursuant to Title IV of the CAA become applicable to this stationary source. (R 336.1217(2)(a)(ii))
  - c. If the department determines that the ROP contains a material mistake, information required by any applicable requirement was omitted, or inaccurate statements were made in establishing emission limits or the terms or conditions of the ROP. (R 336.1217(2)(a)(iii))
  - d. If the department determines that the ROP must be revised to ensure compliance with the applicable requirements. (R 336.1217(2)(a)(iv))

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#### Renewals

35. For renewal of this ROP, an administratively complete application shall be considered timely if it is received by the department not more than 18 months, but not less than 6 months, before the expiration date of the ROP. (R 336.1210(9))

#### Stratospheric Ozone Protection

- 36. If the permittee is subject to Title 40 of the Code of Federal Regulations (CFR), Part 82 and services, maintains, or repairs appliances except for motor vehicle air conditioners (MVAC), or disposes of appliances containing refrigerant, including MVAC and small appliances, or if the permittee is a refrigerant reclaimer, appliance owner or a manufacturer of appliances or recycling and recovery equipment, the permittee shall comply with all applicable standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F.
- 37. If the permittee is subject to 40 CFR Part 82 and performs a service on motor (fleet) vehicles when this service involves refrigerant in the MVAC, the permittee is subject to all the applicable requirements as specified in 40 CFR Part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed by the original equipment manufacturer. The term MVAC as used in Subpart B does not include the air-tight sealed refrigeration system used for refrigerated cargo or an air conditioning system on passenger buses using Hydrochlorofluorocarbon-22 refrigerant.

#### **Risk Management Plan**

- 38. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall register and submit to the USEPA the required data related to the risk management plan for reducing the probability of accidental releases of any regulated substances listed pursuant to Section 112(r)(3) of the CAA as amended in 40 CFR 68.130. The list of substances, threshold quantities, and accident prevention regulations promulgated under 40 CFR Part 68, do not limit in any way the general duty provisions under Section 112(r)(1).
- 39. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall comply with the requirements of 40 CFR Part 68, no later than the latest of the following dates as provided in 40 CFR 68.10(a):
  - a. June 21, 1999,
  - b. Three years after the date on which a regulated substance is first listed under 40 CFR 68.130, or
  - c. The date on which a regulated substance is first present above a threshold quantity in a process.
- 40. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall submit any additional relevant information requested by any regulatory agency necessary to ensure compliance with the requirements of 40 CFR Part 68.
- 41. If subject to Section 112(r) of the CAA and 40 CFR Part 68, the permittee shall annually certify compliance with all applicable requirements of Section 112(r) as detailed in Rule 213(4)(c)). (40 CFR Part 68)

#### **Emission Trading**

42. Emission averaging and emission reduction credit trading are allowed pursuant to any applicable interstate or regional emission trading program that has been approved by the Administrator of the USEPA as a part of Michigan's State Implementation Plan. Such activities must comply with Rule 215 and Rule 216. (R 336.1213(12))

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### Permit to Install (PTI)

- 43. The process or process equipment included in this permit shall not be reconstructed, relocated, or modified unless a PTI authorizing such action is issued by the department, except to the extent such action is exempt from the PTI requirements by any applicable rule.<sup>2</sup> (R 336.1201(1))
- 44. The department may, after notice and opportunity for a hearing, revoke PTI terms or conditions if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of the PTI or is violating the department's rules or the CAA.<sup>2</sup> (R 336.1201(8), Section 5510 of Act 451)
- 45. The terms and conditions of a PTI shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by the PTI. If a new owner or operator submits a written request to the department pursuant to Rule 219 and the department approves the request, this PTI will be amended to reflect the change of ownership or operational control. The request must include all of the information required by Subrules (1)(a), (b) and (c) of Rule 219. The written request shall be sent to the appropriate AQD District Supervisor, EGLE.<sup>2</sup> (R 336.1219)
- 46. If the installation, reconstruction, relocation, or modification of the equipment for which PTI terms and conditions have been approved has not commenced within 18 months of the original PTI issuance date, or has been interrupted for 18 months, the applicable terms and conditions from that PTI, as incorporated into the ROP, shall become void unless otherwise authorized by the department. Furthermore, the person to whom that PTI was issued, or the designated authorized agent, shall notify the department via the Supervisor, Permit Section, EGLE, AQD, P.O. Box 30260, Lansing, Michigan 48909, if it is decided not to pursue the installation, reconstruction, relocation, or modification of the equipment allowed by the terms and conditions from that PTI.<sup>2</sup> (R 336.1201(4))

#### Footnotes:

<sup>1</sup>This condition is state-only enforceable and was established pursuant to Rule 201(1)(b). <sup>2</sup>This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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### **B. SOURCE-WIDE CONDITIONS**

Part B outlines the Source-Wide Terms and Conditions that apply to this stationary source. The permittee is subject to these special conditions for the stationary source in addition to the general conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply to this source, NA (not applicable) has been used in the table. If there are no Source-Wide Conditions, this section will be left blank.

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### C. EMISSION UNIT SPECIAL CONDITIONS

Part C outlines terms and conditions that are specific to individual emission units listed in the Emission Unit Summary Table. The permittee is subject to the special conditions for each emission unit in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA has been used in the table. If there are no conditions specific to individual emission units, this section will be left blank.

### **EMISSION UNIT SUMMARY TABLE**

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

| Emission Unit ID | Emission Unit Description<br>(Including Process Equipment & Control<br>Device(s))   | Installation<br>Date/<br>Modification Date           | Flexible Group ID                        |
|------------------|---|--|--|
| EUVANETTA        | Charge drying system (scrap<br>dryer/preheater).  | 04-01-1982<br>10-09-2006                             | FGMACTEEEEE<br>FGGRAYIRON<br>FGCAM_UNITS |
| EUBBFURN1        | Brown Boveri, Model IT7P induction<br>melting furnace; includes furnace<br>charging, melting and tapping.   | 07-05-1988<br>06-15-1995                             | FGMACTEEEEE<br>FGGRAYIRON<br>FGCAM_UNITS |
| EUBBFURN2        | Brown Boveri, Model IT7P induction<br>melting furnace; includes furnace<br>charging, melting and tapping.   | 07-05-1988<br>06-15-1995                             | FGMACTEEEEE<br>FGGRAYIRON<br>FGCAM_UNITS |
| EUBBFURN3        | Brown Boveri, Model IT7P induction<br>melting furnace; includes furnace<br>charging, melting and tapping.   | 07-05-1988<br>06-15-1995                             | FGMACTEEEEE<br>FGGRAYIRON<br>FGCAM_UNITS |
| EUBBFURN4        | Brown Boveri, Model IT7P induction<br>melting furnace; includes furnace<br>charging, melting and tapping.   | 07-05-1988<br>06-15-1995                             | FGMACTEEEEE<br>FGGRAYIRON<br>FGCAM_UNITS |
| EUMOLDCOOLING1   | Mold cooling process.   | 04-01-1982<br>no modifications                       | FGMOLDCOOLING                            |
| EUMOLDCOOLING2   | Mold cooling process.   | 04-01-1982<br>no modifications                       | FGMOLDCOOLING                            |
| EUMOLDCOOLING3   | Mold cooling process.   | 04-01-1982<br>no modifications                       | FGMOLDCOOLING                            |
| EUMOLDCOOLING4   | Mold cooling process.   | 04-01-1982<br>no modifications                       | FGMOLDCOOLING                            |
| EUSHAKEOUT       | Shakeout machine and associated<br>equipment that separate iron castings to<br>casting transfer, sand to the sand<br>system, and sprue to the scrap bay.<br>Controlled by the 2014 North Dustar<br>Baghouse (PTI No. 137-14). | 06-06-1992<br>01-05-1994<br>12-18-2007<br>11-27-2014 | FGCAM_UNITS                              |
| EUSAND1          | Conveyors, shot sand reclaim drum<br>magnet, elevators, screens, silos,<br>hoppers, and mullers that transfer sand<br>from the shakeout process to the mold<br>machines.  | 12-22-1993<br>01-05-1994                             | FGEWFULLER<br>FGCAM_UNITS                |
| EUSAND2          | Conveyors, elevators, screens, silos, and<br>hoppers that transfer sand from the<br>shakeout process to the mold machines.  | 08-01-1993<br>01-01-1994<br>10-09-2006               | FGWDUSTAR<br>FGCAM_UNITS                 |

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| Emission Unit ID | Emission Unit Description<br>(Including Process Equipment & Control<br>Device(s))                                       | Installation<br>Date/<br>Modification Date | Flexible Group ID         |
|------------------|---|--|---------------------------|
| EUCASTTRANSFER1  | Accumulates and transfers castings to the cleaning stations.  | 12-22-1993<br>01-05-1994                   | FGEWFULLER<br>FGCAM_UNITS |
| EUCASTTRANSFER2  | Accumulates and transfers castings to the cleaning stations.  | 08-01-1993<br>01-01-1994<br>10-09-2006     | FGWDUSTAR<br>FGCAM_UNITS  |
| EUBLAST1         | Iron castings are cleaned in a wheelabrator shotblasting machine.   | 01-02-1986<br>04-02-1986<br>10-09-2006     | FGCLEANING<br>FGCAM_UNITS |
| EUBLAST2         | Iron castings are cleaned in a wheelabrator shotblasting machine.   | 01-02-1986<br>04-02-1986<br>10-09-2006     | FGCLEANING<br>FGCAM_UNITS |
| EUBLAST3         | Iron castings are cleaned in a wheelabrator shotblasting machine.   | 01-02-1986<br>04-02-1986<br>10-09-2006     | FGCLEANING<br>FGCAM_UNITS |
| EUBLAST4         | Iron castings are cleaned in a<br>wheelabrator shotblasting machine.  | 04-01-2002<br>10-09-2006                   | FGCLEANING<br>FGCAM_UNITS |
| EUEMERGEN        | An existing diesel 250HP John Deere<br>engine that powers a 150KW Kohler<br>generator used for emergency power<br>only. | 03-15-1998                                 | NA                        |

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### EUSHAKEOUT EMISSION UNIT CONDITIONS

### DESCRIPTION

Shakeout machine and associated equipment that separate iron castings to casting transfer, sand to the sand system, and sprue to the scrap bay. Controlled by the 2014 North Dustar Baghouse (PTI No. 137-14).

### Flexible Group ID: FGCAM\_UNITS

### POLLUTION CONTROL EQUIPMENT

2014 North Dustar baghouse

### I. EMISSION LIMIT(S)

| Pollutant      | Limit   | Time Period/ Operating<br>Scenario | Equipment                    | Monitoring/<br>Testing Method | Underlying<br>Applicable<br>Requirements |
|----------------|---|------------------------------------|------------------------------|-------------------------------|--|
| 1. Particulate | 0.04 pound per<br>1,000 pounds<br>of exhaust<br>gases,<br>calculated on a<br>dry gas basis <sup>2</sup> |                                    | EUSHAKEOUT                   | SC V.1                        | R 336.1331(1)(c)                         |
| 2. Particulate | 11.9 pounds<br>per hour <sup>2</sup>  | Hourly                             | EUSHAKEOUT                   | SC V.1                        | R 336.1331(1)(c)                         |
| 3. Opacity     | 5% opacity <sup>2</sup>   | 6-minute average                   | Stack listed in<br>SC VIII.1 | SC VI.1                       | R 336.1301(1)(c)                         |

### II. MATERIAL LIMIT(S)

NA

### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

### IV. DESIGN/EQUIPMENT PARAMETER(S)

- 1. The permittee shall not operate EUSHAKEOUT unless the baghouse is installed, maintained, and operated in a satisfactory manner.<sup>2</sup> (R 336.1205, R 336.1331, R 336.1910, R 336.2803, R 336.2804)
- 2. The permittee shall equip and maintain the baghouse with a gauge which measures the pressure drop across the baghouse.<sup>2</sup> (R 336.1201(3))

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#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

 The permittee shall verify PM, PM10 and PM2.5 emission rates from EUSHAKEOUT by testing at owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in:

| Pollutant  | Test Method Reference   |
|------------|---|
| PM         | 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules |
| PM10/PM2.5 | 40 CFR Part 51, Appendix M  |

An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)

- The permittee shall verify the PM, PM10 and PM2.5 emission rates from EUSHAKEOUT, at a minimum, every five years from the date of the last test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)
- 3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted. (R 336.1213(3))

### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- 1. Daily check for visible emissions. The results shall be recorded in the maintenance log. (R 336.1213(3)(b)(ii))
- The baghouse pressure differential shall be recorded at least once each day in the maintenance log. (R 336.1213(3)(b)(ii))
- 3. The permittee shall implement and maintain a preventative maintenance program for the baghouse in accordance with manufacturer recommendations. Baghouse preventative maintenance activities shall be recorded in the maintenance log. (R 336.1213(3)(b)(iii))
- 4. The permittee shall perform quarterly inspection of the baghouse with a fluorescent detection device and record results in the maintenance log. (R 336.1213(3)(b)(ii))
- 5. The permittee shall keep the following information for 2014 North Dustar baghouse/EUSHAKEOUT on a monthly and calendar year basis:
  - a. Hours of operation.
  - b. Calculations of the emissions of PM, PM 10, and PM 2.5 from EUSHAKEOUT determining the emission rate in tons per calendar month and tons per 12 month rolling time period.

These records are required for a minimum period of 10 years after the installation of the 2014 North Dustar baghouse. The permittee shall keep the records on file at the facility, in a format acceptable to the AQD District Supervisor, and make them available to the Department upon request.<sup>2</sup> (**R 336.2802, R 336.2818(3)(c)**)

See Appendices 3 and 9

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### VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- 4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))

#### See Appendix 8

### VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

|    | Stack & Vent ID | Maximum Exhaust<br>Diameter /<br>Dimensions<br>(inches) | Minimum Height<br>Above Ground<br>(feet) | Underlying Applicable<br>Requirements |
|----|-----------------|---|--|---------------------------------------|
| 1. | SV2014NDUSTAR   | 60 <sup>2</sup>   | 48 <sup>2</sup>                          | R 336.1201(3)                         |

### IX. OTHER REQUIREMENT(S)

NA

#### Footnotes:

<sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

<sup>2</sup> This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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### EUEMERGEN EMISSION UNIT CONDITIONS

### DESCRIPTION

An existing diesel 250HP John Deere engine that powers a 150KW Kohler generator used for emergency power only.

#### Flexible Group ID: NA

### POLLUTION CONTROL EQUIPMENT

NA

### I. EMISSION LIMIT(S)

NA

### II. MATERIAL LIMIT(S)

NA

### III. PROCESS/OPERATIONAL RESTRICTION(S)

- The EUEMERGEN shall be installed, maintained, and operated in a satisfactory manner. A list of recommended work practice standards as specified in 40 CFR 63.6602 and Table 2c, Item 1 or the permittee may petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices. The following are the recommended work practices specified in 40 CFR Part 63, Subpart ZZZZ, Table 2c:
  - a. Change oil and filter every 500 hours of operation or annually, whichever comes first, except as allowed in SC III.3.
  - b. Inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first.
  - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

If EUEMERGEN is being operated during an emergency and it is not possible to shut down the engine to perform the work practice standards on the schedule required, the work practice standard can be delayed until the emergency is over. The work practice should be performed as soon as practicable after the emergency has ended or the unacceptable risk under Federal, State or local law has been abated. Sources must report any failure to perform the work practice on the schedule required and the Federal, State or local law or which the risk was deemed unacceptable. (40 CFR 63.6602, 40 CFR Part 63, Subpart ZZZ, Table 2c, Item 1)

- The permittee shall operate EUEMERGEN in compliance with the emission limitations and operating limitations in this subpart. EUEMERGEN must be operated and maintained at any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. (40 CFR 63.6605)
- 3. The permittee may utilize an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency as oil changes are required. The oil analysis program must analyze the parameters and keep records as required in 40 CFR 63.6625(i). (40 CFR 63.6625(i))
- The permittee shall maintain and operate EUEMERGEN per the manufacturer's emission related written instructions or develop a maintenance plan which must provide for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions. (40 CFR 63.6625(e), 40 CFR 63.6640(a), 40 CFR Part 63, Subpart ZZZZ, Table 6, Item 9)

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- 5. The permittee shall minimize the time spent at idle during startup and minimize the startup time of EUEMERGEN to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply. (40 CFR 63.6625(h))
- 6. The permittee shall not exceed 100 hours per year for maintenance checks and readiness testing. The permittee may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year. (40 CFR 63.6640(f)(ii))
- The permittee may operate EUEMERGEN for non-emergency situations for up to 50 hours per year as allowed in 40 CFR 63.6640 (f)(iii). (40 CFR 63.6640(f)(iii))

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain with a non-resettable hour meter to track the number of hours EUEMERGEN operates. (40 CFR 63.6625(f))

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

1. If using an oil analysis program, testing required, analysis of Total Base Number, Viscosity, and percent water. (40 CFR 63.6625(i))

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- For EUEMERGEN, the permittee shall keep in a satisfactory manner, records of the occurrence and duration of each malfunction of operation or the air pollution control monitoring equipment. The permittee shall keep all records on file and make them available to the department upon request. (40 CFR 63.6655(a)(2), 40 CFR 63.6660)
- For EUEMERGEN, the permittee shall keep in a satisfactory manner, records of actions taken during periods of malfunction to minimize emissions, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation. The permittee shall keep all records on file and make them available to the department upon request. (40 CFR 63.6655(a)(5), 40 CFR 63.6660)
- 3. For EUEMERGEN, the permittee shall keep in a satisfactory manner, records to demonstrate continuous compliance with operating limitations in SC III.1. The permittee shall keep all records on file and make them available to the department upon request. (40 CFR 63.6655(d), 40 CFR 63.6660)
- 4. For EUEMERGEN, the permittee shall keep in a satisfactory manner, records of the maintenance conducted to demonstrate the engine and after-treatment control device (if any) were operated and maintained according to the developed maintenance plan. The permittee shall keep all records on file and make them available to the department upon request. (40 CFR 63.6655(e), 40 CFR 63.6660)
- 5. For EUEMERGEN, the permittee shall keep in a satisfactory manner, records of hours of operation recorded through the non-resettable hour meter. The permittee shall document how many hours were spent during emergency operation and how many hours were spent during non-emergency operation. If the engines were used for demand response operation, the permittee shall keep records of the notification of the emergency situation and the time the engine was operated as part of demand response. The permittee shall keep all records on file and make them available to the department upon request. (40 CFR 63.6655(f), 40 CFR 63.6660)

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### VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall 2. be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- 3. Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))

### See Appendix 8

### VIII. STACK/VENT RESTRICTION(S)

NA

#### IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart ZZZZ, for Stationary Reciprocating Internal Combustion Engines. (40 CFR 63.6595(a)(1), 40 CFR Part 63, Subparts A and ZZZZ)

Footnotes: <sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b). <sup>2</sup> This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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### D. FLEXIBLE GROUP SPECIAL CONDITIONS

Part D outlines the terms and conditions that apply to more than one emission unit. The permittee is subject to the special conditions for each flexible group in addition to the General Conditions in Part A and any other terms and conditions contained in this ROP.

The permittee shall comply with all specific details in the special conditions and the underlying applicable requirements cited. If a specific condition type does not apply, NA has been used in the table. If there are no special conditions that apply to more than one emission unit, this section will be left blank.

### FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

| Flexible Group ID | Flexible Group Description   | Associated<br>Emission Unit IDs   |
|-------------------|--|---|
| FGGRAYIRON        | Metal preheating, charge unloading, melting, and pouring.  | EUVANETTA<br>EUBBFURN1<br>EUBBFURN2<br>EUBBFURN3<br>EUBBFURN4   |
| FGMOLDCOOLING     | Mold cooling lines.  | EUMOLDCOOLING1<br>EUMOLDCOOLING2<br>EUMOLDCOOLING3<br>EUMOLDCOOLING4  |
| FGEWFULLER        | Casting accumulator, transfer, shot sand reclaim drum magnet, sand screens, and separators.  | EUSAND1<br>EUCASTTRANSFER1  |
| FGWDUSTAR         | Sand system conveyors, mullers, didion and flat deck, and vibratory shakeout unit for sand separation.   | EUSAND2<br>EUCASTTRANSFER2  |
| FGCLEANING        | Iron castings are cleaned in shotblast machines.   | EUBLAST1<br>EUBLAST2<br>EUBLAST3<br>EUBLAST4  |
| FGCAM_UNITS       | This flexible group consists of emission units that use a control device to achieve compliance with a federally enforceable emission limitation or standard for particulate matter. The emission units have potential pre-control emissions, which are over 100 percent of the major source threshold amount (at a level considered to be major under the ROP program) for particulate matter. | EUSHAKEOUT<br>EUSAND1<br>EUCASTTRANSFER1<br>EUVANETTA<br>EUBBFURN1<br>EUBBFURN2<br>EUBBFURN3<br>EUBBFURN4<br>EUSAND2<br>EUCASTTRANSFER2<br>EUBLAST1<br>EUBLAST2<br>EUBLAST3<br>EUBLAST4 |

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| Flexible Group ID | Flexible Group Description   | Associated<br>Emission Unit IDs                               |
|-------------------|--|---|
| FGMACTEEEEE       | The affected source is a new or existing iron and steel<br>foundry, that is (or is part of) a major source of HAP<br>emissions. An existing affected source is a source that<br>commences construction or reconstruction before<br>December 23, 2002. A new affected source is a<br>source that commences construction or reconstruction<br>on or after December 23, 2002. The regulations cover<br>emissions from metal melting furnaces, scrap<br>preheaters, new pouring areas, pouring stations, new<br>automated conveyor and new pallet cooling lines, new<br>automated shakeout lines, mold and core making lines,<br>and fugitive emissions from foundry operations. | EUVANETTA<br>EUBBFURN1<br>EUBBFURN2<br>EUBBFURN3<br>EUBBFURN4 |

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## FGGRAYIRON FLEXIBLE GROUP CONDITIONS

### DESCRIPTION

Metal preheating, charge unloading, melting and pouring.

Emission Units: EUVANETTA, EUBBFURN1, EUBBFURN2, EUBBFURN3, EUBBFURN4

#### POLLUTION CONTROL EQUIPMENT

Pulse jet baghouse (South Fuller), reverse air (small Dustar) baghouse and South ETA pulse jet baghouse

#### I. EMISSION LIMIT(S)

| Pollutant      | Limit   | Time Period/ Operating<br>Scenario | Equipment                       | Monitoring/<br>Testing Method | Underlying<br>Applicable<br>Requirements |
|----------------|---|------------------------------------|---------------------------------|-------------------------------|--|
| 1. Particulate | 0.01 pound per<br>1,000 pounds<br>of exhaust<br>gases,<br>calculated on a<br>dry gas basis <sup>2</sup> |                                    | FGGRAYIRON                      | SC V.1                        | R 336.1331(1)(c)<br>R 336.1205           |
| 2. Particulate | 1.7 pounds per<br>hour <sup>2</sup>   | Hourly                             | FGGRAYIRON                      | SC V.1                        | R 336.1331(1)(c)                         |
| 3. Particulate | 0.10 pound per<br>1,000 pounds<br>of exhaust<br>gases,<br>calculated on a<br>dry gas basis              |                                    | South ETA pulse jet<br>baghouse | SC V.1                        | R 336.1331(1)(a)<br>Table 31 (J)         |

### II. MATERIAL LIMIT(S)

|    | Material | Limit | Time Period/ Operating<br>Scenario   | Equipment  | Monitoring/<br>Testing Method | Underlying<br>Applicable<br>Requirements |  |
|----|----------|-------|--|------------|-------------------------------|--|--|
| 1. | Iron     |       | 12-month rolling time<br>period, as determined at<br>the end of each calendar<br>month | FGGRAYIRON | SC VI.1                       | R 336.1201(3)                            |  |

### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

### IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

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#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- 1. The permittee shall verify particulate emission rates from FGGRAYIRON and South ETA baghouse by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)
- 2. The permittee shall verify the particulate emission rates from FGGRAYIRON and South ETA baghouse, at a minimum, every five years from the date of the last test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)
- 3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted. (R 336.1213(3))

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- 1. The permittee shall maintain a written record of the amount of iron processed through FGGRAYIRON on a monthly basis.<sup>2</sup> (R 336.1201(3))
- 2. Daily check for visible emissions. The results shall be recorded in the maintenance log. (R 336.1213(3)(a)(ii))
- 3. The permittee shall equip the baghouse dust collector system that serves FGGRAYIRON with a static pressure drop monitoring device and be operated to comply with permit allowable PM-10 emission.<sup>2</sup> (R 336.1201(3))
- 4. The permittee shall maintain the static pressure drop across the baghouse according to manufacturer specifications and record results in the maintenance log.<sup>2</sup> (R 336.1201(3))
- 5. The permittee shall perform quarterly inspection of the baghouse with a fluorescent detection device and record results in the maintenance log. (R 336.1213(3)(a)(ii))
- 6. The permittee shall implement and maintain a preventative maintenance program for the South ETA baghouse in accordance with manufacturer recommendations. Baghouse preventative maintenance activities shall be recorded in the maintenance log. (R 336.1213(3)(b)(iii))

#### See Appendices 3 and 9

#### VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))

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#### See Appendix 8

### VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

|    | Stack & Vent ID | Maximum Exhaust<br>Diameter /<br>Dimensions<br>(inches) | Minimum Height<br>Above Ground<br>(feet) | Underlying Applicable<br>Requirements |  |
|----|-----------------|---|--|---------------------------------------|--|
| 1. | SV84-951        | 52 <sup>2</sup>   | 48 <sup>2</sup>                          | R 336.1201(3)                         |  |
| 2. | SVSouthETA      | 62  | 60                                       | R 336.1213(2)                         |  |

### IX. OTHER REQUIREMENT(S)

NA

**<u>Footnotes</u>:** <sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b). <sup>2</sup> This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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## FGMOLDCOOLING FLEXIBLE GROUP CONDITIONS

#### DESCRIPTION

Mold cooling lines.

Emission Units: EUMOLDCOOLING1, EUMOLDCOOLING2, EUMOLDCOOLING3, EUMOLDCOOLING4

#### POLLUTION CONTROL EQUIPMENT

NA

#### I. EMISSION LIMIT(S)

| Pollutant      | Limit  | Time Period/ Operating<br>Scenario | Equipment     | Monitoring/<br>Testing Method | Underlying<br>Applicable<br>Requirements |
|----------------|--|------------------------------------|---------------|-------------------------------|--|
| 1. Particulate | 0.10 pounds<br>per 1,000<br>pounds of<br>exhaust gases,<br>calculated on a<br>dry gas basis. |                                    | FGMOLDCOOLING | SC V.1                        | R336.1331(1)(a)<br>Table 31 (J)          |

#### II. MATERIAL LIMIT(S)

NA

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- 1. The permittee shall verify particulate emission rates from FGMOLDCOOLING by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)
- 2. The permittee shall verify the particulate emission rates from FGMOLDCOOLING, at a minimum, every five years from the date of the last test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)
- 3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted. (R 336.1213(3))

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#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

1. Daily non-certified visible emission checks. The results shall be recorded in the maintenance log. (R 336.1213(3)(a)(ii))

#### See Appendix 3

#### VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- 4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))

#### See Appendix 8

#### VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

| Stack & Vent ID | Maximum<br>Exhaust Diameter<br>/ Dimensions<br>(inches) | Minimum Height<br>Above Ground<br>(feet) | Underlying Applicable<br>Requirements |
|-----------------|---|--|---------------------------------------|
| 1. SVCOOLING1   | 27 <sup>2</sup>   | 48.25 <sup>2</sup>                       | R 336.1201(3)                         |
| 2. SVCOOLING2   | 27 <sup>2</sup>   | 49.17 <sup>2</sup>                       | R 336.1201(3)                         |
| 3. SVCOOLING3   | 27 <sup>2</sup>   | 47.83 <sup>2</sup>                       | R 336.1201(3)                         |
| 4. SVCOOLING4   | 27 <sup>2</sup>   | 47.42 <sup>2</sup>                       | R 336.1201(3)                         |

#### IX. OTHER REQUIREMENT(S)

NA

#### Footnotes:

<sup>1</sup>This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

<sup>2</sup> This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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## FGEWFULLER FLEXIBLE GROUP CONDITIONS

#### DESCRIPTION

Casting accumulator, transfer, shot sand reclaim drum magnet, sand screens and separators.

Emission Units: EUSAND1, EUCASTTRANSFER1

#### POLLUTION CONTROL EQUIPMENT

Baghouses: East and West Fuller

#### I. EMISSION LIMIT(S)

| Pollutant      | Limit  | Time Period/ Operating<br>Scenario | Equipment  | Monitoring/<br>Testing Method | Underlying<br>Applicable<br>Requirements |
|----------------|--|------------------------------------|------------|-------------------------------|--|
| 1. Particulate | 0.04 pounds<br>per 1,000<br>pounds of<br>exhaust gas,<br>calculated on a<br>dry gas basis <sup>2</sup> |                                    | FGEWFULLER | SC V.1                        | R336.1331(1)(c)<br>R 336.1205            |
| 2. Particulate | 15.8 pounds<br>per hour <sup>2</sup>   | Hourly                             | FGEWFULLER | SC V.1                        | R336.1331(1)(c)                          |
| 3. Opacity     | 5 percent <sup>2</sup>   | 6-minute average                   | FGEWFULLER | SC VI.1                       | R336.1301(1)(c)                          |

### II. MATERIAL LIMIT(S)

NA

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain each baghouse with a gauge that measures the pressure drop across the baghouse.<sup>2</sup> (R 336.1201(3))

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

 The permittee shall verify particulate emission rates from FGEWFULLER by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)

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- 2. The permittee shall verify the particulate emission rates from FGEWFULLER, at a minimum, every five years from the date of the last test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)
- 3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted. (R 336.1213(3))

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- 1. Daily check for visible emissions. The results shall be recorded in the maintenance log. (R 336.1213(3)(a)(ii))
- 2. The baghouse pressure differential shall be recorded at least once each day in the maintenance log. (R 336.213(3)(a)(iii))
- 3. The permittee shall implement and maintain a preventative maintenance program for the baghouse in accordance with manufacturer recommendations. Baghouse preventative maintenance activities shall be recorded in the maintenance log. (R 336.1213(3)(a)(iii))
- 4. The permittee shall perform quarterly inspection of the baghouse with a fluorescent detection device and record results in the maintenance log. (R 336.1213(3)(a)(ii))

#### See Appendices 3 and 9

#### VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))

#### See Appendix 8

#### VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

| Stack & Vent ID | Maximum Exhaust<br>Diameter /<br>Dimensions<br>(inches) | Minimum Height<br>Above Ground<br>(feet) | Underlying Applicable<br>Requirements |
|-----------------|---|--|---------------------------------------|
| 1. SV1152-913   | 78 <sup>2</sup>   | 40.1 <sup>2</sup>                        | R 336.1201(3)                         |

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## IX. OTHER REQUIREMENT(S)

NA

<u>Footnotes:</u> <sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b). <sup>2</sup> This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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## FGWDUSTAR FLEXIBLE GROUP CONDITIONS

#### DESCRIPTION

Sand system conveyors, mullers, didion and flat deck, and vibratory shakeout unit for sand separation.

Emission Units: EUSAND2, EUCASTTRANSFER2

#### POLLUTION CONTROL EQUIPMENT

Reverse air west Dustar baghouse

#### I. EMISSION LIMIT(S)

| Pollutant      | Limit  | Time Period/ Operating<br>Scenario | Equipment | Monitoring/<br>Testing Method | Underlying<br>Applicable<br>Requirements |
|----------------|--|------------------------------------|-----------|-------------------------------|--|
| 1. Particulate | 13.5 pounds per<br>hour. <sup>2</sup>  | Hourly                             | FGWDUSTAR | SC V.1                        | R336.1331(1)(c)                          |
| 2. Particulate | 0.02 pounds per<br>1,000 pounds of<br>exhaust gases,<br>calculated on a<br>dry gas basis. <sup>2</sup> | Hourly                             | FGWDUSTAR | SC V.1                        | R336.1331(1)(c)                          |
| 3. Opacity     | 5% opacity <sup>2</sup>  | 6-minute average                   | FGWDUSTAR | SC VI.1                       | R336.1301(1)(c)                          |

#### II. MATERIAL LIMIT(S)

NA

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

1. The permittee shall equip and maintain the baghouse with a differential pressure gauge. (R 336.1301(1)(c))

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- The permittee shall verify particulate emission rates from FGWDUSTAR by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)
- 2. The permittee shall verify the particulate emission rates from FGWDUSTAR, at a minimum, every five years from the date of the last test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)

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3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted. (**R 336.1213(3**))

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- 1. Daily checks for visible emissions. The results shall be reported in the maintenance log. (R 336.1213(3)(a)(ii))
- 2. The baghouse pressure differential shall be recorded at least once each day in the maintenance log. R 336.1213(3)(a)(ii))
- The permittee shall implement and maintain a preventative maintenance program for the baghouse in accordance with manufacturer recommendations. Baghouse preventative maintenance activities shall be recorded in the maintenance log. (R 336.1213(3)(a)(iii))
- 4. The permittee shall perform quarterly inspection of the baghouse with a fluorescent detection device and record results in the maintenance log. (R 336.1213(3)(a)(ii))

#### See Appendices 3 and 9

#### VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- 4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))

#### See Appendix 8

#### VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

| Stack & Vent ID | Maximum Exhaust<br>Diameter /<br>Dimensions<br>(inches) | Minimum<br>Height Above<br>Ground<br>(feet) | Underlying Applicable<br>Requirements |
|-----------------|---|---|---------------------------------------|
| 1. SV565-932    | 78 <sup>2</sup>   | 62 <sup>2</sup>                             | R 336.1201(3)                         |

#### IX. OTHER REQUIREMENT(S)

NA

#### Footnotes:

<sup>1</sup>This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

<sup>2</sup> This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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## FGCLEANING FLEXIBLE GROUP CONDITIONS

#### DESCRIPTION

Iron castings are cleaned in shotblast machines.

Emission Units: EUBLAST1, EUBLAST2, EUBLAST3, EUBLAST4

### POLLUTION CONTROL EQUIPMENT

Pulse jet baghouse (North Fuller)

#### I. EMISSION LIMIT(S)

| Pollutant      | Limit   | Time Period/ Operating<br>Scenario | Equipment  | Monitoring/<br>Testing Method | Underlying<br>Applicable<br>Requirements |
|----------------|---|------------------------------------|------------|-------------------------------|--|
| 1. Particulate | 0.02 pounds<br>per 1,000<br>pounds exhaust<br>gas, calculated<br>on a dry gas<br>basis <sup>2</sup> |                                    | FGCLEANING | SC V.1                        | R 336.1331(1)(c)<br>R 336.1205           |

#### II. MATERIAL LIMIT(S)

NA

### III. PROCESS/OPERATIONAL RESTRICTION(S)

NA

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- The permittee shall verify particulate emission rates from FGCLEANING by testing at the owner's expense, in accordance with the Department requirements. Testing shall be performed using an approved EPA Method listed in 40 CFR Part 60, Appendix A; Part 10 of the Michigan Air Pollution Control Rules. An alternate method, or a modification to the approved EPA Method, may be specified in an AQD-approved Test Protocol. No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD Technical Programs Unit and District Office. The AQD must approve the final plan prior to testing, including any modifications to the method in the test protocol that are proposed after initial submittal. The permittee must submit a complete report of the test results to the AQD Technical Programs Unit and District Office within 60 days following the last date of the test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)
- 2. The permittee shall verify the particulate emission rates from FGCLEANING, at a minimum, every five years from the date of the last test. (R 336.1213(3), R 336.2001, R 336.2003, R 336.2004)
- 3. The permittee shall notify the AQD Technical Programs Unit Supervisor and the District Supervisor not less than 30 days of the time and place before performance tests are conducted. (R 336.1213(3))

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#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- 1. Daily check for visible emissions. The results shall be recorded in the maintenance log. (R 336.1213(3)(a)(ii))
- 2. The baghouse pressure differential shall be recorded at least once a day in the maintenance log. (R 336.1213(3)(a)(ii))
- 3. The permittee shall implement and maintain a preventative maintenance program for the baghouse in accordance with manufacturer recommendations. Baghouse preventative maintenance activities shall be recorded in the maintenance log. (R 336.1213(3)(a)(iii))
- 4. The permittee shall perform quarterly inspection of the baghouse with a fluorescent detection device and record results in the maintenance log. (R 336.1213(3)(a)(ii))

#### See Appendices 3 and 9

#### VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- 4. The permittee shall submit any performance test reports to the AQD Technical Programs Unit and District Office, in a format approved by the AQD. (R 336.1213(3)(c), R 336.2001(5))

### See Appendix 8

#### VIII. STACK/VENT RESTRICTION(S)

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

|    | Stack & Vent ID | Maximum<br>Exhaust Diameter<br>/ Dimensions<br>(inches) | Minimum Height<br>Above Ground<br>(feet) | Underlying Applicable<br>Requirements |
|----|-----------------|---|--|---------------------------------------|
| 1. | SV565-932       | 78 <sup>2</sup>   | 62 <sup>2</sup>                          | R 336.1201(3)                         |

#### IX. OTHER REQUIREMENT(S)

NA

#### Footnotes:

<sup>1</sup>This condition is state only enforceable and was established pursuant to Rule 201(1)(b). <sup>2</sup>This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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## FGCAM\_UNITS FLEXIBLE GROUP CONDITIONS

#### DESCRIPTION

This flexible group consists of emission units that use a control device to achieve compliance with a federally enforceable emission limitation or standard for particulate matter. The emission units have potential pre-control emissions, which are over 100 percent of the major source threshold amount (at a level considered to be major under the ROP program) for particulate matter.

Emission Units: EUSHAKEOUT, EUSAND1, EUCASTTRANSFER1, <u>EUVANETTA, EUBBFURN1, EUBBFURN2,</u> EUBBFURN3, EUBBFURN4, EUSAND2, EUCASTTRANSFER2, EUBLAST1, EUBLAST2, EUBLAST3, EUBLAST4

#### POLLUTION CONTROL EQUIPMENT

2014 North Dustar baghouse; East/West Fuller baghouse; pulse jet baghouse (South Fuller) and reverse air (Small Dustar) baghouse; reverse air west Dustar baghouse; pulse jet baghouse (North Fuller)

#### I. EMISSION LIMIT(S)

NA

#### II. MATERIAL LIMIT(S)

NA

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

1. If visible emissions are observed, the permittee will implement the malfunction abatement plan immediately. (40 CFR 64.7(d))

#### See Appendix 9

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

NA

#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

NA

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii))

- The permittee will perform a non-certified 6-minute visible emission check daily when EUSHAKEOUT, EUSAND1, EUCASTTRANSFER1, <u>EUVANETTA, EUBBFURN1, EUBBFURN2, EUBBFURN3, EUBBFURN4,</u> EUSAND2, EUCASTTRANSFER2, EUBLAST1, EUBLAST2, EUBLAST3, and EUBLAST4 are operating. The visible checks will be documented and recorded by the observer. The indicator is the presence of visible emissions. (40 CFR 64.6(c)(1)(i and ii))
- 2. The permittee shall measure the pressure drop and take a daily reading as an indicator of proper operation when the dust collector for EUSHAKEOUT, EUSAND1, EUCASTTRANSFER1, <u>EUVANETTA, EUBBFURN1,</u> <u>EUBBFURN2, EUBBFURN3, EUBBFURN4</u>, EUSAND2, EUCASTTRANSFER2, EUBLAST1, EUBLAST2,

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EUBLAST3, and EUBLAST4 is operating. The pressure drop will be documented and recorded by the observer. The indicator is a pressure drop outside of the normal pressure drop operating range for the individual baghouse. (40 CFR 64.6(c)(1)(i and ii))

- 3. An excursion is a departure from the indicator range listed in the facility's CAM plan. (40 CFR 64.6(c)(2))
- 4. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during malfunction is any sudden, in frequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions. (40 CFR 64.6(c)(3), 40 CFR 64.7(c))
- 5. The permittee shall properly maintain the monitoring system, including keeping necessary parts for routine repair of the monitoring equipment. (40 CFR 64.7(b))
- 6. The permittee shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan and any activities undertaken to implement a quality improvement plan, and other information such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions. (40 CFR 64.9(b)(1))

#### See Appendix 3

#### VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- 4. The report required in Special Condition VII.2 above shall include a summary of information on the number, duration and cause (including unknown cause, if applicable) of exceedances and excursions and the corrective actions taken. If there were no excursions in the reporting period, this report shall include a statement that there were no excursions. (40 CFR 64.9, R 336.1213(3))

#### See Appendix 8

#### VIII. STACK/VENT RESTRICTION(S)

NA

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### IX. OTHER REQUIREMENT(S)

NA

<u>Footnotes:</u> <sup>1</sup> This condition is state only enforceable and was established pursuant to Rule 201(1)(b). <sup>2</sup> This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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### FGMACTEEEEE FLEXIBLE UNIT CONDITIONS

#### DESCRIPTION

The affected source is a new or existing iron and steel foundry, that is (or is part of) a major source of hazardous air pollutant (HAP) emissions. An existing affected source is a source that commences construction or reconstruction before December 23, 2002. A new affected source is a source that commences construction or reconstruction on or after December 23, 2002. The regulations cover emissions from metal melting furnaces, scrap preheaters, new pouring areas, pouring stations, new automated conveyor and new pallet cooling lines, new automated shakeout lines, mold and core making lines, and fugitive emissions from foundry operations.

Emission Units: EUVANETTA, EUBBFURN1, EUBBFURN2, EUBBFURN3, EUBBFURN4

#### POLLUTION CONTROL EQUIPMENT

Pulse jet baghouse (South Fuller) and reverse air (small Dustar) baghouse

#### I. EMISSION LIMIT(S)

| Pollutant                         | Limit  | Time Period/<br>Operating<br>Scenario | Equipment   | Monitoring/<br>Testing Method            | Underlying<br>Applicable<br>Requirements |
|-----------------------------------|--|---------------------------------------|---|--|--|
| 1. Opacity<br>(fugitive)          | 20 percent<br>6-min average,<br>except for one<br>6-min average<br>per hour that<br>does not<br>exceed<br>27 percent | 6-minute<br>average                   | Each Building or<br>Structure Housing any<br>Iron or Steel Foundry<br>Emission Source at<br>FG-MACT EEEEE-<br>FOUNDRIES | , ,                                      | 40 CFR 63.7690(a)(7)                     |
| 2. PM<br>OR<br>Total Metal<br>HAP | 0.005 gr/dscf<br>OR<br>0.0004 gr/dscf  | Hourly                                | Existing<br>Electric Induction<br>Melting and Existing<br>Scrap Preheater   | SC III.6, V.2, V.3,<br>VI.1, VI.3 & VI.5 | 40 CFR<br>63.7690(a)(1)(i)<br>or (ii)    |

#### II. MATERIAL LIMIT(S)

1. As an alternative to meeting the VOHAP limit in 40 CFR 63.7690(a)(9) for a new or existing scrap preheater, the permittee shall charge only material to the scrap preheater that is subject to and in compliance with the scrap certification requirement of 40 CFR 63.7700(b). (40 CFR 63.7700(e)(2))

#### III. PROCESS/OPERATIONAL RESTRICTION(S)

- The permittee shall submit to the AQD District Supervisor, for review and approval, an operation and maintenance (O&M) plan for each capture and control system and control device for an emission unit subject to an emission limit as described in 40 CFR 63.7710. The plan shall include, but is not limited to, the following:
  - a. Monthly inspections of the equipment that is important to the performance of the total capture system. (40 CFR 63.7710(b)(1))
  - b. Preventative maintenance plan for each control device, including a schedule. (40 CFR 63.7710(b)(3))
  - c. A site-specific monitoring plan for each bag leak detection system. (40 CFR 63.7710(b)(4))
  - d. Corrective action plan for each baghouse. (40 CFR 63.7710(b)(5))
  - e. Procedures for igniting gases from mold vents. (40 CFR 63.7710(b)(6))

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The permittee shall maintain and implement the approved O&M plans at all times. (40 CFR 63.7710, 40 CFR 63.7745)

- 2. For each capture system, the permittee shall establish site-specific operating limits in the O&M plans according to the procedures specified in 40 CFR 63.7733. (40 CFR 63.7733)
- 3. The permittee shall comply with the emission limits, work practice standards, and operation and maintenance requirements at all times, except during periods of startup, shutdown, or malfunction. (40 CFR 63.7720(a))
- 4. <u>The permittee shall develop and implement a written startup, shutdown and malfunction plan (SSMP) in accordance with 40 CFR 63.6(e)(3). This plan must address the startup, shutdown and corrective actions in the event of a malfunction of the emission capture system or the add-on control device. The permittee shall operate in accordance with the SSMP when applicable. (40 CFR 63.7720(c), 40 CFR 63.6(e)(3))</u>
- 5. For each segregated scrap storage area, bin or pile, the permittee shall prepare and operate at all times according to a written certification that the facility purchases and uses only charge material that does not include post-consumer automotive body scrap, post-consumer engine blocks, oil filters, oily turnings, lead components, mercury switches, plastics or organic liquids. (40 CFR 63.7700(a), 40 CFR 63.7700(b))
- As an alternative to meeting the VOHAP limit in 40 CFR 63.7690(a)(9) for an existing preheater, the permittee shall install, operate and maintain a gas-fired preheater where the flame directly contacts the scrap charged or the permittee <u>or the permittee</u> must charge only material that is subject to and in compliance with the scrap certification requirement in 40 CFR 63.7700(b). (40 CFR 63.7700(e)(1), 40 CFR 63.7700(e)(2), 40 CFR 7744(c))

#### IV. DESIGN/EQUIPMENT PARAMETER(S)

#### NA

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#### V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii), 40 CFR 63.7753)

- 1. The permittee shall conduct a performance test to demonstrate compliance with the opacity limit in 40 CFR 63.7690(a)(7), following the test methods and procedures in 40 CFR 63.7732(d). Subsequent compliance testing shall be conducted no less frequently than every 6 months. **(40 CFR 63.7730(a), 40 CFR 63.7731(b))**
- 2. The permittee shall conduct performance testing to demonstrate compliance with applicable PM or Total Metal HAP emission rates from FGMACTEEEEE according to the requirements in 40 CFR 63.7(e)(1), following the test methods and procedures in 40 CFR 63.7732(b), (c), (e), (f), (g) and (h). No less than 30 days prior to testing, the permittee shall submit a complete test plan to the AQD must approve the final plan prior to testing. Verification of emission rates includes the submittal of a complete report of the test results to the AQD within 60 days following the last date of the test. (40 CFR 63.7730(a))
- 3. The permittee shall conduct subsequent compliance testing to demonstrate compliance with all applicable emission limits, no less frequently than every 5 years. This requirement does not apply if a CEMS is used to demonstrate continuous compliance. (40 CFR 63.7731(a))

#### VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. (R 336.1213(3)(b)(ii), 40 CFR 63.7753)

- 1. The permittee shall monitor the relative change in PM loading using a bag leak detection system for any baghouse used to meet PM or Total Metal HAP emission limits. (40 CFR 63.7740(b))
- If using the alternative to meeting the VOHAP limit in 40 CFR 63.7690(a)(9) for an existing scrap preheater, the permittee shall keep records to document that the preheater charges only material that is subject to and in compliance with the scrap certification requirements. (40 CFR 63.7744(c))

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- For each baghouse that is applied to meet any PM or Total Metal HAP emission limit, the permittee shall install, operate, and maintain a bag leak detection system according to the requirements in 40 CFR 63.7741(b) and conduct inspections according to the requirements specified in 40 CFR 63.7740((1) through (8). (40 CFR 63.7740(b), 40 CFR 63.7741(b))
- 4. The permittee shall monitor and collect data to demonstrate continuous compliance in accordance with 40 CFR 63.7742. (40 CFR 63.7742)
- 5. The permittee shall demonstrate continuous compliance with all applicable emission limitations in accordance with 40 CFR 63.7743. (40 CFR 63.7743)
- 6. The permittee shall maintain records that document continuous compliance with the requirements of 40 CFR 63.7700(b) or (c) as specified in 40 CFR 63.7744(a). **(40 CFR 63.7744)**

#### See Appendices 4 and 7

#### VII. REPORTING

- 1. Prompt reporting of deviations pursuant to General Conditions 21 and 22 of Part A. (R 336.1213(3)(c)(ii))
- Semiannual reporting of monitoring and deviations pursuant to General Condition 23 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for reporting period July 1 to December 31 and September 15 for reporting period January 1 to June 30. (R 336.1213(3)(c)(i))
- Annual certification of compliance pursuant to General Conditions 19 and 20 of Part A. The report shall be postmarked or received by the appropriate AQD District Office by March 15 for the previous calendar year. (R 336.1213(4)(c))
- The permittee shall report each instance in which each emission limitation, each work practice standard, and each operation and maintenance requirement was not met, in accordance with the requirements of 40 CFR 63.7751. (40 CFR 63.7746, 40 CFR 63.7751)
- 5. The permittee shall submit applicable notifications specified in 40 CFR 63.6(h)(4) and (5), 40 CFR 63.7(b) and (c), 40 CFR 63.8(e), 40 CFR 63.8(f)(4) through (6), and 40 CFR 63.9(b) through (h) for an initial notification, a notification of intent to conduct a performance test, and a notification of compliance status as specified in 40 CFR 63.7750. (40 CFR 63.7750)
- 5. The permittee shall submit all semiannual compliance reports and semiannual reports of monitoring and deviations from any emissions limitation or operation and maintenance requirement as required by 40 CFR 63.7751(a), (b), and (d). (40 CFR 63.7751 (a), (b), and (d))
- 6. The permittee must submit the reports according to the procedures listed below:
  - a. The permittee must submit all compliance reports required per 40 CFR 63.7751(e) electronically using the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the USEPA's Central Data Exchange (CDX) (https://cdx.epa.gov/). The permittee must use the appropriate electronic report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/cedri).
     (40 CFR 63.7551(e))
  - b. Within 60 days after the date of completing each performance test, submit the results of the performance tests required by 40 CFR Part 63, Subpart EEEEE by using CEDRI. Performance test data must be submitted in the file format generated through use of the USEPA's Electronic Reporting Tool (ERT) (see https://www.epa.gov/technical-air-pollution-resources). For any performance test conducted using test methods that are not listed on the ERT Web site, the results of the performance test must be included as an attachment in the ERT or an alternate electronic file consistent with the XML schema listed on the USEPA's ERT website. Submit the ERT generated package or alternative file to the USEPA via CEDRI. (40 CFR 63.7551(f)(1) and (2))

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7. Jf a startup, shutdown, or malfunction occurs during the semiannual reporting period, that is not consistent with the SSMP, the permittee shall submit an immediate SSM report according to the requirements of 40 CFR 63.10(d)(5)(ii). (40 CFR 63.10(d)(5)(ii), 40 CFR 63.7751(c))

See Appendix 8

### VIII. STACK/VENT RESTRICTION(S)

NA

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### IX. OTHER REQUIREMENT(S)

1. The permittee shall comply with all applicable provisions of the National Emission Standards for Hazardous Air Pollutants, as specified in 40 CFR Part 63, Subpart A and Subpart EEEEE for Iron and Steel Foundries by the compliance date. (40 CFR Part 63, Subparts A and EEEEE)

**Footnotes:** <sup>1</sup>This condition is state only enforceable and was established pursuant to Rule 201(1)(b). <sup>2</sup>This condition is federally enforceable and was established pursuant to Rule 201(1)(a).

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## E. NON-APPLICABLE REQUIREMENTS

At the time of the ROP issuance, the AQD has determined that no non-applicable requirements have been identified for incorporation into the permit shield provision set forth in the General Conditions in Part A pursuant to Rule 213(6)(a)(ii).

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## APPENDICES

|             | Common Acronyms                          | I                 | Pollutant / Measurement Abbreviations                            |
|-------------|--|-------------------|--|
| AQD         | Air Quality Division                     | acfm              | Actual cubic feet per minute                                     |
| BACT        | Best Available Control Technology        | BTU               | British Thermal Unit   |
| CAA         | Clean Air Act                            | °C                | Degrees Celsius  |
| CAM         | Compliance Assurance Monitoring          | CO                | Carbon Monoxide  |
| CEM         | Continuous Emission Monitoring           | CO <sub>2</sub> e | Carbon Dioxide Equivalent  |
| CEMS        | Continuous Emission Monitoring System    | dscf              | Dry standard cubic foot  |
| CFR         | Code of Federal Regulations              | dscm              | Dry standard cubic meter   |
| COM         | Continuous Opacity Monitoring            | °F                | Degrees Fahrenheit   |
| Department/ | Michigan Department of Environment,      | gr                | Grains   |
| department  | Great Lakes, and Energy                  | ĂАР               | Hazardous Air Pollutant  |
| EGLE        | Michigan Department of Environment,      | Hg                | Mercury  |
|             | Great Lakes, and Energy                  | hr                | Hour   |
| EU          | Emission Unit                            | HP                | Horsepower   |
| FG          | Flexible Group                           | H <sub>2</sub> S  | Hydrogen Sulfide   |
| GACS        | Gallons of Applied Coating Solids        | kW                | Kilowatt   |
| GC          | General Condition                        | lb                | Pound  |
| GHGs        | Greenhouse Gases                         | m                 | Meter  |
| HVLP        | High Volume Low Pressure*                | mg                | Milligram  |
| ID          | Identification                           | mm                | Millimeter   |
| IRSL        | Initial Risk Screening Level             | MM                | Million  |
| ITSL        | Initial Threshold Screening Level        | MW                | Megawatts  |
| LAER        | Lowest Achievable Emission Rate          | NMOC              | Non-methane Organic Compounds                                    |
| MACT        | Maximum Achievable Control Technology    | NOx               | Oxides of Nitrogen   |
| MAERS       | Michigan Air Emissions Reporting System  | ng                | Nanogram   |
| MAP         | Malfunction Abatement Plan               | PM                | Particulate Matter   |
| MSDS        | Material Safety Data Sheet               | PM10              | Particulate Matter equal to or less than 10                      |
| NA          | Not Applicable                           |                   | microns in diameter  |
| NAAQS       | National Ambient Air Quality Standards   | PM2.5             | Particulate Matter equal to or less than 2.5 microns in diameter |
| NESHAP      | National Emission Standard for Hazardous | pph               | Pounds per hour  |
|             | Air Pollutants                           | ppm               | Parts per million  |
| NSPS        | New Source Performance Standards         | ppmv              | Parts per million by volume                                      |
| NSR         | New Source Review                        | ppmw              | Parts per million by weight                                      |
| PS          | Performance Specification                | %                 | Percent  |
| PSD         | Prevention of Significant Deterioration  | psia              | Pounds per square inch absolute                                  |
| PTE         | Permanent Total Enclosure                | psig              | Pounds per square inch gauge                                     |
| PTI         | Permit to Install                        | scf               | Standard cubic feet  |
| RACT        | Reasonable Available Control Technology  | sec               | Seconds  |
| ROP         | Renewable Operating Permit               | SO <sub>2</sub>   | Sulfur Dioxide   |
| SC          | Special Condition                        | TAC               | Toxic Air Contaminant  |
| SCR         | Selective Catalytic Reduction            | Temp              | Temperature  |
| SNCR        | Selective Non-Catalytic Reduction        | THC               | Total Hydrocarbons   |
| SRN         | State Registration Number                | tpy               | Tons per year  |
| TEQ         | Toxicity Equivalence Quotient            | μg                | Microgram  |
| USEPA/EPA   | United States Environmental Protection   | μm                | Micrometer or Micron   |
|             | Agency                                   | VOC               | Volatile Organic Compounds                                       |
| VE          | Visible Emissions                        | yr                | Year   |

\*For HVLP applicators, the pressure measured at the gun air cap shall not exceed 10 psig.

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#### Appendix 2. Schedule of Compliance

The permittee certified in the ROP application that this stationary source is in compliance with all applicable requirements and the permittee shall continue to comply with all terms and conditions of this ROP. A Schedule of Compliance is not required. (R 336.1213(4)(a), R 336.1119(a)(ii))

#### **Appendix 3. Monitoring Requirements**

The following monitoring procedures, methods, or specifications are the details to the monitoring requirements identified and referenced in EUSHAKEOUT, FGGRAYIRON, FGMOLDCOOLING, FGCLEANING, FGWDUSTAR and FGCAM\_UNITS.

- Visible emissions shall be observed daily during daylight hours while the emission unit is operating. Visible emissions shall be recorded as "observed" or "not observed". The following shall also be recorded in the maintenance log:
  - a. The color of the emission.
  - b. Whether the emissions are representative of normal operations.
  - c. If the emissions are abnormal, the total duration of the incident.
- 2. If abnormal visible emissions are observed the maintenance supervisor or alternate shall be notified within 2 hours of discovery.
- An evaluation of the fabric filter collector and a determination of necessary maintenance and/or repairs shall be made within 4 hours of discovery. Maintenance and repair operations shall be recorded. Repairs shall be made within 8 hours of discovery.
- 4. After repairs and/or startup, another visible emission check shall be performed.
- 5. Routine maintenance on the fabric filter collector shall be performed according to the manufacturer's or facility's specification.

#### Appendix 4. Recordkeeping

Specific recordkeeping requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

#### **Appendix 5. Testing Procedures**

Specific testing requirement plans, procedures, and averaging times are detailed in the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

#### Appendix 6. Permits to Install

The following table lists any PTIs issued or ROP revision applications received since the effective date of the previously issued ROP No. MI-ROP-B2015-2013. Those ROP revision applications that are being issued concurrently with this ROP renewal are identified by an asterisk (\*). Those revision applications not listed with an asterisk were processed prior to this renewal.

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Source-Wide PTI No MI-PTI-B2015-2013c is being reissued as Source-Wide PTI No. MI-PTI-B2015-2019.

| Permit to<br>Install<br>Number | ROP Revision<br>Application Number | Description of Equipment or Change          | Corresponding<br>Emission Unit(s) or<br>Flexible Group(s) |                          |
|--------------------------------|------------------------------------|---|---|--------------------------|
| NA                             | <del>201800127*</del>              | South ETA baghouse was installed in         | FGGRAYIRON  | Formatted: Strikethrough |
|                                |                                    | 2018 under Rule 336.1285(2)(f) to           |   |                          |
|                                |                                    | capture and control fugitive emissions      |   |                          |
|                                |                                    | from the melt deck and scrap area.          |   |                          |
| 137-14                         | <del>201400195</del>               | Incorporate PTI No. 137-14. PTI No.         | EUSHAKEOUT  | Formatted: Strikethrough |
|                                |                                    | 137-14 is for replacement of a dust         | FGCAM_UNITS   |                          |
|                                |                                    | collector for EUSHAKEOUT and mold           |   |                          |
|                                |                                    | making machines and automated mold          |   |                          |
|                                |                                    | conveyors.                                  |   |                          |
| NA                             | <del>201400102</del>               | Fix typographical error in FGGRAYIRON,      | FGGRAYIRON  | Formatted: Strikethrough |
|                                |                                    | SC III.1; and rule citation. Condition was  |   |                          |
|                                |                                    | moved to FGMACTEEEEE, SC III.6              |   |                          |
|                                |                                    | during ROP renewal technical review.        |   |                          |
| NA                             | <del>201300183</del>               | Revision to language for stack testing      | FGCOREMAKE  | Formatted: Strikethrough |
|                                |                                    | condition for FGCOREMAKE to require         |   |                          |
|                                |                                    | testing within 180 days of start-up instead |   |                          |
|                                |                                    | of once during the term of the ROP.         |   |                          |
| J                              |                                    | FGCOREMAKE equipment may not be             |   |                          |
|                                |                                    | brought back into use, but Facility wishes  |   |                          |
|                                |                                    | to maintain operational flexibility.        |   |                          |

#### Appendix 7. Emission Calculations

Specific emission calculations to be used with monitoring, testing or recordkeeping data are detailed in the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, this appendix is not applicable.

#### Appendix 8. Reporting

#### A. Annual, Semiannual, and Deviation Certification Reporting

The permittee shall use the EGLE, AQD, Report Certification form (EQP 5736) and EGLE, AQD, Deviation Report form (EQP 5737) for the annual, semiannual and deviation certification reporting referenced in the Reporting Section of the Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Alternative formats must meet the provisions of Rule 213(4)(c) and Rule 213(3)(c)(i), respectively, and be approved by the AQD District Supervisor.

#### B. Other Reporting

Specific reporting requirement formats and procedures are detailed in Part A or the appropriate Source-Wide, Emission Unit and/or Flexible Group Special Conditions. Therefore, Part B of this appendix is not applicable.

#### Appendix 9. Preventative Maintenance

The permittee shall maintain an acceptable preventative maintenance plan and submit modifications upon request of the AQD District Supervisor.

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|      |          | TRG Air Pollutio | on Control Plan |                   |
|------|----------|------------------|-----------------|-------------------|
| DCN: | WI-EN-03 | Revision Date:   | 9/9/2021        | Page 1 of 5 Pages |

## 1. General

- **1.1.** Various air pollution regulations require operating, maintenance, and malfunction plans to be developed, implemented, and maintained. This Work Instruction satisfies the regulatory plan requirements applicable to TRG.
- **1.2.** Any malfunction or deviation, excursion, exceedance, etc. from operating parameters stated in this plan or permit must be responded to in the manner prescribed by this plan.
  - 1.2.1.Regardless of what steps are taken to respond to malfunctions, deviations, excursions, exceedances, etc., emphasis shall be on eliminating increased levels of pollution and restoring operation of the emission unit and pollution control device to normal as soon as possible.
- $\label{eq:1.3.Additional information can be found in the facility's air permit.$
- 1.4. This Air Pollution Control Plan shall be reviewed annually (and upon revisions) by the Plant Manager, Maintenance Manager, Operations Managers, Facility Environmental Representative, and Director of Environmental Engineering. This review shall be completed using SharePoint's Controlled Documents routing feature.
- 1.5. All revisions shall remain available indefinitely.
- 2. National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries (40 CFR 63.7680 to 63.7765), also known as "MACT"
  - 2.1. Purpose: Maximum Achievable Control Technology ("MACT") standards have been developed as required by the 1990 Clean Air Act Amendments. The purpose of the MACT standards is to reduce Hazardous Air Pollutant ("HAP") emissions in the US. The standards include emissions limits (contained in facility's air permit) as well as operation and maintenance requirements as listed herein.
  - 2.2. Applies to:
    - 2.2.1. Scrap & Charge Handling; Iron Charging, Preheater, Melting, Fugitive Emissions
  - 2.3. Scrap Certification & Selection Plan (40 CFR 63.7700)
    - 2.3.1. MTI foundries purchase and use only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, lead components, mercury switches, plastics or free organic liquids. Any post-consumer engine blocks, post-consumer oil filters, or oily turnings that are processed and/or cleaned to the extent practicable such that the materials do not include lead components, mercury switches, chlorinated plastics, or free organic liquids can be included in this certification. The raw material specifications, which specify these requirements, are located in the MTI Operating System SharePoint Library as controlled documents. Adherence to this practice satisfies 63.7700(a-b), and therefore TRG is not subject to 63.7700(c).
    - 2.3.2. Of particular interest to MTI foundries is the use of "oily turnings" that have been processed and/or cleaned to the extent practicable as noted above. In order to comply with this standard, MTI purchases only turnings which conform to the raw materials specifications noted above. Use of internally-processed borings (i.e. wet borings that are dried by our internal dryer process) is permitted as long as the processed borings meet the same raw material specifications (noted above) as the purchased dry borings.
  - 2.4. Operating & Maintenance (O&M) Plan (40 CFR 63.7710)
    - 2.4.1. Emission units, air pollution control equipment, and monitoring equipment must always be operated and maintained in a manner consistent with good air pollution control practices for minimizing emissions.

|      | TRG Air Pollution Control Plan           |   |                        |           |                          |  |
|------|--|---|------------------------|-----------|--------------------------|--|
| DCN: | WI-EN-03                                 | Revision Date:  | 9/9/2021               |           | Page 2 of 5 Pages        |  |
| 2    | requirements (see A observations, readir | pment must be operated, m<br>Appendices A & B to see how<br>ngs, etc. require repair as soo<br>of differential pressures; | requirements are m     |           |                          |  |
|      | -  | mation of dust removal fron   | n hoppers              |           |                          |  |
|      | 2.4.2.3. Daily compres                   | ssed air checks   |                        |           |                          |  |
|      |  | itoring of cleaning cycles  |                        |           |                          |  |
|      |  | k of bag cleaning mechanism   | ns for proper function | n throug  | h visual inspection or   |  |
|      | equivalent me                            |   |                        |           | ,                        |  |
|      |  | ections of equipment import   | ant to the total capti | ure syste | em (pressure sensors,    |  |
|      | =  | nper switches)<br>al inspection of integrity of e   | quinment (e.g. disnl   | acad hay  | ade                      |  |
|      |  | nted/pierced ducts, fans, etc   |                        |           | 503,                     |  |
|      |  | ses must self-ignite >75% of  | •                      | I ignitio | n procedures must be     |  |
| 2.5. | -  | tection Monitoring Plan (40 (   | CFR 63.7710(b)(4))     |           |                          |  |
|      |  | detection systems (Broken I   |                        | ") requi  | re each sensor/monitor   |  |
|      |  | intained, operated, and mor   | -                      |           |                          |  |
|      |  | each pollutant stream.  |                        |           |                          |  |
| 2    | 2.5.2. Installation                      |   |                        |           |                          |  |
|      |  | detection system is installed<br>Instruction Manual.  | according to the pro   | cedures   | outlined in the Auburn   |  |
| 2    | 2.5.3. Initial & Periodic A              | djustment & Maintenance   |                        |           |                          |  |
|      | 2.5.3.1. Monitoring ar                   | nd alarm settings are set acco  | ording to MTI's "Brok  | ken Bag   | Detector Alarm Setting   |  |
|      | Protocol" (ma                            | intained on TRG's Environm  | ental SharePoint Libr  | ary) by t | he corporate             |  |
|      |  | al department.  |                        |           |                          |  |
|      |  | cument includes monitoring etpoints.  | data, equipment info   | ormatior  | n, and the rationale for |  |
|      |  | 3D has a unique protocol doc<br>oint Library.   | cument. All are saved  | d on TRO  | i's Environmental        |  |
|      | 2.5.3.2. No adjustmer<br>adjustments:    | nts may be made without sta   | te notification, excep | ot quarte | erly seasonal            |  |
|      | setpoin                                  | nal changes in temperature,<br>t, the "Broken Bag Detector<br>ined as a record.   |                        |           |                          |  |
| 2    | 2.5.4. New BBDs use a te                 | echnology that does not requ  | ire all of the QA prod | cedures   | that are listed in the   |  |
|      | EPA BBD Guidance                         | e Document EPA-454/R-98-0   | 15, therefore they ar  | e not co  | mpleted. For example,    |  |
|      | drift checks and el                      | ectronics zero checks are no  | t needed per manufa    | acturer's | guidance due to the      |  |
|      | digital nature of th                     | ne units. The manufacturer's  | s guidance is maintair | ned on T  | RG's SharePoint site.    |  |
| 2    | 2.5.5. BBDs are maintain                 | ed through:   |                        |           |                          |  |
|      |  | al inspection, cleaning, and re   | esponse tests          |           |                          |  |
|      | 2.5.5.2. Annual inspec                   |   |                        |           |                          |  |
| 2    | 2.5.6. Required BBD spar                 |   |                        |           |                          |  |
|      | 2.5.6.1. 1 full spare ur                 | nit including sensor probe an   | d monitor (if equippe  | ed)       |                          |  |

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|      | 2.5.6.2. Sufficient com<br>damage, etc. | nmunications cable and har      | dware to replace in the event   | of malfunction,          |
|      | 2.5.7. Alarm response                   |                                 |                                 |                          |
|      |   | m is triggered, the following   | g must be documented in the     | Pag Look Detection       |
|      | Alarm Log or e                          |                                 | s must be documented in the     | Dag Leak Detection       |
|      | 2.5.7.1.1. time the                     |                                 |                                 |                          |
|      | 2.5.7.1.2. equipm                       |                                 |                                 |                          |
|      | 2.5.7.1.3. descrip                      |                                 |                                 |                          |
|      |   | vestigation of cause comme      | ances (WITHIN 1 HOUR)           |                          |
|      | 2.5.7.1.5.                              | -                               | itiated to correct the cause (V | VITHIN 24 HOURS)         |
|      |   | e action completed (AS SO       |                                 |                          |
|      | 2.5.8. Possible corrective              |                                 |                                 |                          |
|      |   |                                 | following options, Corporate    | Environmental must he    |
|      | =                                       | ler to determine if it is a rep |                                 |                          |
|      | 2.5.8.2. Inspecting the                 |                                 |                                 |                          |
|      | 2.5.8.3. Checking for v                 |                                 |                                 |                          |
|      |   |                                 | nating the pulsing of that row  | 1                        |
|      | 2.5.8.5. Replacing def                  |                                 |                                 |                          |
|      |   | lefective compartment           |                                 |                          |
|      |   | pairing the BBD system          |                                 |                          |
|      | 2.5.8.8. Making proce                   |                                 |                                 |                          |
|      | 2.5.8.9. Shutting down                  |                                 |                                 |                          |
|      | 2.5.9. Alarms with no kno               | -                               |                                 |                          |
|      |   |                                 | ff on its own (so called "phan  | tom" or "false" alarms), |
|      |   |                                 | the interior of the baghouse f  |                          |
|      | clean side.                             |                                 |                                 | -                        |
|      | 2.5.9.2. The purpose                    | of this inspection is to confi  | irm that there were no under    | lying problems with the  |
|      | baghouse.                               |                                 |                                 |                          |
|      | 2.5.9.3. This WO mus                    | t be completed during the i     | next shutdown of the process    |                          |
|      | 2.5.9.4. If dust or oth                 | er abnormality is found dur     | ing the inspection, it must be  | logged and remedied      |
|      | according the                           | the APCP.                       |                                 |                          |
|      | 2.5.10. Data monitoring                 | and storage                     |                                 |                          |
|      | 2.5.10.1. The bag                       | leak detector output is stor    | ed electronically. The output   | t is continuously        |
|      | monitored by                            | the alarm mechanism, and        | a data point is stored at least | t every 10 seconds.      |
|      | 2.5.10.2. Data fro                      | m periods of malfunction, a     | djustment, or calibration sha   | ll not be used for       |
|      | monitoring ar                           | d compliance verification.      |                                 |                          |
| 2.6. | Start-up and shutdown                   |                                 |                                 |                          |
|      | 2.6.1.Start-up procedure:               |                                 |                                 |                          |
|      | 2.6.1.1. Start pollutior                | n control equipment prior to    | o beginning production          |                          |
|      | 2.6.1.2. Ensure all app<br>pressure and |                                 | ters are within specified range | es, such as differential |
|      | 2.6.1.3. Begin product                  | ion and ensure parameters       | remain within limits            |                          |
|      | 2.6.1.4. Immediately r                  | notify Maintenance Manage       | er of any abnormal conditions   | 5                        |
|      | 2.6.2.Shutdown procedur                 | e:                              |                                 |                          |

2.6.2.1. Wait until production has ceased

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```
2.6.2.2. Shut down pollution control equipment
```

## 3. Compliance Assurance Monitoring (CAM) Plan (40 CFR 64)

- 3.1. Purpose: CAM is intended to provide a reasonable assurance of compliance with applicable requirements under the Clean Air Act (CAA) for large emission units that rely on pollution control device equipment to achieve compliance. CAM accomplishes this by establishing monitoring requirements for emission units and their associated air pollution control equipment to ensure continuous, proper operation.
- **3.2.** Applies to: Shakeout, Sand System, Casting Transfer, Preheater, Melt, Blast Machines, North Dustar, East/West Fuller, South Fuller, Small Dustar, West Dustar, and North Fuller
- 3.3. CAM operating/monitoring requirements are listed in Appendix A.
- 3.4. Upon detecting any excursions from the requirements in Appendix A, TRG will follow the alarm response steps noted in 2.5.7 and 2.5.8 of this Plan (including records kept) and restore operation of the emission unit and pollution control system to its normal or usual manner of operation as expetisiously as practicable.
- **3.5.** CAM Plans are required to contain background, monitoring approach, performance criteria, and justification information for each emission unit/control device subject to CAM.

3.5.1.TRG maintains this information in its Environmental SharePoint Library.

## 4. Risk Management Plan (RMP) (40 CFR 68)

- 4.1. Purpose: Federal provisions for the prevention of chemical accidents.
- **4.2.** Not applicable TRG does maintain quantities of any substances listed in 40 CFR 68 above their threshold quantities.

## 5. Air Pollution Control Equipment Preventive Maintenance Plan (PMP)

- 5.1. TRG maintains a PMP for inspecting, maintaining, and repairing all emission control devices.
- 5.2. The PMP is developed and administered using the Odyssey PM program. The program includes:
  - 5.2.1.Identification of individuals responsible for inspecting, maintaining, and repairing emission control devices;
  - 5.2.2.Description of the items or conditions that will be inspected and the inspection schedule; and
  - 5.2.3.Identification and quantification of necessary replacement parts that must be maintained in inventory for quick replacement.
  - 5.2.4.Appendix B lists the emission control devices included in the PMP as well as their associated PM tasks.

## 6. Spare Parts Inventory

- 6.1. An inventory of spare parts shall be kept on site for each fabric filter collector.
  - 6.1.1.Required spares:
    - 6.1.1.1. Broken bag detector components to restore operation in the event of a failure
    - 6.1.1.2. Differential pressure gauge and tubing
    - 6.1.1.3. Fabric filter bags
    - 6.1.1.4. Filter bag cages
    - 6.1.1.5. Pulse timer board
  - 6.1.2.Recommended spares:
    - 6.1.2.1. Pulse valves
    - 6.1.2.2. Blower motors & drive belts
    - 6.1.2.3. Auger chains, bushings & bearings
    - 6.1.2.4. Rotary air locks

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6.1.2.5. Electrical/communications components

## 7. Associated documents/resources

- 7.1. Environmental SharePoint Site
- 7.2. Environmental SharePoint Library
- 7.3. WI-EN-004 TRG Air Pollution Control Plan Supporting Information
- 7.4. TRG Title V Air Permit MI-ROP-B2015-2019

| Revision Date | Description of Changes                                     |
|---------------|--|
| 2/1/2021      | Document Creation  |
| 9/9/2021      | Lowered DP lower limits on Dustars to .5" per Waltz Holst. |
|               |  |
|               |  |
|               |  |
|               |  |

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## Appendix A: Monitored Parameters

| Control Equipment    | Emission Unit       | Regulation          | Parameter            | Frequency         | Range                             | Control       |
|----------------------|---------------------|---------------------|----------------------|-------------------|-----------------------------------|---------------|
| Small Dustar & South | FGGRAYION emission  | NESHAPS; CAM; state | 1) Broken Bag        | 1) Continuous,    | 1) per BBD plan                   | 1) automatic  |
| Fuller               | units               |                     | Detectors            | recorded at least | 2) Small Dustar: .5-              | 2) PM 48999   |
|                      |                     |                     | 2) Differential      | every 10 seconds  | 8"; S Fuller: 1-8"                | 3) PM 38999   |
|                      |                     |                     | Pressure             | 2) Continuous,    | <ol><li>Normal/Abnormal</li></ol> | 4) automatic  |
|                      |                     |                     | 3) Visible Emissions | recorded daily    | 4) >80 psi                        |               |
|                      |                     |                     | 4) Compressed Air    | 3) Daily          |                                   |               |
|                      |                     |                     | Supply*              | 4) Continuous     |                                   |               |
| East/West Fullers    | FGEWFULLER emission | CAM; state          | 1) Differential      | 1) Continuous,    | 1) 2-8″                           | 1) PM 48999   |
|                      | units               |                     | Pressure             | recorded daily    | 2) Normal/Abnormal                | 2) PM 38999   |
|                      |                     |                     | 2) Visible Emissions | 2) Daily          |                                   |               |
| North Fuller         | FGCLEANING emission | CAM; state          | 1) Differential      | 1) Continuous,    | 1) 2-8″                           | 1) PM 48999   |
|                      | units               |                     | Pressure             | recorded daily    | 2) Normal/Abnormal                | 2) PM 38999   |
|                      |                     |                     | 2) Visible Emissions | 2) Daily          |                                   |               |
| West Dustar          | FGWDUSTAR emission  | CAM; state          | 1) Differential      | 1) Continuous,    | 1) .5-10"                         | 1) PM 48999   |
|                      | units               |                     | Pressure             | recorded daily    | 2) Normal/Abnormal                | 2) PM 38999   |
|                      |                     |                     | 2) Visible Emissions | 2) Daily          |                                   |               |
| North Dustar         | EUSHAKEOUT          | CAM; state          | 1) Differential      | 1) Continuous,    | 1) .5-8″                          | 1) PM 48999   |
|                      |                     |                     | Pressure             | recorded daily    | 2) Normal/Abnormal                | 2) PM 38999   |
|                      |                     |                     | 2) Visible Emissions | 2) Daily          |                                   |               |
| ETA                  | FGGRAYIRON emission | State               | 1) Differential      | 1) Continuous,    | 1) 2-8"                           | 1) PM 48999   |
|                      | units               |                     | Pressure             | recorded daily    | 2) Normal/Abnormal                | 2) PM 38999   |
|                      |                     |                     | 2) Visible Emissions | 2) Daily          |                                   |               |
| None                 | Generator           | NESHAPS             | Hours                | Weekly            | <100 hrs/yr, not                  | PM 1611       |
|                      |                     |                     |                      |                   | including times of                |               |
|                      |                     |                     |                      |                   | emergency use                     |               |
| None                 | Fugitive Emissions  | NESHAPS             | Opacity Readings     | 6 Months          | <20%, 1 6-min                     | Env Task List |
|                      |                     |                     |                      |                   | ave/hr. <27%                      |               |

\*Compressed air is monitored plant-wide through the use of alarms which notify plant personnel when the pressure falls out of range. 40 CFR 63.7740(c)(3) requires daily check of air supply for pulse-jet baghouses. TRG utilizes the alarms to ensure the continuous plant-wide supply of compressed air.

|      |          | TRG Air Pollutio | on Control Plan |                   |
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## Appendix B: Compliance Matrix

| Equipment                    | Regulation | Requirement   | Min Frequency          | Control**           |
|------------------------------|------------|---|------------------------|---------------------|
| Duct Work                    | 1          | Duct Airflow Testing and Review   | Annual                 | 698100              |
| Each Dust Collector          | MS         | Differential Pressure Readings  | Daily                  | 48999               |
| Each Stack                   | MS         | Visible Emissions Readings  | Daily                  | 38999               |
| N Fuller                     | S          | Mechanical & Visual Inspections   | Daily/Weekly           | 8903                |
| E Fuller                     | S          | Mechanical & Visual Inspections   | Daily/Weekly           | 8904                |
| W Fuller                     | S          | Mechanical & Visual Inspections   | Daily/Weekly           | 8905                |
| S Dustar, S Fuller & ETA     | MS         | Mechanical & Visual Inspections   | Daily/Weekly           | 8906                |
| N Dustar                     | S          | Mechanical & Visual Inspections   | Daily/Weekly           | 8939                |
| W Dustar                     | S          | Mechanical & Visual Inspections   | Daily/Weekly           | 8942                |
| N Fuller                     | S          | BBD Response Check, Visolite, Duct Inspection, Mechanical Inspection                | Monthly                | 18903               |
| E Fuller                     | S          | BBD Response Check, Visolite, Duct Inspection, Mechanical Inspection                | Monthly                | 18904               |
| W Fuller                     | S          | BBD Response Check, Visolite, Duct Inspection, Mechanical Inspection                | Monthly                | 18905               |
| S Dustar, S Fuller & ETA     | MS         | BBD Response Check, Visolite, Duct Inspection, Mechanical Inspection                | Monthly                | 18906               |
| N Dustar                     | S          | BBD Response Check, Visolite, Duct Inspection, Mechanical Inspection                | Monthly                | 18939               |
| W Dustar                     | S          | BBD Response Check, Visolite, Duct Inspection, Mechanical Inspection                | Monthly                | 18942               |
| All Broken Bag Detectors     | IM         | BBD System Zero Check   | Annual                 | 998100              |
| Differential Pressure Gauges | MCS        | Calibration or Replacement  | Semiannual             | 998200              |
| All DC's                     | MCS        | Walk through DC inspection  | Weekly                 | 707                 |
| All DC's                     | М          | Confirm dust removal systems operating  | Weekly                 | 707                 |
| n/a                          | S          | Visual opacity readings   | Daily                  | 730                 |
| DC-2                         | М          | Broken bag detector check   | Monthly                | 731                 |
| DC-2                         | М          | Broken bag detector check   | Annual                 | 732                 |
| n/a                          | М          | Method 9 Opacity Readings   | Semiannual             | ETL                 |
| Emergency Generator          | М          | <ol> <li>Mechanical Inspections</li> <li>Oil analysis and/or Replacement</li> </ol> | 1) Annual<br>2) Annual | 1) 1611<br>2) 21611 |

\*I=Internal requirement; M=MACT O&M requirement; C=CAM Plan requirement; S=State and Permit requirements

\*\*PM number; ETL=Environmental Task List

|         | TRG Air Pollution   | n Control      | Plan Supp           | orting Info     | rmation           |
|---------|---|----------------|---------------------|-----------------|-------------------|
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| 1. Gene | eral  |                |                     |                 |                   |
|         | ne following contains infor                               | mation requi   | red to be maint     | ained by one o  | or more           |
| re      | gulations. This information                               | n is maintain  | ed separately f     | rom the Air Po  | llution Control   |
| Pl      | an as it is contains founda                               | tional informa | ation that is rec   | uired to be ma  | aintained, yet is |
| no      | ot necessarily required for                               | the day-to-da  | ay operations o     | f the facility. |                   |
| 1.2. Co | ontains specifics related to                              | the develop    | ment of the Cor     | mpliance Assur  | rance Monitoring  |
| •       | CAM) Plan (contained in TR                                |                |                     | •               |                   |
|         | dditional information can                                 | pe found in th | ie facility's air p | ermit and Air   | Pollution Control |
|         | an.   |                |                     |                 |                   |
|         | pliance Assurance Monito                                  | •              |                     |                 | te Central        |
|         | an for Pollutant-Specific E<br>articulate Matter Emission |                | ( PSEU ) Utiliz     | ing a Bagnouse  | e to Control      |
|         | .1.Background   | 5              |                     |                 |                   |
| 2.1     | 2.1.1.1. Emissions Uni                                    | tc·            |                     |                 |                   |
|         |   |                | fication): EUSH     | AKEOUT EUS      |                   |
|         |   |                | NETTA, EUBBFU       |                 |                   |
|         |   |                | EUSAND2, EUG        |                 |                   |
|         |   | JBLAST3, EUB   |                     |                 | (2, 2002, 011,    |
|         |   |                | ssion Limits, an    | d Monitoring F  | Requirements      |
|         |   | itions:        |                     | -               | ); R 336.1205; R  |
|         | 336.1301(1)(  |                |                     | 555.1551(1)(6   | ,,                |
|         |   | ons Limits:    |                     |                 |                   |
|         |   |                |                     | Limits          |                   |
|         |   |                | Lbs/1000lbs         | Lbs/Hr          | % Opacity         |
|         | Emission Unit   | APCE           | exhaust gas,        | LUS/TH          |                   |
|         |   |                | dry                 |                 |                   |
|         | EUSHAKEOUT  | N Dustar       | .04                 | 11.9            | 5                 |
|         | EUSAND1 &   | E/W            | .04                 | 15.8            | 5                 |
|         | EUCASTTRANSFER1   | Fuller         |                     |                 |                   |
|         | combined  |                |                     |                 |                   |
|         | EUVANETTA,  | S Fuller,      | .01                 | 1.7             | n/a               |
|         | EUBBFURN1-4   | Small          |                     |                 |                   |
|         | combined  | Dustar         |                     |                 |                   |
|         | EUSAND2 &   | W              | .02                 | 13.5            | 5                 |
|         | EUCASTTRANSFER2   | Dustar         |                     |                 |                   |
|         | combined  |                | 1                   |                 |                   |

2.1.1.2.3. Monitoring Requirements:

N Fuller

.02

n/a

n/a

EUBLAST1-4 combined

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|------|---|----------------|----------|-------------------|--|--|--|
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2.1.1.2.3.1. Differential Pressure, Visible Emissions Readings

2.1.1.3. Control Technologies:

| APCE             | Туре        | Nominal<br>Volume |
|------------------|-------------|-------------------|
| Small Dustar     | Reverse Air | 65,000 cfm        |
| South Fuller     | Pulse Jet   | 65,000 cilii      |
| East/West Fuller | Pulse Jet   | 90,000 cfm        |
| North Fuller     | Pulse Jet   | 45,000 cfm        |
| West Dustar      | Reverse Air | 70,000 cfm        |
| North Dustar     | Reverse Air | 80,000 cfm        |

## 2.1.2. Monitoring Approach

2.1.2.1. Indicators, Measurement Approach, and Allowable Ranges:

| Emission Unit                | APCE                         | Indicator        | Method   | Range     |
|------------------------------|------------------------------|------------------|----------|-----------|
|                              | N Dustar                     | Diff             | DP Gauge | .5-8″     |
| EUSHAKEOUT                   |                              | Pressure         | DP Gauge | water     |
| EUSHAREOUT                   |                              | Visible          | Reading  | Normal /  |
|                              |                              | Emissions        | Reading  | Abnormal  |
| EUSAND1 &                    |                              | Diff             | DP Gauge | 2-8″      |
| EUCASTTRANSFER1              | E/W Fuller                   | Pressure         | Dr Gauge | water     |
| combined                     | E/ W Fuller                  | Visible          | Reading  | Normal /  |
| combined                     |                              | Emissions        | Reading  | Abnormal  |
|                              |                              |                  |          | Small     |
|                              | S Fuller,<br>Small<br>Dustar |                  |          | Dustar:   |
|                              |                              | Diff<br>Pressure |          | .5-8"     |
| EUVANETTA,                   |                              |                  | DP Gauge | water     |
| EUBBFURN1-4                  |                              |                  |          | S Fuller: |
| combined                     |                              |                  |          | 1-8″      |
|                              |                              |                  |          | water     |
|                              |                              | Visible          | Reading  | Normal /  |
|                              |                              | Emissions        | Reauling | Abnormal  |
| EUSAND2 &                    | W Dustar                     | Diff             | DP Gauge | .5-10"    |
| EUSANDZ &<br>EUCASTTRANSFER2 |                              | Pressure         | DP Gauge | water     |
| combined                     |                              | Visible          | Pooding  | Normal /  |
| combined                     |                              | Emissions        | Reading  | Abnormal  |
|                              | N Fuller                     | Diff             | DP Gauge | 2-8″      |
| EUBLAST1-4                   |                              | Pressure         | Dr Gauge | water     |
| combined                     |                              | Visible          | Reading  | Normal /  |
|                              |                              | Emissions        | neauing  | Abnormal  |

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|   |                              |                         |  |                      |  |
|   |                              | presentativeness:       |  |                      |  |
|   | 2.1.2.2.1. I<br>2.1.2.2.1.1. | Measurements are tak    |  | clean side and one   |  |
|   |                              |                         | ssures – one port in the o                 |                      |  |
|   | -                            | nsitivity of +/- 20% of | the baghouse. Each gaug<br>full scale.     | e nas a minimum      |  |
|   | 2.1.2.2.1.2.                 | •                       | located in the downcome                    | er or stack of the   |  |
|   | ba                           | •                       | certified by the manufact                  |                      |  |
|   |                              | -                       | f PM at a concentration                    | -                    |  |
|   | le                           | SS.                     |  |                      |  |
|   | 2.1.2.2.1.3.                 | Fan Amperage            | <ul> <li>measured directly thro</li> </ul> | ugh the motor        |  |
|   | СС                           | ntrol system.           |  |                      |  |
|   | 2.1.2.2.1.4.                 | Duct Pressure -         | - measured in the duct p                   | rior to entering the |  |
|   | су                           | clone. Gauge has a m    | inimum sensitivity of +/-                  | .5".                 |  |
|   | 2.1.2.3. Verificat           | ion of Operational Sta  | atus:                                      |                      |  |
|   | 2.1.2.3.1. I                 | ndicator is monitored   | continuously and record                    | ed once per day to   |  |
|   |                              | ystems are operating a  | as designed.                               |                      |  |
|   |                              | Practices and Criteria: |  |                      |  |
|   |                              |                         | ecked/calibrated at leas                   |                      |  |
|   |                              |                         | ate within the above sens                  | sitivity             |  |
|   | •                            | ments, they are replace | ced.                                       |                      |  |
|   |                              | ing Frequency           | nitored continuously and                   | recorded at least    |  |
|   |                              | ay of operation.        | intored continuously and                   | recorded at least    |  |
|   |                              |                         | he facility's datalogging s                | system or            |  |
|   |                              | tive Maintenance reco   |  | system of            |  |
|   | 2.1.3. Monitoring Appr       |                         |  |                      |  |
|   | • • •                        |                         | CAM at the facility prima                  | rily emit            |  |
|   |                              |                         | rimary pollutant. This in                  | ,                    |  |
|   | and PM2.5.                   |                         | <i>,</i> ,                                 |                      |  |
|   | 2.1.3.2. TRG util            | izes baghouses as the   | primary means of contro                    | lling the amount     |  |
|   | of PM emitte                 | ed.                     |  |                      |  |
|   | 2.1.3.3. Baghous             | ses are generally recog | gnized as the most appro                   | priate method of     |  |
|   | controlling P                | M emissions by indust   | try and regulators alike.                  | For example, EPA     |  |
|   | -                            | -                       | 2018 RTR) an emission lir                  | -                    |  |
|   | -                            |                         | aces (40 CFR 63.7690(a)(2                  |                      |  |
|   | -                            | -                       | es routinely achieve leve                  |                      |  |
|   | -                            | -                       | es have been determined                    |                      |  |
|   | Control Tech                 | nology (BACT) during    | many Prevention of Sign                    | ificant              |  |

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Deterioration (PSD) determinations, further verifying their appropriateness for PM control.

- 2.1.3.4. Pressure drop and visible emissions were chosen as the appropriate indicators during the facility's initial and/or subsequent air permitting actions. An increase in any of these indicators can indicate a control system that is not operating properly, typically due to blockages, improper pulse frequency, or plugged filters. A decrease in any of these indicators can indicate that the system has lost some resistance to air flow, possibly due to holes in the equipment or filters. Each of these parameters also serve to verify sufficient airflow through the system, ensuring enough volume is present to collect emissions.
- 2.1.3.5. Indicator levels were chosen as the appropriate indicator during the facility's initial and/or subsequent air permitting actions. The indicator levels have been verified during performance testing as being protective of emission limits.

## 3. Associated documents/resources

- 3.1. Environmental SharePoint Site
- 3.2. Environmental SharePoint Library
- 3.3. WI-EN-003 MTA Air Pollution Control Plan
- 3.4. MTA Title V Air Permit T033-38821-00042

| Revision Date | Description of Changes                                     |
|---------------|--|
| 1/8/2021      | Document Creation  |
| 9/9/2021      | Lowered DP lower limits on Dustars to .5" per Waltz Holst. |
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| TRG Air Pollution Control Plan Supporting Information |          |                |          |                   |  |
|---|----------|----------------|----------|-------------------|--|
| DCN:  | WI-EN-04 | Revision Date: | 9/9/2021 | Page 5 of 5 Pages |  |



STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

LANSING



C. HEIDI GRETHER DIRECTOR

December 21, 2018

## VIA E-MAIL & UPS NEXT DAY

Mr. Dan Plant Dock Foundry LLC d/b/a Metal Technologies Three Rivers Gray Iron Plant 429 Fourth Street Three Rivers, Michigan 49093

Dear Mr. Plant:

Enclosed is the final signed copy of the State of Michigan, Department of Environmental Quality (MDEQ), Air Quality Division (AQD), Stipulation for Entry of Final Order by Consent (Consent Order) AQD No. 2018-20 for your company.

The effective date of this Consent Order was December 20, 2018. Please refer to paragraph 12 for payment information; the payment is due on or before <u>January 20, 2019</u>. To insure proper credit, all payments made pursuant to this Consent Order must include the <u>Payment Identification No. AQD40202</u>.

Thank you for your cooperation. If you have any questions, please feel free to contact me.

Sincerely, Jason Wolf

Enforcement Unit Air Quality Division Wolfj2@michigan.gov

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Enclosure

cc/enc: Ms. Sarah Marshall, U.S. Environmental Protection Agency, Region 5

- Mr. Neil Gordon, Michigan Department of Attorney General
  - Mr. Christopher Ethridge, MDEQ
  - Ms. Mary Douglas, MDEQ
  - Ms. Jenine Camilleri, MDEQ

## STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY OFFICE OF THE DIRECTOR

In the matter of administrative proceedings against DOCK FOUNDRY, LLC D/B/A METALTECHNOLOGIES THREE RIVERS GRAY IRON PLANT, a limited liability company organized under the laws of the State of Michigan and doing business at 429 Fourth Street in the City of Three Rivers, County of St. Joseph, State of Michigan

AQD No. 2018-20 SRN: B2015

## STIPULATION FOR ENTRY OF FINAL ORDER BY CONSENT

This proceeding resulted from allegations by the Michigan Department of Environmental Quality (MDEQ) Air Quality Division (AQD) against Dock Foundry, LLC d/b/a Metal Technologies Three Rivers Gray Iron Plant (Company), a limited liability company organized under the laws of the State of Michigan and doing business at 429 Fourth Street, City of Three Rivers, County of St. Joseph, State of Michigan, with State Registration Number (SRN) B2015. The MDEQ alleges that the Company is in violation of Mich Admin Code, R 336.1901 (Rule 901), Mich Admin Code, R 336.1370 (Rule 370), and Mich Admin Code, R 336.1910 (Rule 910). Specifically, the MDEQ alleges that the Company has emitted air contaminants from its facility that have created an unreasonable interference with the comfortable enjoyment of life and property and has failed to adequately collect air contaminants in a manner to minimize release to the outer air, as cited herein and in the Violation Notices dated April 23, 2018 and July 16, 2018. The Company and MDEQ stipulate to the termination of this proceeding by entry of a Stipulation for Entry of a Final Order by Consent (Consent Order).

The Company and MDEQ stipulate as follows:

1. The Natural Resources and Environmental Protection Act (NREPA) MCL 324.101 *et seq.*, is an act that controls pollution to protect the environment and natural resources in this State.

2. Article II, Pollution Control, Part 55 of the NREPA (Part 55), MCL 324.5501 *et seq.*, provides for air pollution control regulations in this State.

3. The MDEQ was created as a principal department within the Executive Branch of the State of Michigan pursuant to Executive Order 2011-1 and has all statutory authority, powers, duties, functions and responsibilities to administer and enforce all provisions of Part 55.

4. The MDEQ Director has delegated authority to the Director of the AQD (AQD Director) to enter into this Consent Order.

5. The termination of this matter by a Consent Order pursuant to Section 5528 of Part 55, MCL 324.5528, is proper and acceptable.

6. The Company and the MDEQ agree that the signing of this Consent Order is for settlement purposes only and does not constitute an admission by the Company that the law has been violated.

7. This Consent Order becomes effective on the date of execution (effective date of this Consent Order) by the AQD Director.

8. The Company shall achieve compliance with the aforementioned regulations in accordance with the requirements contained in this Consent Order.

## COMPLIANCE PROGRAM AND IMPLEMENTATION SCHEDULE

## **RULES**

9.A. On and after the effective date of this Consent Order, the Company shall comply with Rule 901.

9.B. On and after the effective date of this Consent Order, the Company shall comply with Rule 910.

## **GENERAL PROVISIONS**

10. This Consent Order in no way affects the Company's responsibility to comply with any other applicable state, federal, or local laws or regulations, including without limitation, any amendments to the federal Clean Air Act, 42 USC 7401 *et seq.*, Part 55, or their rules and regulations, or to the State Implementation Plan.

11. This Consent Order constitutes a civil settlement and satisfaction as to the resolution of the violations specifically addressed herein; however, it does not resolve any criminal action that may result from these same violations.

12. Within thirty (30) days after the effective date of this Consent Order, the Company shall pay to the General Fund of the State of Michigan, in the form of a check made payable to the "State of Michigan" and mailed to the Michigan Department of Environmental Quality, Accounting Services Division, Cashier's Office, P.O. Box 30657, Lansing, Michigan 48909-8157, a settlement amount of \$18,000.00, which includes AQD costs for investigation and enforcement. This total settlement amount shall be paid within thirty (30) days after the effective date of this Consent Order. To ensure proper credit, all payments made pursuant to this Consent Order shall include the "Payment Identification Number AQD40202" on the front of the check and/or in the cover letter with the payment. This settlement amount is in addition to any fees, taxes, or other fines that may be imposed on the Company by law.

13. On and after the effective date of this Consent Order, if the Company fails to comply with paragraph 9.A of this Consent Order, the Company is subject to a stipulated fine of up to \$3,000.00 per violation. Stipulated penalties may only be assessed if a MDEQ inspection confirms each violation of paragraph 9.A. On and after the effective date of this Consent Order, if the Company fails to comply with paragraph 9.B of this Consent Order, the Company is subject to a stipulated fine of up to \$3,500.00 per violation. The amount of the stipulated fines imposed pursuant to this paragraph shall be within the discretion of the MDEQ. Stipulated fines submitted under this Consent Order shall be by check, payable to the State of Michigan within thirty (30) days after written demand and shall be mailed to the Michigan Department of Environmental Quality, Accounting Services Division, Cashier's Office, P.O. Box 30657, Lansing, Michigan 48909-8157. To ensure proper credit, all payments shall include the "Payment Identification Number AQD40202-S" on the front of the check and/or in the cover letter with the payment. Payment of stipulated fines shall not alter or modify in any way the Company's obligation to comply with the terms and conditions of this Consent Order.

14. The AQD, at its discretion, may seek stipulated fines or statutory fines for any violation of this Consent Order which is also a violation of any provision of applicable federal and state law, rule, regulation, permit, or MDEQ administrative order. However, the AQD is precluded from seeking both a stipulated fine under this Consent Order and a statutory fine for the same violation.

15. To ensure timely payment of the settlement amount assessed in paragraph 12 and any stipulated fines assessed pursuant to paragraph 13 of this Consent Order, the Company shall pay an interest penalty to the State of Michigan each time it fails to make a complete or timely payment

under this Consent Order. The interest penalty shall be determined at a rate of twelve percent (12%) per year compounded annually, using the full increment of amount due as principal, calculated from the due date specified in this Consent Order until the date that delinquent payment is finally paid in full. Payment of an interest penalty by the Company shall be made to the State of Michigan in accordance with paragraph 13 of this Consent Order. Interest payments shall be applied first towards the most overdue amount or outstanding interest penalty owed by the Company before any remaining balance is applied to subsequent payment amount or interest penalty.

16. The Company agrees not to contest the legal basis for the settlement amount assessed pursuant to paragraph 12. The Company also agrees not to contest the legal basis for any stipulated fines assessed pursuant to paragraph 13 of this Consent Order but reserves the right to dispute in a court of competent jurisdiction the factual basis upon which a demand by MDEQ of stipulated fines is made. In addition, the Company agrees that said fines have not been assessed by the MDEQ pursuant to Section 5529 of Part 55, MCL 324.5529, and therefore are not reviewable under Section 5529 of Part 55.

17. This compliance program is not a variance subject to the 12-month limitation specified in Section 5538 of Part 55, MCL 324.5538.

18. This Consent Order shall remain in full force and effect for a period of at least two (2) years. Thereafter, this Consent Order shall terminate only upon written notice of termination issued by the AQD Director. Prior to issuance of a written notice of termination, the Company shall submit a request, to the AQD Director at the Michigan Department of Environmental Quality, Air Quality Division, P.O. Box 30260, Lansing, Michigan 48909-7760, consisting of a written certification that the Company has fully complied with all the requirements of this Consent Order and has made all payments including all stipulated fines required by this Consent Order. Specifically, this certification shall include: (i) the date of compliance with each provision of the compliance program and the date any payments or stipulated fines were paid; (ii) a statement that all required information has been reported to the AQD Kalamazoo District Supervisor; (iii) confirmation that all records required to be maintained pursuant to this Consent Order are being maintained at the facility; and, (iv) such information as may be requested by the AQD Director.

19. In the event Dock Foundry, LLC d/b/a Metal Technologies Three Rivers Gray Iron Plant sells or transfers the facility, with SRN B2015, it shall advise any purchaser or transferee of the existence of this Consent Order in connection with such sale or transfer. Within thirty (30) calendar

days, the Company shall also notify the AQD Kalamazoo District Supervisor, in writing, of such sale or transfer, the identity and address of any purchaser or transferee, and confirm the fact that notice of this Consent Order has been given to the purchaser and/or transferee. As a condition of the sale, the Company must obtain the consent of the purchaser and/or transferee, in writing, to assume all of the obligations of this Consent Order. A copy of that agreement shall be forwarded to the AQD Kalamazoo District Supervisor within thirty (30) days after assuming the obligations of this Consent Order.

20. Prior to the effective date of this Consent Order and pursuant to the requirements of Sections 5511 and 5528(3) of Part 55, MCL 324.5511 and MCL 5528(3), the public was notified of a 30-day public comment period and was provided the opportunity for a public hearing.

21. Section 5530 of Part 55, MCL 324.5530, may serve as a source of authority but not a limitation under which this Consent Order may be enforced. Further, Part 17 of the NREPA, MCL 324.1701 *et seq.*, and all other applicable laws and any other legal basis or applicable statute may be used to enforce this Consent Order.

22. The Company hereby stipulates that entry of this Consent Order is a result of an action by MDEQ to resolve alleged violations of its facility located at 429 Fourth Street, Three Rivers, Michigan. The Company further stipulates that it will take all lawful actions necessary to fully comply with this Consent Order, even if the Company files for bankruptcy in the future. The Company will not seek discharge of the settlement amount and any stipulated fines imposed hereunder in any future bankruptcy proceedings, and the Company will take necessary steps to ensure that the settlement amount and any future stipulated fines are not discharged. The Company, during and after any future bankruptcy proceedings, will ensure that the settlement amount and any future stipulated fines remain an obligation to be paid in full by the Company to the extent allowed by applicable bankruptcy law. The undersigned certifies that he/she is fully authorized by the Company to enter into this Consent Order and to execute and legally bind the Company to it.

## DOCK FOUNDRY, LLC D/B/A METALTECHNOLOGIES THREE RIVERS GRAY IRON PLANT

VP& General Coursel Signature Subscribed and sworn to by the above signatory before meron this day of 2018 December Notary **Rublic Signature** EAN M. N M W Notary Public Printed Name \* DEKALB 10m 16 7021 My Commission Expires 84 68 68 68 6 6 6 6 F Approved as to Content: Approved as to Form:

Mary Ann Dolehanty, Director AIR QUALITY DIVISION DEPARTMENT OF ENVIRONMENTAL QUALITY

Dated: 12/20/19

Neil Gordon, Section Head ENVIRONMENTAL REGULATION SECTION ENVIRONMENT, NATURAL RESOURCES, AND AGRICULTURE DIVISION DEPARTMENT OF ATTORNEY GENERAL

Dated: December 20, 2018

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## FINAL ORDER

The Director of the Air Quality Division having had opportunity to review this Consent Order and having been delegated authority to enter into Consent Orders by the Director of the Michigan Department of Environmental Quality pursuant to the provisions of Part 55 of the NREPA and otherwise being fully advised on the premises,

HAS HEREBY ORDERED that this Consent Order is approved and shall be entered in the record of the MDEQ as a Final Order.

## MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

Mary Ann Dolehanty, Director

Mary/Ann Dolehanty, Directdr/ Air Quality Division

Effective Date: 12/20/18