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Air Quality Division

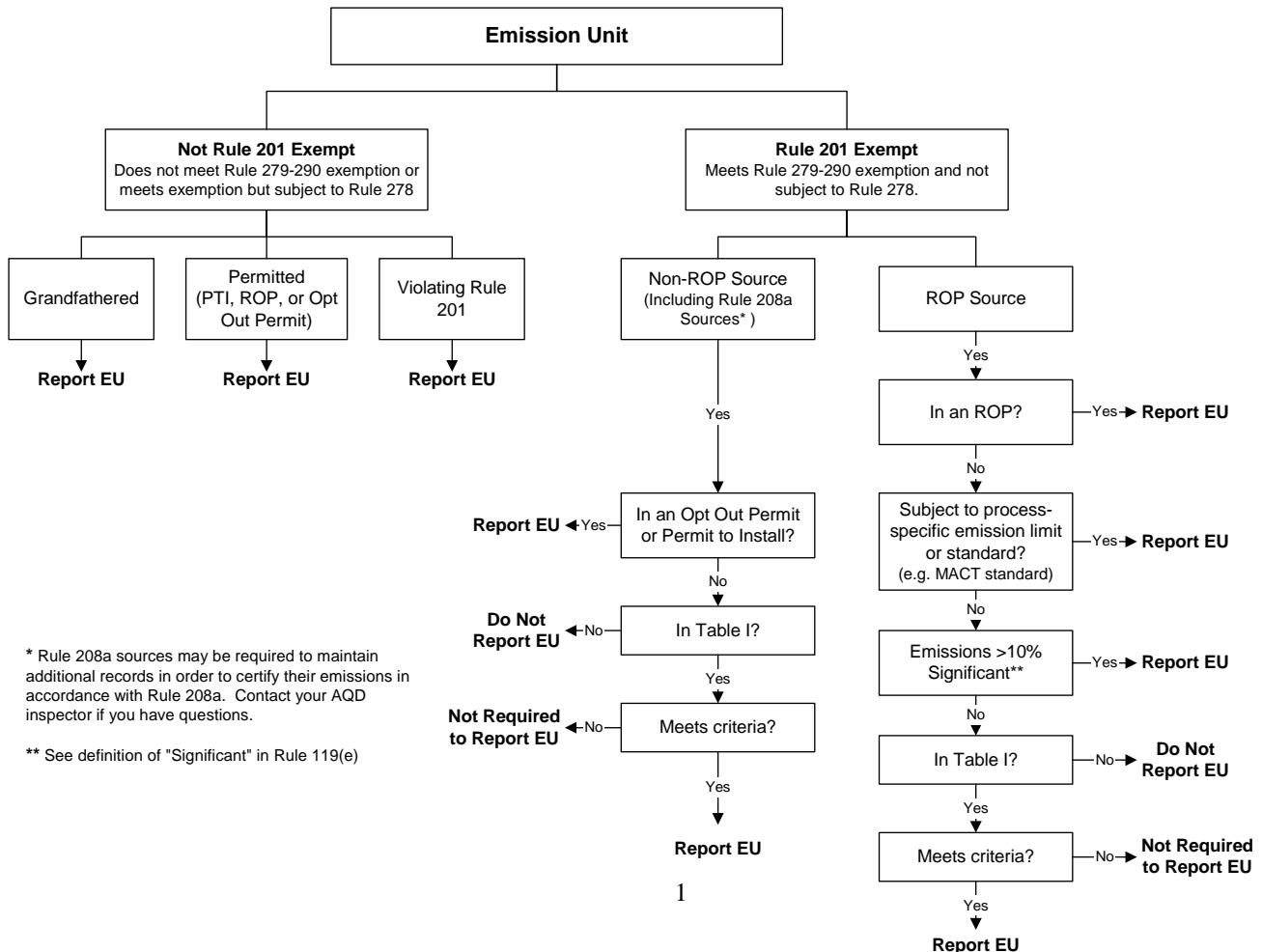
2008 MICHIGAN AIR EMISSIONS REPORTING SYSTEM (MAERS)

EU-101 EMISSION UNIT FORM INSTRUCTIONS AND EXAMPLE

Emission units that are not represented in the MAERS software or on the MAERS Source Summary Report must be added, unless they meet the Rule 201 exemption criteria on page 5. **If an emission unit is covered by an air use or Renewable Operating Permit (ROP), emissions from that emission unit must be reported.** Complete this form even if the emission unit was permanently rendered inoperable during the reporting year.

The Design Capacity fields are required if the emission unit is a boiler or turbine. The Maximum Nameplate Capacity is required for all Electric Generator's rated design capacity at 100% (maximum) operation. The AQD Source ID (SRN), AQD Emission Unit ID and Operator's ID are required fields.

WHAT EMISSION UNITS NEED TO BE REPORTED (If source is subject to MAERS)



* Rule 208a sources may be required to maintain additional records in order to certify their emissions in accordance with Rule 208a. Contact your AQD inspector if you have questions.

** See definition of "Significant" in Rule 119(e)

FORM REFERENCE SECTION:

1. **Form Type** - DEQ Air Quality reference identification for the form.
2. **AQD Source ID (SRN) – (Required)** - AQD Source ID (SRN) is where the SRN must be entered.

OPERATOR'S EMISSION UNIT IDENTIFICATION SECTION:

The Operator's ID must be unique for each emission unit at the source. Refer to the MAERS Introduction guide, page 8 for definition of an Operator's ID.

3. **AQD Emission Unit ID** - An Air Quality Division generated ID.
4. **Operator's ID - (Required)** To create an Operator's ID, use an EU prefix. If you have an ROP (Renewable Operating Permit), verify that your MAERS submittal accurately reflects the organization of your current ROP with regard to emission units (EU's). The naming convention for EU's in your ROP should be carried over to MAERS. This will make your database more accurate for use in PASS-ROP (ROP electronic application process) and will simplify this process in the future.
5. **NAICS Code** - If the NAICS Code for this emission unit is different than the NAICS Code identified on Source Form S-101, enter the appropriate NAICS Code.
6. **Installation Date** - Enter the date the emission unit was installed.
7. **Dismantle Date** - Report the date this emission unit was permanently removed or rendered inoperable during this reporting year. If the emission unit was dismantled prior to the reporting year, mark "Remove from MAERS" as YES.
8. **Operator's Emission Unit Description** - Provide a brief narrative description of the emission unit.
9. **Design Capacity** - Enter the design capacity if this emission unit is a boiler or a turbine.
10. **Design Capacity Numerator** – Choose the appropriate code from the Unit Code table, which is a dropdown table in the MAERS software and is also located on our DEQ-AQD website. (If the emission unit is a boiler, the numerator should be either BTUs (BTU), Million BTUs (E6BTU) or Horsepower (HP).

11. **Design Capacity Denominator** – Choose the appropriate code from the Unit Code table, which is a dropdown table in the MAERS software and is also located on our DEQ-AQD website. If the emission unit is a boiler, report the denominator as Hour (HR). (If the numerator is Horsepower (HP), denominator does not apply. Leave this field blank.)
12. **Maximum Nameplate Capacity** – Report the electric generator’s rated design capacity at 100% (maximum) operation in megawatts.

RULE 201 APPLICABILITY SECTION:

13. **Grandfathered?** - Select YES if this emission unit was installed prior to August 15, 1967 and not subsequently modified or reconstructed.
14. **Exempt from Rule 201?** - If the emission unit is exempt from permitting pursuant to **Rules 280 - 290**, then select YES.
15. **If Yes, Rule Number** – Enter the specific rule that applies from the Rule 201 Exemption List. If the specific rule that applies from Table I (page 5) is not listed, enter “Other” and describe in “Operator’s Emission Unit Description” field.
16. **If Rule 201 Exempt, Is Throughput Below the Reporting Thresholds?** - Compare the annual throughput to the specific rule listing (page 5). If the throughput is below the thresholds, select YES. A Rule 201 emission unit may be retained in MAERS without reporting throughput/emissions information, if throughput is less than thresholds assigned in Table I. This will be useful for future reporting years, should the throughput exceed the reporting threshold.
17. **Permit?** – Indicate whether the equipment represented by the Operator’s Emission Unit ID is permitted.
18. **If Yes, Enter the Permit Number** - Enter the number of the appropriate air use permit (i.e., ROP, NSR, and Wayne County). Include the “dash” and any letters that are a part of the permit number (Examples: 115-87 or 115-87A, etc.).

19. Is This Emission Unit Required to Report Emissions to MAERS for this Reporting Year? –

Emissions from the following types of emission units must be reported:

- grandfathered emission units;
- Rule 201 exempt emission units for which emissions reporting is required based on equipment type, capacity, or throughput activity (see Table I, page 5);
- permitted emission units;
- emission units from which emissions are accounted for in a Renewable Operating Permit opt-out mechanism;
- For Renewable Operating Permit sources, those additional Rule 201 exempt emission units from which actual emissions exceed 10 percent of significant levels, as defined in Rule 119(e)(see below).

| Pollutant | Rule 119 Significant Level (tons per year) | 10% of Significant Level (tons per year) |
|----------------------------|---|---|
| Carbon monoxide | 100 | 10 |
| Nitrogen oxides | 40 | 4 |
| Sulfur dioxide | 40 | 4 |
| Particulate matter | 25 | 2.5 |
| PM10 | 15 | 1.5 |
| Volatile organic compounds | 40 | 4 |
| Lead | 0.6 | 0.06 |

YES is the most common choice to select for this field. NO may be selected for EU's that are not described above. Selecting NO suspends the requirements for further activity and emissions information, yet this allows for the optional reporting of the EU in this year or future reporting years.

TABLE I – Exempt Rule 201 EU’s that must be reported in MAERS:

Emissions from emission units that are identified in the following list of **Rule 201** exemptions must be reported. Report the estimated air pollutants by SCC on the E-101 form. Sum the material throughputs for identical emission units by SCC on form A-101.

For ROP Sources, per Rule 212(7), emissions from any Rule 201 exempt emission unit must be reported if actual emissions from the unit exceed 10% of significant, as defined in Rule 119(e).

| EXEMPTION RULE | REPORTING REQUIREMENT |
|-----------------------|--|
| Rule 281(h) | Only report emissions of applicable criteria pollutants for cold cleaners having a total annual throughput greater than 1000 gallons of cleaner (the total annual throughput is the amount of cleaner used minus the cleaner recovered as waste). |
| Rule 282(b) | Only report emissions of applicable criteria pollutants from fuel burning equipment which has a total annual throughput equal to or greater than any of the following: 50,000,000 cubic feet of gases in Rule 282(b)(i), 400,000 gallons of fuel oil in Rule 282(b)(ii), and 1,000 tons of wood in Rule 282(b)(iii). |
| Rule 283(1)(c) | Report all emissions of applicable criteria pollutants if the testing medium contains a VOC. |
| Rule 283(1)(d) | Report all emissions of applicable criteria pollutants if the testing medium contains a VOC. |
| Rule 284(e) | Report all emissions of applicable criteria pollutants. |
| Rule 284(f) | Report all emissions of applicable criteria pollutants. |
| Rule 285(g) | Only report emissions of applicable criteria pollutants for engines with 300 horsepower and larger. Exclude emergency generators whose sole function is to provide back-up power when local utility service is interrupted. |
| Rule 285(l)(vi)(C) | Only report emissions of applicable criteria pollutants for equipment operating at a rate of 30,000 cubic feet per minute or higher. |
| Rule 285(p) | Only report emissions of applicable criteria pollutants for annual grain throughputs equal to or greater than 4,000,000 bushels. |
| Rule 285(r)(iv) | Only report emissions of applicable criteria pollutants for cold cleaners having a total annual throughput greater than 1,000 gallons of cleaner (the total annual throughput is the amount of cleaner used minus the cleaner recovered as waste). |
| Rule 285(aa) | Report all emissions of applicable criteria pollutants. |
| Rule 286(b) | Report emissions of applicable criteria pollutants when 3,000 tons or more of plastic is processed annually (aggregate of all plastic processes combined). |
| Rule 287(c) | Report all emissions of applicable criteria pollutants. |
| Rule 290 | Report all emissions of applicable criteria pollutants. |

Control Device Code(s):

20. **Control Device Code** - Enter the unique device code(s) that best describes the method of emissions control. The Control Device codes are a drop down option in the MAERS software and are available on our website www.michigan.gov/deqair. Go to “Emissions”, “Emissions Reporting”, and then “MAERS Support Resources”. Copies of this table may be requested from the district offices listed in the Submittal Instructions, Map and Table I guide. Indicate whether a control device code is being added or deleted by selecting the appropriate box. Indicate the number of control devices associated with this emission unit in the Operator’s Emission Unit Description area, Field 8.

Emission Unit Stack(s):

21. **Operator’s Stack ID** - Provide the Operator’s Stack ID created on form SV-101. Indicate whether a stack is being added or deleted for this emission unit by selecting the appropriate box.



Michigan Department of Environmental Quality - Air Quality Division
Michigan Air Emissions Reporting System (MAERS)
EXAMPLE 2008 EU-101 EMISSION UNIT

Authorized under 1994 P.A. 451, as amended. Completion of information is required. Civil and/or criminal penalties possible for providing false information.

GENERAL INSTRUCTIONS: Verify the accuracy of all information on last year's forms or summary report and make any necessary additions or corrections. Refer to the General Instructions Booklet for more detailed instructions.

| | |
|----------------------------|---|
| FORM REFERENCE | |
| 1. Form Type EU-101 | 2. AQD Source ID (SRN) A 1234 |

| | | | |
|--|---|--|--|
| OPERATOR'S EMISSION UNIT IDENTIFICATION | | <input checked="" type="checkbox"/> Change | <input type="checkbox"/> Add |
| 3. AQD Emission Unit ID EU0001 | 4. Operator's ID EUBOILER#1 | 5. NAICS Code (if different from S-101 #4) | |
| 6. Installation Date MM/DD/YYYY 05/05/1982 | | 7. Dismantle Date MM/DD/YYYY | |
| 8. Operator's Emission Unit Description - (Include Process Equipment and Control Devices) Boiler #1 | | | |
| 9. Design Capacity 50,000,000 | | 10. Design Capacity Numerator BTU | 11. Design Capacity Denominator HR |
| 12. Maximum Nameplate Capacity 15.0 Megawatts | | | |
| RULE 201 APPLICABILITY | | | |
| 13. Grandfathered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| 14. Exempt from Rule 201? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 15. If Yes, Rule Number | |
| 16. If Rule 201 Exempt, Is Throughput Below Reporting Thresholds? <input type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| 17. Permit? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | 18. If Yes, Enter the Permit Number 01-82 | |
| 19. Is This Emission Unit Required To Report Emissions To MAERS For This Reporting Year? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | |
| CONTROL DEVICE(S) | | | |
| 20. Control Device Code ESP | <input checked="" type="checkbox"/> Add <input type="checkbox"/> Delete | 20. Control Device Code | <input type="checkbox"/> Add <input type="checkbox"/> Delete |
| 20. Control Device Code | <input type="checkbox"/> Add <input type="checkbox"/> Delete | 20. Control Device Code | <input type="checkbox"/> Add <input type="checkbox"/> Delete |
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| EMISSION UNIT STACK(S) | | | |
| 21. Operator's Stack ID SVBOILER | <input checked="" type="checkbox"/> Add <input type="checkbox"/> Delete | 21. Operator's Stack ID SV | <input type="checkbox"/> Add <input type="checkbox"/> Delete |
| 21. Operator's Stack ID SV | <input type="checkbox"/> Add <input type="checkbox"/> Delete | 21. Operator's Stack ID SV | <input type="checkbox"/> Add <input type="checkbox"/> Delete |
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