

Ohio EPA Permit to Install Information Form

Please describe below any documentation which is being submitted with this recommendation (must be sent the same day). Electronic items should be submitted with the e-mail transmitting the PTI terms, and in software that CO can utilize. If mailing any hard copy, this section must be printed as a cover page. All items must be clearly labeled indicating the PTI name and number. Submit **hard copy items to Pam McGraner, AQM&P, DAPC, Central Office, and electronic files to airpti@epa.state.oh.us**

| <i>Please fill out the following. If the checkbox does not work, replace it with an 'X'</i> | <u>Electroni</u> <u>c</u> | <u>Additional information File</u> <u>Name Convention (your PTI</u> <u># plus this letter)</u> | <u>Hard</u> <u>Copy</u> | <u>None</u> |
|---|-------------------------------------|--|----------------------------|-------------------------------------|
| Calculations (required) | <input checked="" type="checkbox"/> | 0313679c.wpd | <input type="checkbox"/> | |
| Modeling form/results | <input type="checkbox"/> | 0000000s.wpd | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| PTI Application (complete or partial)* | <input type="checkbox"/> | 0000000a.wpd | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| BAT Study | <input type="checkbox"/> | 0000000b.wpd | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| Other/misc. | <input type="checkbox"/> | 0000000t.wpd | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

* Mandatory for netting, PSD, nonattainment NSR, 112(g), 21-07(G)(9)(g) and 21-09(U)(2)(f) - 2 complete copies.

Please complete (see comment bubble to the left for additional instructions):

NSR Discussion

See Permit Review Form

Please complete for these type permits (For PSD/NSR Permit, place mouse over this text):

- Synthetic Minor Determination and/or Netting Determination
 Permit To Install ENTER PTI NUMBER HERE

- A. Source Description
- B. Facility Emissions and Attainment Status
- C. Source Emissions
- D. Conclusion

PLEASE PROVIDE ADDITIONAL NOTES OR COMMENTS AS NECESSARY:
 NONE

Please complete:

SUMMARY (for informational purposes only)
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

Pollutant Tons Per Year

| | |
|------------|--------------|
| NOx | 20.37 |
| CO | 4.38 |
| PE | 1.36 |
| SO2 | 1.36 |

PART II - SPECIAL TERMS AND CONDITIONS FOR SPECIFIC EMISSIONS UNIT(S)

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operations(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|--|--------------------------------------|---|
| P001 - 150 Horsepower Diesel-Fired Emergency Generator | OAC rule 3745-31-05 (A)(3) | 4.65 lbs of NOx/hour; 20.37 tons of NOx/year 1.00 lb of CO/hour; 4.38 tons of CO/year 0.31 lb of PE/hour; 1.36 tons of PE/year 0.31 lb of SO2/hour; 1.36 tons of SO2/year The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-11 (B) (5) 10 percent opacity as a 6-minute average, except during start-up and shutdown |
| | OAC rule 3745-17-11 (B)(5)(a) | 0.31 lb PE/mmBTU |
| | OAC rule 3745-17-07 (A) | See A.2.a. |
| | OAC rule 3745-18-06 (B) | See A.2.b. |
| | | |

2. Additional Terms and Conditions

- 2.a The emissions limitation based on this applicable rule is less stringent than the limit established pursuant to OAC rule 3745-31-05.

- 2.b.** This emissions unit is exempt from the requirements of OAC rule 3745-18-06 because this unit has a rated heat capacity less than 10 mmBTU/hour.

B. Operational Restrictions

1. The permittee shall only burn low sulfur diesel fuel, containing no greater than 0.5% sulfur by weight, on an "as-received" basis, in this emissions unit.

C. Monitoring and/or Recordkeeping Requirements

1. For each day during which the permittee burns a fuel other than number two fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
2. The permittee shall maintain records that show the sulfur content (in percent by weight) of fuel burned.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
2. The permittee shall submit deviation (excursion) reports that identify each day when a fuel with a sulfur content greater than 0.5% sulfur was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation
4.65 lbs of NO_x/hour

Applicable Compliance Method

Compliance with the above emission limitation shall be determined by multiplying the maximum output capacity of 150 horsepower by an emission factor of 0.031 lb of NO_x/hp-hr (AP-42, Section 3.3 [10/96]). If required, the permittee shall demonstrate compliance by testing in accordance with Method 7, 40 CFR Part 60, Appendix A.

- b. Emission Limitation
20.37 tons of NO_x/year

Applicable Compliance Method

The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8,760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided

compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

c. Emission Limitation

1.00 lb of CO/hour

Applicable Compliance Method

Compliance with the above emission limitation shall be determined by multiplying the maximum output capacity of 150 horsepower by an emission factor of 6.68 E-03 lb of CO/hp-hr (AP-42, Section 3.3 [10/96]). If required, the permittee shall demonstrate compliance by testing in accordance with Method 10, 40 CFR Part 60, Appendix A.

d. Emission Limitation

4.38 tons of CO/year

Applicable Compliance Method

The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8,760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

e. Emission Limitation

0.31 lb of PE/hour

Applicable Compliance Method

Compliance with the above emission limitation shall be determined by multiplying an emission factor of 0.31 lb PE/mmBTU (AP-42, Section 3.3 [10/96]) and a maximum heat input of 1.0 mmBTU/hr. If required, the permittee shall demonstrate compliance by testing in accordance with Method 5, 40 CFR Part 60, Appendix A.

f. Emission Limitation

1.36 tons of PE/year

Applicable Compliance Method

The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8,760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

g. Emission Limitation

0.31 lb PE/mmBTU

Applicable Compliance Method

Compliance with the lb/mmBTU limitation shall be determined by use of an emission factor of 0.31 lb PE/mmBTU (AP-42, Section 3.3 [10/96]). If required, the permittee shall demonstrate compliance by testing in accordance with Method 5, 40 CFR Part 60, Appendix

A.

- h. Emission Limitation
0.31 lb of SO₂/hour

Applicable Compliance Method

Compliance with the above emission limitation shall be determined by multiplying the maximum output capacity of 150 horsepower by an emission factor of 2.05 E-03 lb of SO₂/hp-hr (AP-42, Section 3.3 [10/96]).

If required, the permittee shall demonstrate compliance by testing in accordance with Method 6, 40 CFR Part 60, Appendix A.

- i. Emission Limitation
1.36 tons of SO₂/year

Applicable Compliance Method

The tons/yr limitation was developed by multiplying the lb/hr limitation by the maximum operating schedule of 8,760 hrs/yr and dividing by 2000 lbs/ton. Therefore, provided compliance is shown with the hourly limitation, compliance will also be shown with the annual limitation.

- j. Emission Limitation
10% opacity as a six-minute average

Applicable Compliance Method

If required, compliance with the visible emission limitations shall be determined in accordance with Test Method 9 - 40 CFR Part 60, Appendix A.

F. Miscellaneous Requirements

None

NEW SOURCE REVIEW FORM B

PTI Number: 03-13679

Facility ID: 0333000041

FACILITY NAME Ada Technologies, Inc.

FACILITY DESCRIPTION 150 HP Diesel-Fired Emergency Generator CITY/TWP Ada

SIC CODE 3714 SCC CODE 2-02-001-02 EMISSIONS UNIT ID P001

EMISSIONS UNIT DESCRIPTION 150 HP Diesel-Fired Emergency Generator

DATE INSTALLED Upon issuance of this PTI

EMISSIONS: (Click on bubble help for Air Quality Descriptions)

| Pollutants | Air Quality Description | Actual Emissions Rate | | PTI Allowable | |
|--------------------|-------------------------|-----------------------|---------------|-----------------|---------------|
| | | Short Term Rate | Tons Per Year | Short Term Rate | Tons Per Year |
| Particulate Matter | Attainment | 0.31 | 1.36 | 0.31 | 1.36 |
| PM ₁₀ | Attainment | | | | |
| Sulfur Dioxide | Attainment | 0.31 | 1.36 | 0.31 | 1.36 |
| Organic Compounds | Attainment | | | | |
| Nitrogen Oxides | Attainment | 4.65 | 20.37 | 4.65 | 20.37 |
| Carbon Monoxide | Attainment | 1.00 | 4.38 | 1.00 | 4.38 |
| Lead | Attainment | | | | |
| Other: Air Toxics | | | | | |

APPLICABLE FEDERAL RULES:

NSPS? _____ NESHAP? _____ PSD? _____ OFFSET POLICY? _____

WHAT IS THE BAT DETERMINATION, AND WHAT IS THE BASIS FOR THE DETERMINATION?

Enter Determination Compliance with permit allowable emission rate & terms and conditions of this permit

IS THIS SOURCE SUBJECT TO THE AIR TOXICS POLICY? Yes

OPTIONAL: WHAT IS THE CAPITAL COST OF CONTROL EQUIPMENT? \$ N/A

TOXIC AIR CONTAMINANTS

Ohio EPA's air toxics policy applies to contaminants for which the American Conference of Governmental Industrial Hygienists (ACGIH) has a listed threshold limit value.

AIR TOXICS MODELING PERFORMED*? _____ YES _____ x NO

IDENTIFY THE AIR CONTAMINANTS: N/A