



Air Quality Permit Application

Form 7.0: Control Equipment Information

| | |
|--------------------------|---------------------------|
| FACILITY NAME: _____ | DATE: _____ |
| NDEQ Facility ID#: _____ | Emission Point ID#: _____ |

Section 7.2: Thermal Oxidizer

IMPORTANT: READ THE INSTRUCTIONS ACCOMPANYING THIS SECTION BEFORE COMPLETING.
 Do NOT use pencil to fill out this application. Please type responses or print using black ink.

| General Information | | |
|--|-----------------------|-----------------------------------|
| 1) Control Equipment ID#: | 2) Installation Date: | <input type="checkbox"/> New Unit |
| 3) Control Equipment Name/Description: | | |

| 4) Unit Information | | | | | |
|--|-----------|-----------|-------------------------------------|-------------------|--------------------------|
| List all the emission units that are controlled by the baghouse: | | | | | |
| Unit ID# | Unit Type | Unit Name | Maximum Capacity (include units) | Installation Date | New Unit |
| | | | | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |
| | | | | | <input type="checkbox"/> |

If more than four units' emissions are controlled by this thermal oxidizer, attach additional pages so that all emission units are accounted for.

| 5) Thermal Oxidizer Information | | |
|--|------------------------------------|---------------|
| Manufacturer: | Model Name: | Model Number: |
| Regenerative: Yes <input type="checkbox"/> No <input type="checkbox"/> | Combustion Chamber Volume (units): | |

| 6) Stack Information | | | | | <input type="checkbox"/> N/A |
|---|---------------------|----|---|----------------------|------------------------------|
| Height | Top Inside Diameter | | Stack Discharge | Exit Velocity of Gas | Exit Temperature of Gas |
| ft | ft | ft | <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> Vertical with Rain Cap | m/s | °K |
| Stack Testing Port(s) Present: Yes <input type="checkbox"/> No <input type="checkbox"/> | | | | | |

| Operational Information | | | |
|--|---|-----------------------------|---|
| 7) Enter heat input and fuel information: | | | |
| Maximum Rated Heat Input Capacity (MMBtu): | Maximum Hourly Potential Fuel Use (units): | | |
| Auxiliary Fuel Type: | Maximum Annual Potential Fuel Use: | | |
| 8) Complete all temperature information: | | | |
| Minimum Chamber Temperature: | C <input type="checkbox"/> F <input type="checkbox"/> | Combustion Temperature: | C <input type="checkbox"/> F <input type="checkbox"/> |
| Minimum Inlet Temperature: | C <input type="checkbox"/> F <input type="checkbox"/> | Maximum Inlet Temperature: | C <input type="checkbox"/> F <input type="checkbox"/> |
| Minimum Outlet Temperature: | C <input type="checkbox"/> F <input type="checkbox"/> | Maximum Outlet Temperature: | C <input type="checkbox"/> F <input type="checkbox"/> |
| 9) Temperature Monitoring: | | | |
| Continuous: Yes <input type="checkbox"/> No <input type="checkbox"/> | Other (describe): | | |
| Device: | Procedure(s): | | |
| Continuous: | | | |
| 10) Minimum Pollutant Residence Time Within Thermal Oxidizer (sec): | | | |
| 11) Describe Maintenance: | | | |

| 12) Control Information | |
|---|--|
| Uncontrolled Emission Rate (lb/hr): | Controlled Emission Rate (lb/hr): |
| Pollutant: | Capture Efficiency (%): |
| Pollutant: | Capture Efficiency (%): |
| Pollutant: | Capture Efficiency (%): |
| Test or Manufacturer's Data Available: Yes <input type="checkbox"/> No <input type="checkbox"/> | Test or Manufacturer's Data Attached: Yes <input type="checkbox"/> No <input type="checkbox"/> |



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Section 7.2: Thermal Oxidizer (continued)

| | |
|--|--|
| 13) Potential to Emit Calculations Attached? | <input type="checkbox"/> YES |
| 14) Additional Information Attached? | <input type="checkbox"/> YES <input type="checkbox"/> NO |

Complete the following ONLY if completing this Section as Part of an Operating Permit Application

| 15) Actual Operating Information | | | | | |
|--|--|--|--|--|--|
| Provide the operating hours and fuel use of this thermal oxidizer for the past five years (past year if new unit): | | | | | |
| Year | | | | | |
| Hours Operated | | | | | |
| Annual Fuel Use (units) | | | | | |
| Average Hourly Fuel Use (units) | | | | | |
| 16) Actual Emission Calculations Attached? <input type="checkbox"/> YES | | | | | |
| 17) Additional Information Attached? <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | | |