

OLYMPIC REGION CLEAN AIR AGENCY

2940 Limited Lane NW - Olympia, Washington 98502 - 360-539-7610 – Fax 360-491-6308

FORM 12 BAGHOUSE

| GENERAL INFORMATION | | |
|---|---|-----------------------------|
| Facility Name: | Contact Person: Phone Number: Email: | |
| Facility Operating Schedule: ____ hrs/day, ____ days/wk, ____ wks/yr Check days when operating: M T W Th F Sat Sun | Baghouse Operating Schedule: ____ hrs/day, ____ days/wk, ____ wks/yr Check days when operating: M T W Th F Sat Sun | |
| ____ new unit installation ____ modification | Manufacturer: | Model & Serial #s: |
| TECHNICAL SPECIFICATIONS | | |
| Air Flow: design acfm operating acfm temperature (F°) | System Parameters: pressure drop (inches water) water vapor content (lbs water/lb dry air) fan power (hp) | |
| Describe filter material: | | |
| Describe bag cleaning mechanism and cycle: | | |
| Describe operation of baghouse including use of safety bypasses, monitoring and maintenance schedules and any other pertinent information relating to particulate emissions (use additional pages if necessary): | | |
| PARTICULATE EMISSIONS DATA | | |
| Particulate Emissions: inlet (gr/scf) _____ outlet (gr/scf) _____ | Particulate Control Efficiency: filtering velocity (acfm/ft ² cloth) particulate control efficiency (%): | |
| Describe Particulate Emissions: | | |
| Micron Range: | Inlet Loading (% of total) | Outlet Loading (% of total) |
| 0 - 5 | _____% | _____% |
| 5 - 10 | _____% | _____% |
| greater than 10 | _____% | _____% |
| OTHER INFORMATION | | |
| The following information is needed to complete the application: 1. Manufacturer brochure or technical fact sheet for filter material. 2. Scaled technical drawings of the baghouse including top, side and interior views. 3. Manufacturer brochure or technical fact sheet for baghouse. | | |

Note: See back side of form for ORCAA approved equipment and operations.

REQUIREMENTS FOR NEW BAGHOUSES
ORCAA 1/4/96

1. **BACT for Particulate Control:** ORCAA may require demonstration of compliance based on measured stack grain loading in accordance to the procedures outlined in 40CFR Part 60 and in accordance with ORCAA's approved particulate source test procedures.

1.1 Low Temperature Process Streams - Grain Elevators, Barley Processing, Forest Products Dust, Large Cabinet Shops:

Particulate Limit: 0.01 gr/dscf
Opacity Limit: 5% for entire process stream.

These limits are appropriate for low temperature dust control when NOMEX bags are feasible.

1.2 High Temperature Process Streams - Ceramics, Metal Dust:

Particulate Limit: 0.01 gr/dscf
Opacity Limit: 5% for entire process stream.

1.3 Combustion Sources - Boilers, Asphalt Plants:

Particulate Limit: 0.02 gr/dscf (back half included)

Opacity Limit: 5% for entire process stream.

2. **Stack:** Emissions shall exit through a vertical stack at least 2 meters above the highest point of the baghouse. Permanent sampling ports and platforms shall be installed on the stack prior to commencement of operation. The sampling ports shall meet the requirements of 40, CFR Part 60, Appendix A, Method 1.

3. **Opacity Monitor (wood fired boilers):** Owners and operators of baghouses installed on wood fired boilers shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) for continuously monitoring the boiler stack gas opacity prior to exiting to the atmosphere.

3.1 The opacity CEMS shall be certified and installed in accordance 40CFR Part 60, Performance Specification 1 (appendix B).

3.2 The opacity CEMS shall be equipped with a strip chart recorder or data acquisition system (DAS) capable of computing and recording stack gas opacity in three consecutive minute averages. The data acquisition system or strip chart recorder shall record and display opacity values to 0.5% opacity.

3.3 Prior to installation of the CEMS, the owner or operator shall provide ORCAA a written manufacturers certificate of conformance with Performance Specification 1.

3.4 An opacity CEMS quality assurance plan conforming with 40 CFR Part 60 Appendix F and the EPA publication "Recommended Quality Assurance Procedures for Opacity Continuous Emissions Monitoring Systems" (EPA 340/1-86-010) shall be developed and submitted to ORCAA for approval no later than 180 days after commencement of operation.

3.5 The opacity CEMS shall be operational and tested for compliance with 40 CFR Part 60, Appendix B Performance Specification 1 no later than 90 days after initial startup.

4. **Other:** Other requirements include; 1) monitoring of pressure drop across baghouse, 2) bag monitoring and maintenance schedule, 3) full set of replacement bags on-site, 4) emission inventory reporting, and 5) excess emissions reporting.