OLYMPIC REGION CLEAN AIR AGENCY

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

NOC FORM 13
CYCLONES

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	**Cyclone** Operating Schedule: ____ hrs/day, ____ days/wk, ____wks/yr Check days when operating: M T W Th F Sat Sun

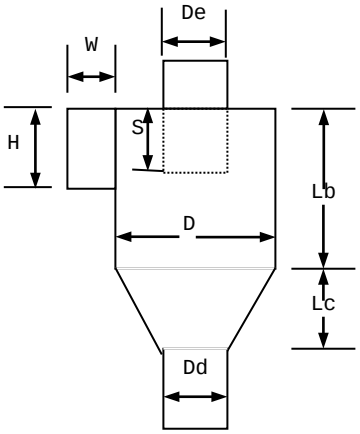
____ new unit ____ modification ____ # identical units	Manufacturer:	Model & Serial #s:

TECHNICAL SPECIFICATIONS

Air Flow: design acfm operating acfm	System Parameters: pressure drop (inches water) fan power (hp) temperature (°F or ambient)

Cyclone Design Parameters

S (in.)
H (in.)
De (in.)
Dd (in.)
W (in.)
D (in.)
Lb (in.)
Lc (in.)



Describe location of cyclone including height and related stack (use additional pages if necessary):

Describe operation of cyclone including use of safety bypass stacks (use additional pages if necessary):

PARTICULATE EMISSIONS DATA

Describe Particulate Emissions:

OTHER INFORMATION

The following information is needed to complete the application:
1. Manufacturer brochure or technical fact sheet for cyclone.

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

REQUIREMENTS FOR NEW CYCLONES
ORCAA 1/4/96

1. **BACT for Particulate Control:** ORCAA may require demonstration of compliance based on measured stack grain loading in accordance Oregon DEQ Method 8.

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.

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 (combustion units)**: Emissions shall exit through a vertical stack at least 2 meters above the highest point of the combustion system. 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 cyclones 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 manufacturer's 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 may include; 1) visual monitoring opacity of cyclone emissions, 2) no fugitive leaks from dust collection system, 3) emission inventory reporting, and 4) excess emissions reporting.