

Source Category Description:

Flour/grain milling, or blended flour, cereal preparation, and prepared feeds for animals and associated grain elevators located in Special Control Areas, $\geq 10,000$ tons processed per year.

1. Qualifications: For each qualification statement listed below, answer “yes” or “no” in the far right column.

a. Do the operations meet the description provided above?	
b. Are there any other activities identified in OAR 340-216-0020, Table 1?	
c. Are there any other activities not described above that cause air pollutant emissions?	
d. Is the facility currently in compliance with DEQ regulations?	
e. Have there been any violations in the last 5 years?	
f. If there have been violations, have they been resolved?	
g. Does the facility have the proper land use approvals? (For new sources, a Land Use Compatibility Statement (LUCS) must be attached to the application.)	

2. Plant Information:

a. Date the facility began or will begin operation? _____

b. Describe in *detail* the process, beginning with when material is received, through the production process, concluding with how the materials are shipped off site.

c. List how many of each type of milling equipment are used at the plant site.

- 1) Hammermill _____
- 2) Rollermill _____
- 3) Flaker _____
- 4) Grain Cracker _____
- 5) Cleaner _____
- 6) Grain/corn dryer _____
- 7) Pellet Cooler _____
- 8) Other (specify) _____

d. Does the milling equipment and/or pellet cooler vent to a control device? If yes, list the type of control devices and estimated efficiency for each process and show them on the plot plan.

Control Device	Efficiency	Process

- e. List the types of material processed and the maximum projected annual usage.
- | | | |
|----|-------|---------|
| 1) | _____ | tons/yr |
| 2) | _____ | tons/yr |
| 3) | _____ | tons/yr |
| 4) | _____ | tons/yr |

- f. Identify the maximum projected annual tons of final product shipped by shipment method.
- | | | |
|-----------------------|-------|---------|
| 1) Truck (bulk) | _____ | tons/yr |
| 2) Railcar (bulk) | _____ | tons/yr |
| 3) Pellitized product | _____ | tons/yr |
| 4) Bagged product | _____ | tons/yr |

- g. Is there a boiler on site used in the production process?
- | | |
|---|--|
| 1) Installation date | _____ |
| 2) Manufacturer | _____ |
| 3) Model # | _____ |
| 4) Serial # | _____ |
| 5) Rated design heat input (specify units) | _____ |
| 6) Is the boiler used seasonally or year round? | _____ |
| | Months per year _____ |
| | Projected hour per day _____ |
| | Projected maximum days per week _____ |
| | Projected maximum weeks per year _____ |

- h. Fuel information:
- | | Primary Fuel | Back-up Fuel |
|--|--------------|--------------|
| Type/grade of fuel | | |
| Average sulfur content (% by wt.) | | |
| Design hour usage (specify units) | | |
| Projected maximum annual usage (specify units) | | |

3. Maximum Projected Pollutant Emissions:

- a. Flour, cereal, or prepared feed process emissions: Calculate the maximum projected annual emissions using the following equation:

$$\text{Emission Factor (see below)} \times \text{Projected Annual Production (tons/yr)/2000} = \text{Pollutant Emissions (tons/yr)}$$

Activity	Emission Source	Maximum Projected Annual Production (tons/year)	Emission Factors (lb/ton)		Emissions (tons/yr)	
			PM	PM ₁₀	PM	PM ₁₀
Receiving	Truck or railcar		0.017	0.0025		
Cleaning	No Control		0.5	0.125		
	Cyclone		0.075	0.0187		
Milling						
Rollermill	No Control		70.0	35.0		
	Baghouse		0.07	0.035		
Hammermill	Cyclone		0.067	0.033		
	Baghouse		0.012	0.012		
Flaker	No Control		1.0	0.5		
	Cyclone		0.015	0.0075		
Grain Cracker	No Control		0.16	0.08		
	Cyclone		0.024	0.012		
Pellet Cooler	No Control		2.4	1.2		
	Cyclone		0.36	0.18		
	High Eff. Cyclone		0.15	0.075		
Grain Drying						
Column Dryer	No Control		0.22	0.055		
Rack Dryer	No Control		3.0	0.75		
Material Handling	No Control		0.061	0.034		
Bulk Shipping	No Control		0.0033	0.0008		

For activities with add-on pollution control devices such as a baghouse, the emission factors for the controlled activity are equal to 10% of the factors listed above, except where a baghouse is specified as expected equipment.

- b. Boiler emissions: Calculate the maximum projected annual emissions using the following equation:

Emission Factor (see below) x Projected Maximum Fuel Usage (see below)/2000 = Pollutant Emissions (tons/year)

Fuel type	Maximum Projected Annual Fuel Usage	Pollutant	Emission Factor	Emission Factor Units	Emissions (tons/yr.)
Natural gas	10 ⁶ ft ³	PM	2.5	lb/10 ⁶ ft ³	
		PM ₁₀	2.5		
		SO ₂ ⁽¹⁾	2.6		
		NO _x	100		
		CO	84		
		VOC	5.5		
Propane	gallons	PM	0.22	lb/1000 gal.	
		PM ₁₀	0.22		
		SO ₂	0.23		
		NO _x	13.5		
		CO	7.5		
		VOC	0.49		
Oil	gallons	PM	11.5	lb/1000 gal.	
		PM ₁₀	8.2		
		SO ₂	71		
		NO _x	55		
		CO	5		
		VOC	1.1		

3. Permit Requirements:

All conditions of the General ACDP apply to the source, unless they are listed below. These permit conditions may or may not apply to the plant, depending on the actual processes, controls, and compliance determination methods. For each permit condition listed below, indicate whether the condition applies to your plant by answering the question.

Permit condition	Applicability question:	Answer (yes/no)
2.1.a	Is the facility located outside of Clackamas, Columbia, Multnomah and Washington Counties?	
2.1.b	Is the facility located in Clackamas, Columbia, Multnomah or Washington Counties?	
2.5.a	Is distillate or residual oil burned at the site?	
2.5.b	Is on-specification used oil burned at the site?	
3.1 & 3.7	Were any of the boilers with heat inputs between 10 and 100 million Btu/hr installed, constructed, or modified after June 9, 1989?	

3.3	Are there any boilers with a heat input greater than 30 million Btu/yr that burn oil and were installed, constructed, or modified after Jun 9, 1989?	
3.4	If the answer to 3.3 is "yes", is residual oil burned in any of the boilers?	
3.5, 3.6, 3.8 & 3.10	Do any of the boilers with heat inputs between 10 and 100 million Btu burn oil?	
3.11, 3.12, 3.13, 3.14	Was the facility constructed, modified, or reconstructed after August 3, 1978?	
3.15 & 3.16	If the answers to 3.1 or 3.11 are "yes", is this a new facility?	
4.2 & 4.3	Is the facility located in the Medford-Ashland AQMA or Lakeview UGB?	
5.2	Is the facility located in the Medford-Ashland AQMA?	
6.1	If the answer to 3.1 is "yes", is this a new facility?	
6.2	If the answer to 3.11 is "yes", is this a new facility?	
8.3	Is this a new plant?	