



# PSD APPLICABILITY FORM

This form is an aid to help determine if a proposed project will be required to undergo PSD review. Please submit this form with the cover sheet of the Notice of Construction application to the Local Air Authority. For locations in eastern Washington where the Department of Ecology is the delegated local air authority, submit this form to the appropriate Ecology Regional Office.

It is the responsibility of the applicant to ensure that all preconstruction permits are obtained before commencement of construction.

## COMPANY INFORMATION

Company or owner name: Cherry Point Cogeneration Project

Mailing address: 4519 Grandview Road

Blaine, WA 98230

Facility address: same

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Contact: Mr. Mark Moore

Telephone: 360-371-1200

Facility industrial classification and SIC: Turbines and turbine generator sets; SIC Code 3511

## PROCESS INFORMATION AND EMISSIONS CALCULATIONS

This section is intended to furnish a best estimate of annual emissions and sufficient information for agency technical staff to verify the applicant's conclusions in answering the questions in the next section. Please provide:

- (1) A description of the process with a flow diagram indicating points of emissions to the air.
- (2) Design and operating parameters for the process (i.e., hours of operation per year, maximum and normal production rates, fuel and raw material requirements).
- (3) Estimates of the potential emissions for all air pollutants from each emissions point and a description of the method or basis used to make the emission estimates (in enough detail so that one can follow the logic and the calculation steps). Potential emissions are based on the maximum rate from each emission point taking into account air pollution control equipment.

For either a new or modified source, calculate its potential to emit each regulated pollutant based on operation at maximum capacity (such as 8760 hours/year) with emissions control equipment operating.

For a modified source, subtract the actual emissions of the existing source from the potential to emit of the modified source to calculate the emissions increase(decrease). Actual emissions are the average of the last 24 months of operation, if that period is representative of normal operations.

Regulated Pollutant Under PSD	Potential To Emit Tons/Year	Actual Emissions Tons/Year	Emissions Increase (Decrease)	Significant PSD Rate Tons/Year
Carbon Monoxide	158			100
Nitrogen oxides	220			40
Sulfur dioxide	51			40
Particulate matter PM <sub>10</sub>	262			25 15
Ozone (VOCs)	58			40
Lead (elemental)	0			0.6
Fluorides	0			3
Sulfuric acid mist	35			7
Total reduced sulfur (including H <sub>2</sub> S)	0			10
Reduced sulfur compounds (including H <sub>2</sub> S)	0			10
Municipal waste combustor organics Dioxins and furans Metals	0			3.5x10 <sup>-6</sup> 15
Municipal waste combustor acid gasses	0			40

### QUESTION 1

Does the proposed source or, in the case of a modification to a source, the existing source fall within one of the following 28 source categories?

1. Fossil fuel-fired steam electric plants of more than 250 million Btu/hr heat input
2. Coal cleaning plants with thermal dryers
3. Kraft pulp mills
4. Portland cement plants
5. Primary zinc smelters
6. Iron and steel mill plants
7. Primary aluminum ore reduction plants
8. Primary copper smelters
9. Municipal incinerators capable of charging more than 250 tons of refuse per day
10. Hydrofluoric acid plants
11. Sulfuric acid plants
12. Nitric acid plants
13. Petroleum refineries
14. Lime plants
15. Phosphate rock processing plants
16. Coke oven batteries
17. Sulfur recovery plants
18. Carbon black plants (furnace process)
19. Primary lead smelters
20. Fuel conversion plants
21. Sintering plants
22. Secondary metal production plants
23. Chemical process plants
24. Fossil fuel boilers (or combinations) totaling more than 250 million Btu/hr heat input
25. Petroleum storage and transfer units with a total storage capacity exceeding 300,000 barrels
26. Taconite ore processing plants
27. Glass fiber processing plants
28. Charcoal production plants

YES  X  (Please circle number.) GO TO QUESTION 2.

NO \_\_\_\_\_ GO TO QUESTION 3.

### QUESTION 2

Will emissions of any one regulated pollutant (including fugitive emissions) from the proposed or existing source potentially exceed 100 tons per year?

YES  X  GO TO QUESTION 6.

NO \_\_\_\_\_ PSD IS NOT REQUIRED. DO NOT ANSWER ANY MORE QUESTIONS. SUBMIT THIS FORM WITH THE NOTICE OF CONSTRUCTION APPLICATION.

### QUESTION 3

Does the proposed source or, in the case of a modification to a source, the existing source fall within one of the following source categories?

1. Municipal Incinerators ( $\geq 50$  tons/day)
2. Asphalt concrete plants
3. Storage vessels for petroleum liquids,  $\geq 40,000$  gallons, construction after 06/11/73 and prior to 05/19/78.
4. Storage vessels for petroleum liquids,  $\geq 40,000$  gallons, construction after 05/18/78
5. Sewage treatment plants with sludge incinerators
6. Phosphate fertilizer industry: Plants manufacturing wet-process phosphoric acid, superphosphoric acid, diammonium phosphate, triple superphosphate, and granular triple superphosphate storage facilities.
7. Glass melting furnace  $\geq 4,555$  kilograms glass/day, (except all electric melters)
8. Grain elevators
9. Stationary gas turbines  $\geq 10.7$  gigajoules/hour heat input
10. Lead acid battery manufacturing plants
11. Automobile and light-duty truck assembly plant surface coating operations

YES \_\_\_\_\_ (Please Circle Number) GO TO QUESTION 4

NO \_\_\_\_\_ GO TO QUESTION 5

QUESTION 4

Will the emissions of any one regulated pollutant (including fugitive emissions) from the proposed or existing source potentially exceed 250 tons/year?

YES \_\_\_ GO TO QUESTION 6

NO \_\_\_ PSD IS NOT REQUIRED. DO NOT ANSWER ANY MORE QUESTIONS. SUBMIT THIS FORM WITH THE NOTICE OF CONSTRUCTION APPLICATION.

QUESTION 5

Will emissions of any one pollutant (not including fugitive emissions) from the proposed or existing source potentially exceed 250 tons per year?

YES \_\_\_ GO TO QUESTION 6.

NO \_\_\_ PSD IS NOT REQUIRED. DO NOT ANSWER ANY MORE QUESTIONS. SUBMIT THIS FORM WITH THE NOTICE OF CONSTRUCTION APPLICATION.

QUESTION 6

Is the project located within 10 kilometers (6.2 miles) of the boundary of a Class I area? Class I areas in Washington State are Mount Rainier National Park, North Cascade National Park, Olympic National Park, Alpine Lakes Wilderness Area, Glacier Peak Wilderness Area, Goat Rocks Wilderness Area, Mount Adams Wilderness Area, Pasayten Wilderness Area, and the Spokane Indian Reservation.

YES \_\_\_ PSD REVIEW IS REQUIRED IF THE IMPACT OF ANY REGULATED POLLUTANT IS EQUAL TO OR GREATER THAN 1 µg/m<sup>3</sup>, (24-hour average).

NO X CONTINUE

QUESTION 7

Is the proposed project a

1. X new source? GO TO QUESTION 8.

2. \_\_\_ modification, expansion, or addition to an existing source? GO TO QUESTION 9.

QUESTION 8

For which regulated pollutants does the potential to emit of the new source exceed the PSD significant rate? CO, NO<sub>x</sub>, SO<sub>2</sub>, particulate matter, VOCs, sulfuric acid mist

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PSD REVIEW IS REQUIRED FOR THESE POLLUTANTS. YOU MUST MEET WITH THE DEPARTMENT OF ECOLOGY TO DISCUSS THE PSD APPLICATION PROCEDURE.

QUESTION 9

For which regulated pollutants do the emissions increase from the modified source exceed the PSD significant rate?

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