



General Order Application: Dairy Anaerobic Digesters

I. INSTRUCTIONS

This application applies statewide for facilities under the Department of Ecology’s jurisdiction. Fill out the form completely in order to obtain coverage.

- Read the Dairy Anaerobic Digester General Order. You can find it online at http://www.ecy.wa.gov/programs/air/AOP_Permits/Boiler/GeneralOrders.htm , or call the appropriate regional office (see below) for a copy.
- Fill out the application completely, sign it, and date it.
- Enclose manufacturer’s specification sheets for all engine-generators and flares to be installed. Include digester design information including all digester gas treatment systems to be installed.
- Enclose a copy of site plan from construction plans. Show distances of all engine stacks and flares from nearby buildings and from adjacent buildings. Provide roof ridge line height of all adjacent buildings.
- Enclose a check for **\$875** made out to the Department of Ecology for the application fee.
- Mail the complete application package to:

For Fiscal Office Use Only:
001-NSR-216-0299-000404

**Department of Ecology
Cashiering Unit
P.O. Box 47611
Olympia, WA 98504-7611**

Check the box for the location of your proposed digester facility. For assistance, call the appropriate office listed below:

<input type="checkbox"/>	Chelan, Douglas, Kittitas, Klickitat, or Okanogan County Ecology Central Regional Office (509) 575-2490	CRO
<input type="checkbox"/>	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Stevens, Walla Walla, or Whitman County Ecology Eastern Regional Office (509) 329-3400	ERO
<input type="checkbox"/>	San Juan County Ecology Northwest Regional Office (425) 649-7000	NWRO

II. COMPANY INFORMATION

1. Company Name:		
2. Company Mailing Address (street, city, state, zip):		
3. Company Contact Person, Title:	4. Company Phone Number:	5. Company Fax Number:
6. Contact Person Phone Number:	7. E-Mail Address:	

III. SYSTEM INFORMATION

DIGESTER SIZE INFORMATION

1. Digester design <input type="checkbox"/> Complete Mix <input type="checkbox"/> Plug Flow <input type="checkbox"/> Mixed Plug Flow <input type="checkbox"/> Other _____	
2. Digester operating temperature <input type="checkbox"/> Mesophilic <input type="checkbox"/> Thermophilic <input type="checkbox"/> Psychrophilic	
3. Digester volume _____	4. Design hydraulic detention time _____ days
5. Design solids content digester feed _____	6. Number of cows contributing manure to system _____
7. Will additional digester feedstocks be used? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, list types, sources, and quantities: _____	
8. Will facility limit usage of non-dairy manure feedstock to comply with the Solid Waste Permit exemption in RCW 70.95.330? <input type="checkbox"/> Yes <input type="checkbox"/> No	
9.a. Describe method to be used to control hydrogen sulfide in the digester gas _____	
9.b. What is the design hydrogen sulfide concentration before and after (or with and without the control in operation) the control method? _____ Hydrogen sulfide concentration _____ Before control, _____ After control	
10. Design digester gas production rate _____ cu. ft./day _____ cu. ft./year	Methane content _____ % Heat content _____ Btu/scf

11. Provide manufacturer's specification information on any power generators listed below. Attach additional sheets if there are more than 2 engines.
 Include a copy of the engine manufacturer's engine datasheet for each engine to be installed.

12a. Engine manufacturer: _____ Model: _____ Year of manufacture: _____ Engine size: _____ hp Max electrical output: _____ kWe Height of exhaust stack: _____ feet Diameter of exhaust stack: _____ feet Maximum hourly fuel Consumption: _____ cu. ft /hr	12b. Engine manufacturer: _____ Model: _____ Year of manufacture: _____ Engine size: _____ hp Max electrical output: _____ kWe Height of exhaust stack: _____ feet Diameter of exhaust stack: _____ feet Maximum hourly fuel Consumption: _____ cu. ft /hr
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13. Warranted emission rates from engine data sheet

13a. Engine a NOx: _____ g/bhp-hr or _____ ppm CO: _____ g/bhp-hr or _____ ppm VOC: _____ g/bhp-hr or _____ ppm	13b. Engine b NOx: _____ g/bhp-hr or _____ ppm CO: _____ g/bhp-hr or _____ ppm VOC: _____ g/bhp-hr or _____ ppm
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14. Flare Flare 1 Manufacturer: _____ Model: _____ Type: _____ Rating: _____ BTU/hr Height: _____ feet	Flare 2 Manufacturer: _____ Model: _____ Type: _____ Rating: _____ BTU/hr Height: _____ feet
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IV. SIGNATURE BLOCK

I certify, based on information and belief formed after reasonable inquiry, the statements and information in this application are true, accurate, and complete.	
Printed Name _____	Title _____
Signature _____	Date _____

If you need this document in a format for the visually impaired, call the Air Quality Program at 360-407-6800. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.