



# General Order Application: Dairy Anaerobic Digesters

## I. Instructions

This application applies state-wide for facilities under the Department of Ecology’s jurisdiction. Fill out the form completely to obtain coverage.

- Read the Dairy Anaerobic Digester General Order. You can find it online at <https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Air-Quality-permits/Air-quality-general-orders>, or call the appropriate regional office (see below) for a copy.
- Answer all the questions and sign and date the application.
- 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 to the Department of Ecology for the application fee.
- State Environmental Policy Act (SEPA) Compliance:
  - \$1,093 application fee** if SEPA review is complete – Include a copy of the final SEPA checklist and SEPA determination (e.g. DNS, MDNS, EIS) with your application.
  - \$1,450 application fee** if SEPA review is required – If SEPA review has not been conducted, please fill out a SEPA checklist and submit it with your application. You can find a SEPA checklist online at <https://ecology.wa.gov/Regulations-Permits/SEPA/Environmental-review/SEPA-guidance>.

**Department of Ecology  
Cashiering Unit  
PO Box 47611  
Olympia, WA 98504-7611**

For Fiscal Office Use Only: 0299-3030404-B00-216--001--000404

**Check the box for the location of your proposal.** For assistance, call the appropriate office listed below:

Check box	County	Regional Office
<input type="checkbox"/>	<b>Chelan, Douglas, Kittitas, Klickitat, or Okanogan County</b> Ecology Central Regional Office (509) 575-2490	CRO
<input type="checkbox"/>	<b>Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Stevens, Walla Walla, or Whitman County</b> Ecology Eastern Regional Office (509) 329-3400	ERO
<input type="checkbox"/>	<b>San Juan County</b> Ecology Northwest Regional Office (206) 594-0000	NWRO
<input type="checkbox"/>	<b>For actions taken at Kraft and Sulfite Paper Mills and Aluminum Smelters Only</b> Ecology Industrial Section (360) 407-6900	IND
<input type="checkbox"/>	<b>For actions taken on the US Department of Energy Hanford Reservation Only</b> Ecology Nuclear Waste Program (509) 372-7950	NWP

## II. Company Information

1. Company Name: \_\_\_\_\_
2. Company Mailing Address (street, city, state, zip):  
\_\_\_\_\_
3. Company Phone #: \_\_\_\_\_
4. Company Fax #: \_\_\_\_\_
5. Company Contact Person, Title: \_\_\_\_\_
6. Contact Person Phone #: \_\_\_\_\_
7. Contact Person Email Address: \_\_\_\_\_

## III. System Information – Digester Size

1. Digester design:  Complete Mix  Plug Flow  Mixed Plug Flow  Other \_\_\_\_\_
2. Digester operating temperature:  Mesophilic  Thermophilic  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?  Yes  No
  - a. 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?  Yes  No
9. Hydrogen sulfide control
  - a. Describe method to be used to control hydrogen sulfide in the digester gas:  
\_\_\_\_\_
  - b. What is the design hydrogen sulfide concentration before and after (of with and without the control in operation) the control method? before control: \_\_\_\_\_  
after control: \_\_\_\_\_
10. Design digester gas production rate: \_\_\_\_\_ cu. ft./day, Methane content: \_\_\_\_\_ %, \_\_\_\_\_ cu. ft./year, 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.

Power generator 1

Engine manufacturer: \_\_\_\_\_

Model: \_\_\_\_\_

Year of manufacture: \_\_\_\_\_

Engine size: \_\_\_\_\_ bhp

Max electrical output: \_\_\_\_\_ kWe

Height of exhaust stack: \_\_\_\_\_ ft

Diameter of exhaust stack: \_\_\_\_\_ ft

Max fuel consumption: \_\_\_\_\_ gal/hr

Power generator 2

Engine manufacturer: \_\_\_\_\_

Model: \_\_\_\_\_

Year of manufacture: \_\_\_\_\_

Engine size: \_\_\_\_\_ bhp

Max electrical output: \_\_\_\_\_ kWe

Height of exhaust stack: \_\_\_\_\_ ft

Diameter of exhaust stack: \_\_\_\_\_ ft

Max fuel consumption: \_\_\_\_\_ gal/hr

12. Warranted emission rates from engine data sheet:

Power generator 1

NO<sub>x</sub>: \_\_\_\_\_ g/bhp-hr or \_\_\_\_\_ ppm

CO: \_\_\_\_\_ g/bhp-hr or \_\_\_\_\_ ppm

VOC: \_\_\_\_\_ g/bhp-hr or \_\_\_\_\_ ppm

Power generator 2

NO<sub>x</sub>: \_\_\_\_\_ g/bhp-hr or \_\_\_\_\_ ppm

CO: \_\_\_\_\_ g/bhp-hr or \_\_\_\_\_ ppm

VOC: \_\_\_\_\_ g/bhp-hr or \_\_\_\_\_ ppm

13. Flare

Flare 1

Manufacturer: \_\_\_\_\_

Model: \_\_\_\_\_

Type: \_\_\_\_\_

Rating: \_\_\_\_\_ Btu/hr

Height: \_\_\_\_\_ feet

Flare 2

Manufacturer: \_\_\_\_\_

Model: \_\_\_\_\_

Type: \_\_\_\_\_

Rating: \_\_\_\_\_ Btu/hr

Height: \_\_\_\_\_ feet

#### 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 \_\_\_\_\_

To request ADA accommodation, call Ecology at (360) 407-6800, 711 (relay service), or (877) 833-6341 (TTY).