



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
☐	Chelan, Douglas, Kittitas, Klickitat, or Okanogan County Ecology Central Regional Office (509) 575-2490	CRO
☐	Adams, Asotin, Columbia, Ferry, Franklin, Garfield, Grant, Lincoln, Pend Oreille, Stevens, Walla Walla, or Whitman County Ecology Eastern Regional Office (509) 329-3400	ERO
☐	San Juan County Ecology Northwest Regional Office (206) 594-0000	NWRO
☐	For actions taken at Kraft and Sulfite Paper Mills and Aluminum Smelters Only Ecology Industrial Section (360) 407-6900	IND
☐	For actions taken on the US Department of Energy Hanford Reservation Only 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_x: _____ g/bhp-hr or _____ ppm

CO: _____ g/bhp-hr or _____ ppm

VOC: _____ g/bhp-hr or _____ ppm

Power generator 2

NO_x: _____ 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).