

Name of Applicant:	Name of Facility:
Business Address:	Facility Address:
City: State: Zip Code:	City: State: Zip Code:
Phone: Email:	Phone: Email:
Signature:	Date:

\*Please reference the appropriate section of WAC 173-350 for full requirements.

<input type="checkbox"/> <b>Location Requirements WAC 173-350-250(3)</b>	<b>Location of documents in application</b>	<b>Complete (SHD ONLY)</b>
There are no specific location standards for anaerobic digesters subject to this chapter; however, anaerobic digesters must meet the performance standards of WAC 173-350-040.		<input type="checkbox"/>

<input type="checkbox"/> <b>Design Standards WAC 173-350-250(4)</b>	<b>Location of documents in application</b>	<b>Complete (SHD ONLY)</b>
Prepare and provide SHD engineering reports, plans, specifications, and a construction quality assurance plan that address the standards of this subsection. The reports, plans, and specifications must be prepared by a professional engineer registered in the state of Washington and must include: (4)(a)	<b>Acknowledged</b> <input type="checkbox"/>	<input type="checkbox"/>
<ul style="list-style-type: none"> <li>An engineering report that presents the design basis and calculations for the engineered features of the facility (4)(a)(i)</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Scale drawings of the facility (4)(a)(ii)</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Design specifications for the engineered features of the facility (4)(a)(iii)</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>A construction quality assurance plan (4)(a)(iv)</li> </ul> <b>NA</b> <input type="checkbox"/> if not new construction		<input type="checkbox"/>
Provide all-weather roads from the public highway to and within the facility when operations require public access (4)(b)		<input type="checkbox"/>
Design waste receiving areas, digesters, digestate management features, stormwater, and leachate management features (if applicable), to prevent contamination of air, soil, surface water, and groundwater (4)(c)		<input type="checkbox"/>
Feedstock, leachate (if applicable), and digestate receiving and storage areas must either be in tanks or surface impoundments meeting the requirements of this section, or be on pads to prevent contamination of air, soil, surface water, and groundwater underlying or adjacent to receiving and storage areas; (4)(c)(i)		<input type="checkbox"/>
Pads must meet the following requirements: (4)(c)(ii)		

<ul style="list-style-type: none"> <li>All pads must be curbed or graded in a manner to prevent ponding, control run-on and runoff, and separately collect and convey all stormwater and leachate to separate storage or holding systems. Stormwater that is combined with leachate must be treated as leachate in accordance with this section</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>All pads must be constructed on subgrades that provide sufficient bearing capacity to support the weight of the pad, the materials placed on them, and the equipment used in handling the materials</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>The entire surface area of the pad must be designed to maintain its structural and hydraulic integrity against loads resulting from feedstock and digestate storage, machinery used for feedstock handling, and against surface wear or damage caused by feedstock and digestate handling and storage</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>The pad may be constructed of materials such as concrete (with sealed joints) or asphaltic concrete that prevents subsurface soil and groundwater contamination</li> </ul>		<input type="checkbox"/>
<p>The anaerobic digester design must comply with one of the following conditions: (4)(c)(iii)</p> <p>(A) Design criteria in the Natural Resources Conservation Service's Washington Conservation Practice Standard, Anaerobic Digester Code 366 in effect October 2010, or other effective date as specified by the department; or</p> <p>(B) Surface impoundment and tank design standards, WAC 173-350-330(4)</p>		<input type="checkbox"/>
<p>Stormwater management features must divert stormwater from feedstock receiving and storage areas, and from digestate collection and storage areas (4)(c)(iv)</p>		<input type="checkbox"/>
<p>Leachate management features may include, but are not limited to, runoff prevention systems, leachate collection, conveyance, storage structures, and treatment systems (4)(c)(v)</p>		<input type="checkbox"/>
<p>Leachate (if applicable) must be contained or collected. Any discharge to sanitary sewer requires additional permitting by the local delegated authority or department (4)(c)(vi)</p>		<input type="checkbox"/>
<p>Leachate ponds or tanks, or digestate liquid storage in ponds or tanks must meet one of the following conditions: (4)(c)(vii)</p>		<input type="checkbox"/>
<p>(A) Ponds must meet Natural Resources Conservation Service Standard for a waste storage facility in the 2001 Washington Field Office Technical Guide 313 (revised June 2011)</p> <p>NA <input type="checkbox"/> if condition (B) or (D) is met</p>		<input type="checkbox"/>
<p>(B) Ponds must have a liner consisting of a minimum 30-mil thickness geomembrane on a subgrade that provides sufficient bearing capacity to support the liner and the contents of the pond. A liner constructed with a high density polyethylene geomembrane must be at least 60-mil thick to allow for proper welding and:</p> <p>NA <input type="checkbox"/> if condition (A), or D is met</p>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Have dikes and slopes designed to maintain their structural integrity under conditions of a leaking liner and capable of withstanding erosion from wave action, overfilling, or precipitation</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Have freeboard (distance between the liquid level and the top of the pond) equal to or greater than eighteen inches to avoid overtopping from wave action, overfilling, or precipitation.</li> </ul>		<input type="checkbox"/>
<p>(D) Tanks used to store leachate or digestate liquid must meet design standards in WAC 173-350-330 (4)(b).</p> <p>NA <input type="checkbox"/> if condition (A) or (B) is met</p>		<input type="checkbox"/>
<p>Leachate ponds and digestate liquid storage that have the potential to impound more than 10-acre feet (three million two hundred fifty-nine thousand gallons) of liquid measured from the top of the dike and that would be released by a failure of the containment dike must be reviewed and approved by Ecology's dam safety section (4)(c)(viii)</p>		<input type="checkbox"/>

<input type="checkbox"/> <b>Documentation WAC 173-350-250(5)</b>	<b>Location of documents in application</b>	<b>Complete (SHD ONLY)</b>
Within thirty days of completing construction, the owner or operator of an anaerobic digestion facility must provide the following materials to the SHD and Ecology:		
<ul style="list-style-type: none"> <li>Copies of the construction record drawing for engineered features at the facility; and</li> </ul>	<b>Acknowledged</b> <input type="checkbox"/>	
<ul style="list-style-type: none"> <li>A report documenting facility construction, including the results of observations and testing carried out as part of the construction quality assurance plan.</li> </ul>	<b>Acknowledged</b> <input type="checkbox"/>	

<input type="checkbox"/> <b>Operating Standards WAC 173-350-250(6)</b> Describe how the facility meets the regulatory requirements in the supporting documents. Indicate the location of all documents.	<b>Location of documents in application</b>	<b>Complete (SHD ONLY)</b>
Control air contaminants to prevent these and other contaminants from migrating beyond property boundaries (6)(a)(i)		<input type="checkbox"/>
Prevent the attraction of vectors (6)(a)(ii)		<input type="checkbox"/>
Prevent the migration of agricultural pests identified by the local horticultural pest and disease control boards as applicable (6)(a)(iii) NA <input type="checkbox"/>		<input type="checkbox"/>
Confine organic materials prior to and after processing to specifically designated areas, meeting the applicable standards of this section (6)(a)(iv)		<input type="checkbox"/>
Ensure that dangerous waste is not accepted, treated, or stored (6)(a)(v)		<input type="checkbox"/>
Ensure the facility operates under the supervision and control of a properly trained individual during hours of operation when facility staffing is required (6)(a)(vi)		<input type="checkbox"/>
Ensure facility employees are trained in appropriate facility operations, maintenance procedures, and safety and emergency procedures according to individual job duties and according to an approved plan of operation (6)(a)(vii)		<input type="checkbox"/>
Restrict access to the facility when the facility is closed (6)(a)(viii)		<input type="checkbox"/>
Inspect the facility to prevent malfunctions and deterioration, operator errors, and discharges (6)(b)		<input type="checkbox"/>
Maintain operating records of the following: (6)(c)		
<ul style="list-style-type: none"> <li>Process monitoring data as described in the plan of operation;</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>The quantity in gallons or cubic yards, and types of feedstocks received;</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Results of analysis for digestate that is sold or distributed, according to subsection (5)(e) of this section; and</li> </ul>		<input type="checkbox"/>

<ul style="list-style-type: none"> <li>Facility inspection reports. Significant deviations from the plan of operation must be noted in the operating record. Records must be kept for a minimum of five years and must be available upon request by SHD</li> </ul>		<input type="checkbox"/>
Prepare and submit an annual report to SHD and Ecology by April 1st of each calendar year for activities during the previous calendar year (6)(d)	<b>Acknowledged</b> <input type="checkbox"/>	<input type="checkbox"/>
If distributing digestate (solids, semi-solids, or liquids) off-site, produce and manage the product so that it does not harm human health or the environment; and: (6)(e)		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Test representative samples of digestate solids every 5,000 cubic yards to demonstrate it meets compost quality standards in WAC 173-350-220(6) (Table 220-B). An alternate testing frequency may be required or approved by SHD; or</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Ensure digestate meets the conditions for a commercial fertilizer as applicable in chapter 15.54 RCW, Fertilizers, minerals, and limes; or</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Send digestate to a permitted compost facility for further processing; or</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Land apply digestate in accordance with WAC 173-350-230, Land application; or</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Use digestate in accordance with WAC 173-350-200, Beneficial use permit exemption; or</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Apply digestate on agricultural lands at agronomic rates in accordance with a dairy nutrient management plan or a nutrient management plan; or</li> </ul>		<input type="checkbox"/>
Develop, keep, and follow a plan of operation approved as part of the permitting process. Each plan of operation must include the following: (6)(f)		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>A description of the types of feedstocks to be handled at the facility. Feedstocks must be approved by Ecology or SHD;</li> </ul>		<input type="checkbox"/>
<ul style="list-style-type: none"> <li>Procedures for ensuring that only feedstocks described will be accepted;</li> </ul>		
<ul style="list-style-type: none"> <li>Procedures for handling unacceptable wastes;</li> </ul>		
<ul style="list-style-type: none"> <li>A plan for processing digestate to meet the requirements of (e) of this subsection, if distributing digestate off-site;</li> </ul>		
<ul style="list-style-type: none"> <li>A nutrient management plan for agricultural lands and farm lands (as described in RCW 84.34.020) if using digestate on-site;</li> </ul>		
<ul style="list-style-type: none"> <li>A description of how facility staff will be appropriately trained;</li> </ul>		
<ul style="list-style-type: none"> <li>A calculation of monthly processing capacity based on maximum volume (cubic yards or gallons) of all materials on-site at any one time. All materials on-site include feedstocks, digesting materials and digestate;</li> </ul>		

<ul style="list-style-type: none"> <li>A material flow plan describing general procedures to manage all materials on-site. All materials on-site include incoming feedstock, digesting materials, and digestate;</li> </ul>		
<ul style="list-style-type: none"> <li>An odor management plan including, but not limited to, the following components: <ul style="list-style-type: none"> <li>(A) Methods for treating emissions to reduce odors, if any;</li> <li>(B) A community relations plan to address odor issues should they arise; and</li> <li>(C) A description of facility and operational improvements that could be made, if nuisance odors are identified beyond the facility's property boundary, as determined by SHD, Ecology, or the permitting air authority. The description of operational improvements must address feedstock receiving, processing, and digestate storage areas of the facility.</li> </ul> </li> </ul>		
<p>A description of how equipment, structures, and other systems will be inspected and maintained, including frequency of inspection and inspection logs. This description must include, but is not limited to: (6)(f)(x)</p> <p>(A) The groundwater monitoring system, if required;</p> <p>(B) The overfilling prevention equipment, including details of filling and emptying techniques; and</p> <p>(C) The liners of surface impoundments and tanks, tank piping, and secondary containment, as applicable.</p>		
Safety, fire, and emergency plans including a spill prevention/response plan (6)(f)(xi)		
The forms used to record volumes (in cubic yards or gallons) of accepted feedstocks (6)(f)(xii)		
Other details to demonstrate that the facility is operated in accordance with this chapter and as required by SHD (6)(f)(xiii)		

<input type="checkbox"/> <b>Ground Water Monitoring Requirements WAC 173-350-250(7)</b>	<b>Location of documents in application</b>	<b>Complete (SHD ONLY)</b>
There are no specific groundwater monitoring requirements for anaerobic digestion facilities subject to this chapter; however, anaerobic digestion facilities must meet the performance standards of WAC 173-350-040.		<input type="checkbox"/>

<input type="checkbox"/> <b>Closure Requirements WAC 173-350-250(8)</b>	<b>Location of documents in application</b>	<b>Complete (SHD ONLY)</b>
Describe how the facility meets the regulatory requirements in the supporting documents. Indicate the location of all documents.		
Develop, keep, and follow a closure plan approved by SHD as part of the permitting process		<input type="checkbox"/>

<input type="checkbox"/> <b>Financial Assurance Requirements WAC 173-350-250(9)</b>	<b>Location of documents in application</b>	<b>Complete (SHD ONLY)</b>
There are no specific financial assurance requirements for anaerobic digestion facilities subject to this chapter; however, anaerobic digestion facilities must meet the performance standards of WAC 173-350-040		<input type="checkbox"/>

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