



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

One Winter Street Boston, MA 02108 • 617-292-5500

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CERTIFICATION FOR GENERAL USE

Pursuant to Title 5, 310 CMR 15.000

Name and Address of Applicant:

Orenco Systems, Inc
814 Airway Ave.
Sutherlin, OR 97479

Trade name of technology and model number: ProStep™ Effluent Pumping Systems – PSA-X and PSB-X Biotube® Pump Vault – PVU-X and PV-X (hereinafter the "System"). Schematic drawings of the System, operating manual and inspection checklist are available from the manufacturer.

Transmittal Number: **X227956**

Date of Issuance: September 29, 2009, revised March 20, 2015

Authority for Issuance

Pursuant to Title 5 of the State Environmental Code, 310 CMR 15.000, the Department of Environmental Protection hereby issues this Certification to: Orenco Systems, Inc 814 Airway Ave. Sutherlin, OR 97479 (hereinafter "the Company"), for General Use in the Commonwealth of Massachusetts of the System described herein. Sale and use of the System are conditioned on and subject to compliance by the Company and the System owner with the terms and conditions set forth below. Any noncompliance with the terms or conditions of this Certification constitutes a violation of 310 CMR 15.000.

David Ferris, Director
Wastewater Management Program
Bureau of Water Resources

March 20, 2015

Date

I. Purpose

1. The purpose of this Certification is to allow the use of the System in Massachusetts on a General Use basis.
2. With the necessary permits and approvals required by 310 CMR 15.000, this Certification authorizes the use of the System in Massachusetts.
3. The System may be installed on all facilities where a system in compliance with 310 CMR 15.000 exists on site or could be built and for which a site evaluation in compliance with 310 CMR 15.000 has been approved by the local approving authority; or by DEP if DEP approval is required by 310 CMR 15.000.

II. Design Standards

1. The System consists of a filter cartridges mounted in a pump vault that is placed in the outlet end of the septic tank. The pumping vault is designed for use with 4 inches turbine effluent pump. The filter cartridges are constructed of an array of filter tubes. The pump vault, which is suspended from the tank access opening, functions as a separate pumping compartment within the tank, equipped with its own filter.
2. The System shall be installed *in a second compartment septic tank* or the last tank in two tank series. When the system is installed in the two-compartment septic tank, the tank shall be constructed with flow-through posts in the baffle separating the two compartments, to maintain an equal liquid level throughout the tank. Any tank in which the System is installed shall be cast or manufactured with opening large enough to permit the installation of the System with out modifying the tank.
3. The septic tank, in which the System is to be installed, shall comply with retention time and any applicable requirements in 310 CMR 15.223; 15, 224; 15.225, and 15.227.
4. The septic tank, in which the System is to be installed, shall have a minimum one day of flow emergency storage, which can be assessed from the high-level alarm to inlet invert as required by 310 CMR 15.231(2).

III. General Conditions

1. The provisions of 310 CMR 15.000 are applicable to the use of the System, except those that specifically have been varied by the terms of this Certification.
2. The facility served by the System, and the System itself, shall be open to inspection and sampling (if any) by the Department and the local approving authority at all reasonable times.
3. In accordance with applicable law, the Department and the local approving authority may require the System owner to cease use of the System and/or to take

any other action as it deems necessary to protect public health, safety, welfare or the environment.

4. Design, installation and use of the System shall be in strict conformance with the Company's DEP approved plans and specifications and 310 CMR 15.000, subject to this Certification.

IV. Conditions Applicable to the System Owner

1. The System is approved for use in the treatment and disposal of sanitary sewage only. Any wastes that are non-sanitary sewage, generated or used at the facility served by the System, shall not be introduced into the on-site sewage disposal system and shall be lawfully disposed of.
2. Prior to installation the system in an existing septic system, the system owner shall obtain approval from the local approving authority for the proposed modification of the system. If the system is a failed, failing, or nonconforming system, the system shall be upgraded in accordance with 310 CMR 15.404.
3. The System owner shall at all times properly operate and maintain the System and the onsite sewage disposal system in which the System is installed.
4. The system owner shall have a septage hauler, licensed by the local board of health in accordance with G.L.c. 111 s. 31A and 310 CMR 15.502, service the filter regularly, at least once every year and inspect pumps, alarm and other equipment in accordance with 310 CMR 15.254(2). The system owner shall report in writing to the local Board of Health within 30 days of the date of servicing every time the pump is serviced.
5. The System owner shall furnish the Department any information that the Department requests regarding the operation and performance of the System, within 21 days of the date of receipt of that request.

V. Conditions Applicable to the Company

1. The Company shall notify the Department's Director of Wastewater Management Program at least 30 days in advance of any proposed transfer of ownership of the technology for which this Certification is issued. Said notification shall include the name and address of the proposed new owner and a written agreement between the existing and proposed new owner containing a specific date for transfer of ownership, responsibility, coverage and liability between them. All provisions of this Certification applicable to the Company shall be applicable to successors and assigns of the Company, unless the Department determines otherwise.
2. The Company shall furnish the Department any information that the Department requests regarding the System, within 21 days of the date of receipt of that request.

3. Prior to any sale of the System, the Company shall provide the purchaser with a copy of this Certification. In any contract for distribution or sale of the System, the Company shall require the distributor or seller to provide the purchaser of the System, prior to any sale of the System, with a copy of this Certification.
5. The Company shall prepare an installation, and operation and maintenance manual specifically detailing procedures for installation and operation of the System. The Company or its agent shall provide the purchaser a copy of this document.

VI. Reporting

1. All submittals of notices and documents to the Department required by this Certification shall be submitted to:

Director
Wastewater Management Program
Department of Environmental Protection
One Winter Street – 5th floor
Boston, Massachusetts 02108

VII. Rights of the Department

1. The Department may suspend, modify or revoke this Certification for cause, including, but not limited to, non-compliance with the terms of this Certification, non-payment of an annual compliance assurance fee, for obtaining the Certification by misrepresentation or failure to disclose fully all relevant facts or any change in or discovery of conditions that would constitute grounds for discontinuance of the Certification, or as necessary for the protection of public health, safety, welfare or the environment, and as authorized by applicable law. The Department reserves its rights to take any enforcement action authorized by law with respect to this Certification, the System, the owner, or operator of the System and the Company.