



Oregon

Theodore R. Kulongoski, Governor

Department of Environmental Quality

Western Region Eugene Office

165 East 7th Avenue, Suite 100

Eugene, OR 97401

(541) 686-7838

FAX (541) 686-7551

OTRS 1-800-735-2900

September 2, 2009

Jason Churchill
Orenco Systems Inc.
814 Airway Avenue
Sutherlin, OR 97479

RE: Advantex® Treatment System AXRT Series Treatment Standard 1 & 2

The Oregon Department of Environmental Quality (Department) has evaluated your Alternative Treatment Technology (ATT) applications and the plans, specifications and other required application exhibits. In the application, your company has certified that the ATT systems manufactured by your company will comply with all applicable Department rules and regulations. The Department has reviewed your application materials for compatibility with the standards and criteria found in Oregon Administrative Rule (OAR) 340-071-0345.

I am pleased to advise you that the following ATT systems have been found to meet the approval criteria for Treatment Standard 1 when used as part of an onsite wastewater treatment and dispersal system in Oregon:

➤ **Advantex® Treatment System Model: AX20RT in Mode 1 (500 gpd). Treatment Standard 1 with 2 configurations:**

1. 2-compartment FRP tank with internal pump vault.
2. 3-compartment FRP tank with internal pump vault.

The following ATT systems have been found to meet the approval criteria for Treatment Standard 2 when used as part of an onsite wastewater treatment and dispersal system in Oregon:

➤ **Advantex® Treatment System Model: AX20RT in Mode 3 w/ Salcor 3G UV Disinfection (500 gpd). Treatment Standard 2 unit with 2 configurations:**

1. 2-compartment fiber-reinforced plastic (FRP) tank with UV disinfection in an external pump vault with final discharge of effluent in the same pump vault.
2. 3-compartment FRP tank with UV disinfection in the 3rd compartment with final discharge to a pump vault.

You are authorized to manufacture, market, and distribute these ATTs for use in Oregon, providing the following conditions are met:

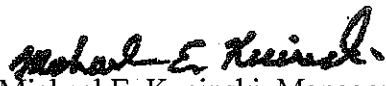
1. The ATT must be manufactured in compliance with the Department's rules and the plans and design specifications provided. Any deviation from the plans and specifications shall not be permitted unless authorized by NSF and in writing by the Department.

The approved plans are labeled AdvanTex® - AXRT Discharge Options and dated September 2, 2009 (attached).

2. The manufacturer must provide training for, and maintain a list of, certified installers and maintenance providers authorized to work on these ATTs, and provide certificates to those individuals.
3. Systems less than 10 years old may not exceed a failure rate of 10 percent.
4. Each ATT must maintain NSF Standard 40 certification.
5. As the manufacturer of these products, it is your responsibility to assure that each assembled ATT delivered to the construction site is watertight. Assurance must be achieved by periodic testing of the ATT products for water-tightness at the manufacturing facility.
6. A minimum two-year service contract, including a minimum of four service visits (scheduled every six months) must be included in the purchase price of the ATT. A system owner must comply with OAR 340-071-0345(14) regarding subsequent service contracts.
7. Each ATT shall be delivered with an installation guide and owner's manual.
8. Each ATT must be installed in accordance with the manufacturer's installation manual.
9. Each ATT is only acceptable for use at locations where the top loading will not exceed the engineering design parameters. ATTs proposed for use at other locations must have an engineering analysis of the potential top loading, and may require the preparation of site-specific plans and specifications.
10. All other applicable rules and requirements within OAR 340-071 and 073 must be followed.

Please feel free to contact Randy Trox at (541) 687-7338 if you have any questions about this letter.

Sincerely,


Michael E. Kucinski, Manager
Water Quality/Onsite

cc: All Contract County Offices
All DEQ Direct Service Offices
Randy Trox, DEQ Eugene



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OTRS 1-800-735-2900

August 2, 2010

Sam Carter
Government Relations Manager
Orenco Systems Inc.
814 Airway Avenue
Sutherlin, OR 97479

RE: AX20RT Supplemental Plan Approval

Dear Mr. Carter:

On September 9, 2009 the Oregon Department of Environmental Quality (Department) approved the AX20RT (500 gpd) Alternative Treatment Technology (ATT) onsite wastewater treatment system for use in Oregon. The approval letter requires Orenco Systems Inc. to manufacture the AX20RT ATT in compliance with the Department's rules, regulations and the approved plans and specifications. Any deviations from the approved plans and specifications shall not be permitted unless authorized by NSF International (NSF) and the Department.

The Department has reviewed supplemental plans, approved via letter dated April 26, 2010 by NSF, incorporating the following design changes for the AX20RT ATT onsite wastewater treatment system:

- EasyPak Pump System to Biotube Pump Vault System
- Baffle wall modification
- Liquid level adjustments

I am pleased to advise you the Department has approved the supplemental plans labeled AdvanTex®-AXRT Discharge Options, dated July 30, 2010 (attached):

➤ **Advantex® Treatment System Model: AX20RT in Mode 1 (500 gpd).
Treatment Standard 1 with 3 configurations:**

1. 2-compartment fiber reinforced plastic (FRP) tank with internal pump vault.
2. 2-compartment FRP tank with internal pump vault and proceeded by a dosing septic tank.
3. 3-compartment FRP tank with internal pump vault.

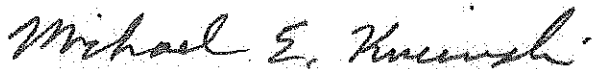
➤ **Advantex® Treatment System Model: AX20RT in Mode 3 w/ Salcor 3G UV Disinfection (500 gpd). Treatment Standard 2 with 2 configurations:**

1. 2-compartment FRP tank with UV disinfection in an external pump vault with final discharge of effluent in the same pump vault.
2. 3-compartment FRP tank with UV disinfection in the 3rd compartment with final discharge to a pump vault.

A copy of this letter and the supplemental drawings will be posted on the Department's website.

Please feel free to contact Dan Wiltse at (541) 687-7436 if you have any questions about this letter.

Sincerely



Michael E. Kucinski, Manager
Water Quality/Onsite

ec: All County Contract Offices
All Direct Service Offices
Dan Wiltse, DEQ Eugene



Oregon

John A. Kitzhaber, MD, Governor

Department of Environmental Quality

Western Region Eugene Office

165 East 7th Avenue, Suite 100

Eugene, OR 97401

(541) 686-7838

FAX (541) 686-7551

TTY 711

August 17, 2011

Sam Carter
Government Relations Manager
Oreco Systems Inc.
814 Airway Avenue
Sutherlin, OR97479

RE: AX20RTN Supplemental Plan Approval

On September 9, 2009, the Oregon Department of Environmental Quality (Department) approved the AX20RTN (500 gpd) Alternative Treatment Technology (ATT) system for use in Oregon. The approval is contingent upon Oreco Systems Inc. manufacturing the AX20RTN ATT in compliance with the Department's rules, regulations and the approved plans and specifications.

The Department has reviewed supplemental plans and NSF letter of approval dated July 20, 2011, which incorporates the following design changes for the AX 20RTN:

- Alternate baffle wall configuration
- Pressure manifold laterals with orifice shields to spin nozzles

I am please to advise you the Department has approved the following supplement plans dated August 17, 2011:

- Advantex® Treatment System Model: AX20RTN Pump Discharge in **Treatment Standard 1**(500gpd) Treatment Standard 1, titled NDW-ATX-RT-OR-01.
- Advantex® Treatment System Model: AX20RTN Pump Discharge with Septic/Dosing Pump **Treatment Standard 1** (500gpd) Treatment Standard 1-Pump Discharge, 2-Comp. Recirculating Tank, titled NDW-ATX-RT-OR-01.
- Advantex® AX20RTN Pump Discharge with UV Unit-**Treatment Standard 2**, titled NDW-ATX-RT-OR-3

Please feel free to contact Dan Wiltse at (541) 687-7436 if you have any questions about this letter.

Sincerely,

For
Michael E. Kucinski, Manager
Water Quality/ Onsite

Enclosure: Approved Plans

cc: County & DEQ Onsite Program Staff (W/ enclosure)



Oregon

John A. Kitzhaber, MD, Governor

Department of Environmental Quality

Western Region Eugene Office

165 East 7th Avenue, Suite 100

Eugene, OR 97401

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FAX (541) 686-7551

TTY 711

January 20, 2012

Nicholas Noble
Orenco Systems Inc.
814 Airway Avenue
Sutherlin, OR 97479

RE: Advantex Treatment System, AX25RTN Treatment Standard 1 & 2.

The Oregon Department of Environmental Quality (Department) has evaluated your Alternative Treatment Technology (ATT) application and the plans, specifications and other required application exhibits. In the application, Orenco Systems Inc. (Orenco) has certified that the ATT systems listed above, comply with all applicable Department rules and regulations. The Department has reviewed your application materials for compatibility with the standards and criteria found in Oregon Administrative Rule (OAR) 340-071-0345.

The following ATT system has been found to meet the approval criteria for Treatment Standard 1 when used as part of an onsite wastewater treatment and dispersal system in Oregon:

- Advantex® Treatment System Model: AX25RTN in Mode 1 (625gpd).

The following ATT system has been found to meet the approval criteria for Treatment Standard 2 when used as part of an onsite wastewater treatment and dispersal system in Oregon.

- Advantex® Treatment System Model: AX25RTN in mode 3 (625gpd) w/ Orenco UV Disinfection.

Orenco Systems Inc. is authorized to manufacture, market, and distribute these ATT's for use in Oregon, providing the following conditions are met:

1. The ATT must be manufactured in compliance with the Department's rules and the plans and specifications provided. Any deviation from the plans and specifications shall not be permitted unless authorized by NSF International and the Department.
2. The approved plans are labeled AX25RTN Treatment Standard 1 and AX25RTN-UV Treatment Standard 2. Both drawings are dated January 20, 2012.
3. The ATT must be preceded by a DEQ approved septic tank. A minimum 1,000 gallon septic tank is required for a home with four (4) bedrooms or less. A minimum 1,500 gallon septic tank is required for homes with either five (5) or six (6) bedrooms.

4. As the manufacturer, Orenco Systems Inc. is required to provide training for, and maintain a list of, certified installers and maintenance providers authorized to work on these ATT's and to provide certificates to those individuals.
5. Systems less than 10 (ten) years old may not exceed a failure rate of 10 (ten) percent.
6. The AXRT25 ATT system must maintain NSF Standard 40 certification.
7. As the manufacturer of these products, it is your responsibility to assure that each assembled ATT delivered to the construction site is watertight. Assurance must be achieved by periodic testing of the ATT products for water-tightness at the manufacturing facility.
8. A minimum two-year service contract, including a minimum of four service visits (scheduled every six months) must be included in the purchase price of the ATT. A system owner must comply with OAR 340-071-0345(14) regarding subsequent service contracts.
9. Each ATT shall be delivered with an installation guide and owner's manual.
10. Each ATT must be installed in accordance with the manufacturer's installation manual.
11. Each ATT is only acceptable for use at locations where the top loading will not exceed the engineering design parameters. ATT's proposed for use at other locations must have an engineering analysis of the potential top loading, and may require the preparation of site-specific plans and specifications.
12. All other applicable rules and requirements within OAR 340-071 and 073 must be followed.

This determination should not be construed as the Department's endorsement of this product or advertising. Moreover, the Department is not responsible for any situation from use or mis-application of your product.

Please contact Dan Wiltse at (541) 687-7436 if you have any questions regarding this letter.

Sincerely,



Michael E. Kucinski, Manager
Water Quality/Onsite

Encl: Approved Plans

Ec: All Contract County Offices (w/Encl.)
All DEQ Direct Service Offices (w/Encl.)