



# Oregon

Theodore Kulongoski, Governor

Department of Environmental Quality

Western Region Roseburg Office

725 SE Main

Roseburg, OR 97470

(541) 440-3338

FAX (541) 440-3396

September 6, 2007

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

**RE: AdvanTex® Treatment System AXN Series w/ UV Disinfection**

Dear Mr. Carter:

Your applications for Oregon Alternative Treatment Technology (ATT) approval of the AdvanTex® Treatment System AXN Series with UV Disinfection have been evaluated by the Oregon Department of Environmental Quality (Department). In your applications, your company has certified that the ATT systems manufactured by Orenco Systems Inc. will comply with all applicable Department rules and regulations. The Department has also reviewed the materials submitted with your applications 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, when used in Mode 3, have been found to meet the approval criteria for Treatment Standard 2 when used as part of an onsite wastewater treatment system in Oregon (Mode 3 is an ATT configuration previously approved by the Department on April 7, 2005):

- **AdvanTex® Treatment System Model: AX20-N in Mode 3 w/ Salcor 3G UV Disinfection (500 gpd)**
- **AdvanTex® Treatment System Model: AX20-2N in Mode 3 w/ Salcor 3G UV Disinfection (1000 gpd)**
- **AdvanTex® Treatment System Model: AX20-3N in Mode 3 w/ Salcor 3G UV Disinfection (1500 gpd)**

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

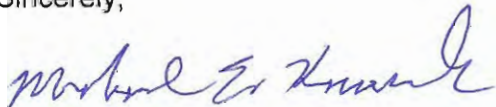
1. The ATT must be manufactured in compliance with the Department's rules and the plans and design specifications provided. Any deviation from the plans and specifications shall not be permitted unless authorized by NSF and in writing by the Department.

The approved plans are labeled AdvanTex® - AXN UV Discharge Options and dated 8/29/07 (attached).

2. You must provide training for, and maintain a list of, certified installers and maintenance providers authorized to work on these ATT systems, and provide certificates to those individuals.
3. ATT 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.
7. Each ATT shall be delivered with an installation manual 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. ATT systems 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 Chapter 340, Divisions 071 and 073 must be followed.

Please feel free to contact Zach Loboy at (541) 687-7425 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  
Zach Loboy, 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  
Orengo Systems Inc.  
814 Airway Avenue  
Sutherlin, OR 97479

RE: Orengo Model UV-125/31-P disinfection unit.

On September 6, 2007, the Oregon Department of Environmental Quality (Department) approved the AX20-N Mode 3 Alternative Treatment Technology (ATT) system for Treatment Standard 2. That approval is contingent upon Orengo Systems Inc. manufacturing the systems in compliance with the department's rules, regulations and the approved plans and specifications.

NSF International (NSF) recently completed evaluating and testing design modifications to the AdvanTex® AX20N with the Model UV-125/31-P disinfection system. The AdvanTex® system was originally tested in 2006 by NSF with the Salcor Model 3G UV disinfection unit.

NSF's findings, provided in a letter dated July 13, 2011, demonstrated no significant difference in performance between the Salcor Model 3G UV disinfection unit and the Orengo Model UV-125/31-P disinfection unit. NSF's evaluation concluded that the Orengo UV-125/31-P disinfection system will meet or exceed the performance of the originally tested UV system.

Orengo Systems, Inc and NSF have certified that the use of the Orengo UV-125/31-P disinfection system complies with all applicable rules and regulations. I am pleased to advise you that the Orengo AdvanTex® Systems (in Mode 3 configuration) with the UV-125/31-P disinfection system has been found to meet **Treatment Standard 2** approval criteria for use.

This determination should not be construed in any way as our endorsement of the product or any advertising. Moreover, the department is not responsible for any situation which may result from use or mis-application of your product.

If you have any questions regarding this letter, please contact Dan Wiltse at (541) 687-7436 or by email at [wiltse.daniel@deq.state.or.us](mailto:wiltse.daniel@deq.state.or.us)

Sincerely,

For Mike Kucinski, Manager  
Water Quality/Onsite

Enclosure

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



# Oregon

Kate Brown, 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

June 17, 2016

Joe Soulia  
Orenco Systems, Inc.  
814 Airway Avenue  
Sutherlin, OR 97479

RE: AdvanTex<sup>®</sup> AX-20 Three Pod Mode 3 with UV

Dear Joe,

DEQ staff issued an approval letter for the AdvanTex<sup>®</sup> AX-20 three-pod Mode 3 with UV disinfection on September 6, 2007. You recently submitted a 'material plan review' application to update the design, specifically to remove the distributing valve, pump vault, and the shared liquid level line and reposition the RSV splitter to the recirculation tank; instead use a larger pump to dose all beds at once and effluent from two pods drain to recirculation tank and one drains to inlet side of the septic tank. This letter amends the approval letter listed above with the following change: condition 1 in the letter has plan approval dated September 29, 2007 will also include plan approval dated June 17, 2016 and is included with this letter.

I understand the prior configuration won't be used and therefore that design will be removed from the products website to minimize clutter and make it easier to find current designs.

Questions? Please contact Randy Trox, [trox.randall@deq.state.or.us](mailto:trox.randall@deq.state.or.us), or by phone, 541-687-7338.

Sincerely,

David Belyea, Manager  
Regional Environmental Solutions