



January 20, 2011

ORENCO SYSTEMS INC  
GOVERNMENT RELATIONS  
ANGELA BOUNDS  
814 AIRWAY AVE  
SUTHERLIN OR 97479

Re: Description: SEWAGE TANK EFFLUENT PUMP SYSTEM (STEP)  
Manufacturer: ORENCO SYSTEMS INC  
Product Name: BIOTUBE PUMP VAULT  
Model Number(s): PVU\*\*-++", X#S^^-++", AND X#D^^-++"  
[WHERE \*\* IS THE VAULT HEIGHT IN INCHES; ++ IS THE CARTRIDGE HEIGHT IN INCHES; " IS THE INLET HOLE HEIGHT IN INCHES; # IS THE FLOW INDUCER DIAMETER IN INCHES; AND ^^ IS THE VAULT HEIGHT IN INCHES]  
Product File No: 20110030

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of MAY 2016.**

This approval is contingent upon compliance with the following stipulation(s):

- Installation and servicing of this product must be in accordance with the manufacturer's instructions. A copy of the manufacturer's installation and servicing instructions must be given to the owner of the system.
- This product must be installed in sewage treatment tanks approved by the Department of Commerce, Division of Safety and Buildings for use with this product.
- When this product is used in conjunction with a simplex pump in the pump compartment of a septic/pump tank:
  1. The pump compartment must be sufficient to accommodate a one-day reserve zone above the high water alarm level; or
  2. The septic/pump tank must be sufficient to accommodate a:
    - a. Treatment zone equal to 2.088 times the design wastewater flow entering the tank,
    - b. Drawdown zone, and
    - c. One-day reserve zone above the high water alarm level.
- When this product is used to pump from a single compartment septic/pump tank, the discharge rate of the pump must not exceed 40 gallons per minute.
- **A pump rated for effluent use must be used.**
- **Additional information is included as attachment(s) to this letter; see attachment A.**

This approval supersedes the approval issued on 5/19/2006 & 6/8/2009 under product file number 20060202.

This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file number 20060202.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Jean M. MacCubbin, CST; Engineering Consultant--Plumbing Products Review  
Commerce; Safety & Buildings Div.; PO Box 2658; 201 W Washington Ave.; Madison WI 53703-2658  
Phone: 608-266-0955; Fax: 608-283-7456; E-mail: Jean.MacCubbin@WI.GOV