



Scott Walker, Governor
Dave Ross, Secretary

June 19, 2015

CUST ID No. 1316296

MARK C NOGA
KNIGHT TREATMENT SYSTEMS INC
281 COUNTY ROUTE 51A
OSWEGO NY 13126

Identification Numbers
Transaction ID No. 2532207
Site ID No.
Please refer to both identification numbers, above, in all correspondence with the agency.

Re: Description: SEWAGE TREATMENT APPARATUS (Tier 3- downsizing & vertical separation credit)

Manufacturer: KNIGHT TREATMENT SYSTEMS INC

Product Name: WHITE KNIGHT MICROBIAL INOCULATOR/GENERATOR (trans. ID 2532207)

Model Number(s): WK-40 AND WK-78

THIS APPROVAL AND ITS CONDITIONS ARE LIMITED TO USE & INSTALLATION IN NEW POWTS SYSTEM DESIGNS

[WK-40: MAX. DWF 750 GALS./DAY; MIN. TANK CAPACITY = 1000 GAL. or 1.5-DAY RESIDENCE TIME WITH 2-DAY RESIDENCE TIME PREFERRED]

[WK-78: MAX. DWF 1200 GALS./DAY; MIN. TANK CAPACITY = 2000 GAL. or 1.5-DAY RESIDENCE TIME WITH 2-DAY RESIDENCE TIME PREFERRED; FOR MAX. AVG. F.O.G. SEE STIPULATIONS REGARDING TREATMENT TRAIN]

Product File No: 20150107

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, 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 June 2020.**

This approval supersedes the approval issued on 7/6/2010 under product file number 20100070.

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

- This product must be utilized in accordance with the manufacturer's printed installation instructions and this product approval. If there is a conflict between the manufacturer's installation instructions and the product approval, the product approval requirements will take precedence.
- A copy of this approval letter and the manufacturer's printed installation instructions must be supplied to the buyer of this product.
- This product must be installed by a properly licensed plumber.
- A state Sanitary Permit must be obtained when this product is installed.

- The minimum depth of unsaturated soil for treatment purposes of the treatment/dispersal cell that receives wastewater from this product must comply with the vertical distance listed in Table 383.44-3 under Fecal Coliform equal to or less than 10,000 cfu/100ml column heading.
- The outlet baffle of the septic tank, which has this product installed, must have installed an effluent filter capable of filtering particles of 1/8 inch in size or larger.
- The IOS-500 inoculant must be exchanged at least on an annual basis.
- Prior to installation of this product, plans and specifications must be submitted to the department or to an approved agent municipality for review and approval in accordance with s. SPS 382.20 (1) of the Wis. Admin. Code. Written approval for the plans and specifications shall be obtained prior to installation of the product.
- AS OF MARCH 1, 2009 ALL ELECTRICAL CONNECTIONS FOR PRIVATE SEWAGE SYSTEMS MUST COMPLY WITH S. SPS 316.300 (formerly S. COMM 16.300), WIRING METHODS.
- An access opening of sufficient size to allow installation, inspection maintenance and servicing of this device/product must be provided. This access opening must terminate at or above grade.
- When this product receives wastewater from dwellings and is granted downsizing and vertical separation credits as allowed in Tables 383.44-2 and 383.44-3, it shall produce an effluent quality with a maximum monthly average value of BOD5, TSS and F.O.G. of less than or equal to 30mg/L and fecal coliform of less than or equal to 10,000 cfu/100ml to stay compliant with SPS 383.44 effluent quality parameters.
- The department may require metering or monitoring of the effluent from this product to evaluate the operation and compliance to SPS 383.44 effluent quality parameters.
- The owner is responsible for maintaining and testing this POWTS product verifying it complies with code effluent quality parameters.
- This approval for the above-referenced PRODUCT FILE No. does not provide for the inclusion of this product in an existing failing POWTS; products to rejuvenate failing POWTS must have separate approval by DSPS for chemical or physical restoration (CPR). [s. SPS 383.53].
- For commercial use in establishments with food service, full service restaurants, and similar facilities, state-approved upstream grease interceptor of an acceptable size and treatment performance must be installed to bring wastewater parameters to acceptable levels: FOG – 200 mg/L. Tank must allow for min. of 2-day residency time of average DWF with a suggested min. capacity of 1500 gallons.

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| Table 1 Maintenance, Inspection, Pumping Requirements | |
| WHITE KNIGHT MICROBIAL INOCULATOR/GENERATOR™ | |
| PRODUCT/ (Models) | WK 40, WK 78..... |
| Initial/Startup Inspection/ Maintenance-- | service agreement may be required by manufacturer; replace IOS-500 inoculant annually |
| Ongoing Pumping Cycle And/Or Requirements | N/A |
| Back-Wash Cycle | N/A |
| Effluent Performance Levels | NO (NSF Class I) |
| BOD5 Credit For Downsizing Distribution Area | YES |
| Fecal Credit For Reduction Of Vertical Separation | YES |

- The Division of Industry Services reserves the right to amend/revise this document as conditions arise for code compliance and/or to protect public health and waters of the state.

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,

Glen Jones, M.S.
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