



DIVISION OF INDUSTRY SERVICES
 PO BOX 7162
 MADISON WI 53707-7162
 Contact Through Relay
 www.dsps.wi.gov/sb/
 www.wisconsin.gov

Scott Walker, Governor
 Dave Ross, Secretary

October 21, 2013

CUST ID No. 120149

ATTN: Plumbing Inspector

DOUGLAS MIKELSON
 TOTAL WATER TREATMENT SYSTEMS INC
 5002 WORLD DAIRY DRIVE
 MADISON WI 53718

MUNICIPAL CLERK
 TOWN OF BELOIT
 2871 S AFTON RD
 BELOIT WI 53511-8666

CONDITIONAL APPROVAL
PLAN APPROVAL EXPIRES: 10/21/2015

Identification Numbers
Transaction ID No. 2326438
Site ID No. 646687
Please refer to both identification numbers, above, in all correspondence with the agency.

SITE:

Riverside Energy Center
 1401 W Townline Rd
 Town of Beloit, 53511-9002
 Rock County; Fire Dept ID: 5301

FOR:

Facility: 640837 RIVERSIDE ENERGY CENTER
 1401 W TOWNLINE RD
 BELOIT 53511

1 Interior Fixture(s)

Object Type: Commercial Water Treatment Device Regulated Object ID No.: 1455855

The submittal described above has been reviewed for conformance with applicable Wisconsin Administrative Codes and Wisconsin Statutes. The submittal has been **CONDITIONALLY APPROVED**. The owner, as defined in chapter 101.01(10), Wisconsin Statutes, is responsible for compliance with all code requirements.

No person may engage in or work at plumbing in the state unless licensed to do so by the Department per s.145.06, stats.

The following conditions shall be met during construction or installation and prior to occupancy or use:

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of October 2017.

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

- This reverse osmosis system has undergone sufficient testing to document the device's ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturer's published instructions.
- Where the Department of Natural Resources (DNR) has jurisdiction, a written approval may be required prior to installation of this product in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 267-9787.

- The finished installation must undergo a final inspection prior to the treated water being used for consumptive purposes. The Plumbing Consultant having jurisdiction in this area is Ryan Boebel. Mr. Boebel can be reached via the following:

Phone: 608-412-3998

E-mail: ryan.boebel@wi.gov

If the treated water is used for consumptive purposes prior to passing the final inspection, then this approval may be rendered null and void and the device ordered removed. The Plumbing Consultant shall provide a written indication of the results of the final inspection to the system owner. When the final inspection has been passed, the Plumbing Consultant will notify the Wisconsin Department of Natural Resources (WDNR) Field Staff having authority over the well. The WDNR will then monitor the quality of the treated water to its satisfaction. Monitoring advice, which the WDNR is free to accept or reject, is provided elsewhere in this letter. The WDNR Field Staff having authority over this well is James Kralick. Mr. Kralick can be contacted via the following:

Phone: 608-275-3202

E-mail: james.kralick@wisconsin.gov

- The suggested monitoring interval for this installation is quarterly. As a minimum, the following tests should be performed:

1. nitrate

The samples collected at should be taken from the dedicated faucet after the storage tank has been emptied. This means the treated water collected for analysis will be direct flux from the membrane, not water from the dedicated storage tank. If a raw, untreated water sample is required, then it should be collected at the same time as the treated water sample.

- The reverse osmosis (RO) system being installed is approved under DSPS product file number 20090130. The approval letter can be viewed at: <http://dps.wi.gov/sb/docs/sb-ppalopp/wtd/20090130.pdf>. All stipulations displayed in the approval letter for product file number 20090130 must be adhered to. If this approved RO system is modified, or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed. This RO system was tested under controlled laboratory conditions. The actual performance of this RO system for a specific end use installation will vary from the tested conditions based on local factors such as water pressure, water temperature and water chemistry.

In addition, please note the following that must be provided to the RO system owner:

- a. the influent feed water pressure to this device must be ≥ 30 psig;
 - b. a product water quality monitor must be installed;
 - c. nitrate test strips must be provided to the business owner;
 - d. the influent water to the RO system must conform to the minimum requirements specified in the pertinent Culligan Owner's manual;
 - e. the RO system must be installed and maintained in strict accordance with the manufacturer's published instructions; and
 - f. a complete copy of the owner's manual, installation and operating instructions.
- Any wall hydrant that is not served by the nitrate treatment device must have one, or more, of the following:
 1. The handles of the hydrant shall be removed;
 2. The hydrant shall be capped and sealed using solder; or
 3. Signage shall be posted immediately above the hydrant indicating the water is unfit for human consumption.

- All water distribution piping, potable and non-potable, shall be marked as required by Table 382.40-1a. Note, this is in addition to any public notification that may be required by the WDNR under a nitrate variance/waiver.

A copy of the approved plans, specifications and this letter shall be on-site during construction and open to inspection by authorized representatives of the Department, which may include local inspectors. All permits required by the state or the local municipality shall be obtained prior to commencement of construction/installation/operation. In granting this approval the Division of Safety & Buildings reserves the right to require changes or additions should conditions arise making them necessary for code compliance. As per state stats 101.12(2), nothing in this review shall relieve the designer of the responsibility for designing a safe building, structure, or component.

Inquiries concerning this correspondence may be made to me at the telephone number listed below, or at the address on this letterhead.

Sincerely,



Glen W. Schlueter
 Environmental Engineer
 Bureau of Technical Services
 Division of Industry Services
 Department of Safety and Professional Services
 (608) 267-1401 **Phone**
 (608) 267-9566 **Fax**
 glen.schlueter@wi.gov **Email**
 7:30AM – 4:30PM CT **Work Hours**
 GWS:gws

Fee Required \$	160.00
Fee Received \$	160.00
Balance Due \$	0.00

WiSMART code: 7657

cc: Ryan M Boebel, Plumbing Consultant, (608) 412-3998 , 8:00 am - 4:00 pm
 Total Water Treatment Systems Inc
 Colin Beveridge, Alliant Energy

Note: Effective January 1, 2012, all codes under the jurisdiction of the Division of Safety & Buildings will be modified. Code references with prefixes starting with "Comm" will be replaced with "SPS" to recognize the relocation of the Division of Safety & Buildings from the former Dept. of Commerce to the Dept. of Safety & Professional Services. Additionally, all S&B codes will be renumbered and addressed in a "300" series. For future reference, the Wisconsin Commercial Building Code will be addressed by SPS Chapters 360-366.