

STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES

PUBLIC NOTICE OF INTENT TO REISSUE A WISCONSIN POLLUTANT DISCHARGE ELIMINATION SYSTEM (WPDES) PERMIT No.WI-0061921-04-0

Permittee: Wisconsin Power and Light Company, 1401 West B-R Townline Road, Beloit, WI, 53511

Facility Where Discharge Occurs: WPL - Riverside Energy Center, 1401 W B-R Townline Rd, Beloit, WI 53511

Receiving Water And Location: Rock River at 42.5766 N 89.0357 W

Brief Facility Description and Summary of Proposed Changes: Wisconsin Power and Light (WPL) – Riverside Energy Center (an Alliant Company) is a campus containing two natural gas-fired combined-cycle electric power generation facilities. The original Riverside Energy Center facility has approximately 460 MW under standard conditions and approximately 140-MW of additional peaking capacity using steam augmentation and duct firing for a total generation capacity of 674.9 MW. Heat recovery from the exhaust of the combustion turbines is used to create the steam to generate electricity for steam turbines. A wet recirculating cooling tower is used to cool steam from the steam cycle. The Riverside facility has a discharge of combined cooling tower blowdown and non-cooling tower blowdown low volume wastewater streams.

The West-Riverside Energy Center (WREC) facility was constructed in 2020 and is a natural gas combined cycle (NGCC) project next to the existing Riverside facility. The WREC facility is a nominal 700 MW NGCC electrical generating facility consisting of two natural gas-fired combustion turbines and a heat recovery steam generator. The effluent discharge from WREC combines with Riverside's effluent discharge under Outfall 001 to discharge to the Rock River.

At Riverside, wastewater from equipment and wash-down areas is treated in an oil water separator (OWS). Dechlorination of cooling tower blowdown is done using sodium bisulfite before mixing with West Riverside effluent. At West Riverside, wastewater from equipment and washdown areas is routed to a wastewater treatment system that consists of an inclined plate clarifier followed by three sand filters in series. Dechlorination of treated wastewater is done using sodium bisulfite before mixing with Riverside effluent. West Riverside has a sludge handling process consisting of a sludge thickening tank and plate and frame filter press. Cake sludge is disposed in offsite landfill.

Changes Include:

- Daily max and monthly average limits changed for zinc and chromium at sample point 003
- Monthly average limit for TSS added at outfall 001
- Quarterly monitoring for nitrogen added at outfall 001
- Monitoring for chloride added at outfall 001

Permit Drafter's Name, Address, Phone and Email: Sawyer Hanson, DNR, 101 S. Webster St. PO Box 7921, Madison, WI, 53707, (608) 669-4310, Sawyer.Hanson@wisconsin.gov

Basin Engineer's Name, Address, Phone and Email: Ashley Brechlin, 3911 Fish Hatchery Road, Fitchburg, WI 53711, (608) 438-9930, ashley.brechlin@wisconsin.gov

The Department has tentatively decided that the above-specified WPDES permit should be reissued.

Persons wishing to comment on or object to the proposed permit action, or to request a public hearing, may write to the Department of Natural Resources at the above-named permit drafter's address. All comments or suggestions received no later than 30 days after the publication date of this public notice will be considered along with other information on file in making a final decision regarding the permit. Anyone providing comments in response to this public notice will receive a notification of the Department's final decision when the permit is issued. Where designated as a reviewable surface water discharge permit, the U.S. Environmental Protection Agency is allowed up to 90 days to submit comments or objections regarding this permit determination. If no comments are received on the proposed permit from anyone, including U.S. EPA, the permit will be issued as proposed.

The Department may schedule a public informational hearing if requested by any person and shall schedule a public informational hearing if a petition requesting a hearing is received from 5 or more persons or if response to this notice indicates significant public interest pursuant to s. 283.49, Wis. Stats. Requests for a public informational

hearing shall state the following: the name and address of the person(s) requesting the hearing; the interest in the proposed permit of the person(s) requesting the hearing; the reasons for the request; and the issues proposed to be considered at the hearing.

Information on file for this permit action, including the draft permit, fact sheet and permit application, may be inspected and copied at either the above-named permit drafter's office or the above named basin engineer's office, Monday through Friday (except holidays), between 9:00 a.m. and 3:30 p.m. Please call the permit drafter or basin engineer for directions to their office location, if necessary. Information on this permit action may also be obtained by calling the permit drafter at (608) 669-4310 or by writing to the Department. Reasonable costs (15 cents per page for copies and 7 cents per page for scanning) will be charged for information in the file other than the public notice, permit and fact sheet. Permit information is also available on the internet at: <http://dnr.wi.gov/topic/wastewater/PublicNotices.html>. Pursuant to the Americans with Disabilities Act, reasonable accommodation, including the provision of informational material in an alternative format, will be made to qualified individuals upon request.

NAME OF PUBLISHING NEWSPAPER: Beloit Daily News

ADDRESS OF PUBLISHING NEWSPAPER: 149 State Street, Beloit, WI 53511

Date Notice Issued: Monday, August 26, 2024