



Public Service Commission of Wisconsin

Summer Strand, Chairperson
 Kristy Nieto, Commissioner
 Marcus Hawkins, Commissioner

4822 Madison Yards Way
 P.O. Box 7854
 Madison, WI 53707-7854

May 3, 2024

Mr. Rich Stasik, Director–State Regulatory Affairs
 Wisconsin Electric Power Company
 231 West Michigan Street
 Milwaukee, WI 53203

Re: Application of Wisconsin Electric Power Company for a
 Certificate of Public Convenience and Necessity to
 Construct and Operate the South Oak Creek CT Project,
 Consisting of Five Natural Gas-Fired Single-Cycle
 Combustion Turbines Generating up to 1100 MW Total at
 the South Oak Creek Facility in the City of Oak Creek,
 Milwaukee County, Wisconsin

6630-CE-317

Dear Mr. Stasik:

On April 5, 2024, Wisconsin Electric Power Company (applicant) filed an application with the Public Service Commission of Wisconsin (Commission) for authority to construct and place into operation five new natural gas-fired single-cycle combustion turbine generators to be located at the existing Oak Creek Generating Site in the City of Oak Creek, Milwaukee County, Wisconsin. The applicant's application was filed pursuant to Wis. Stat. §§ 196.025 and 196.491, and Wis. Admin. Code chs. PSC 4 and 111, which require the Commission to determine whether a Certificate of Public Convenience and Necessity (CPCN) should be granted.

The Commission and the Wisconsin Department of Natural Resources (DNR) reviewed the application to construct the facilities described above. The Commission, under Wis. Stat. § 196.491(3)(a)2. and Wis. Admin. Code § PSC 111.51, finds the CPCN application to be incomplete because certain items, identified in the attached list, were identified as missing, incomplete, or requiring clarification.

The information in the attached list is required to complete the application. Additional information may also be identified in the future and require further updates.

Wisconsin Stat. § 196.491(3)(a)2. provides that an applicant may supplement and re-file an application that the Commission deems incomplete. The Commission, however, will not consider the application complete until the applicant has met all of the CPCN application requirements to the satisfaction of the Commission and DNR. Commission and DNR staff are available to meet with the applicant to clarify and discuss any of the completeness items prior to a new filing.

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Thank you for your review of the items identified in the attached list. If you have any questions regarding this letter, please contact the Commission's docket coordinator, Colton Bushey, at (608) 267-0511 or Colton.Bushey@wisconsin.gov.

Sincerely,

A handwritten signature in black ink that reads "Kate Christensen". The signature is written in a cursive, slightly slanted style.

Kate Christensen
Administrator
Division of Energy Regulation and Analysis

KC:CGB;jlt:DL:02007933

Attachment

Items Identified as Missing, Incomplete, or Requiring Clarification

Please post your responses to these items to the Commission’s Electronic Records Filing (ERF) system. When uploading the document, the ERF description must be “Response-Data Request-PSC-Bushey-1”. Commission staff will continue review of the application once responses are received. If you have any questions regarding this request, please contact Colton Bushey at (608) 267-0511 or Colton.Bushey@wisconsin.gov.

- PSCW-DG-1.1:** (Application page 51/164, Section 2.1.2., AFR Section 2.1.2.) Provide all model input assumptions and outputs for all PLEXOS model runs performed in support of the application. These items were not provided with the initial application.

- PSCW-DG-1.2:** (Application page 139/164, Section 6.12.1., AFR Section 6.12.1.) An incomplete noise study was provided with the application. Perform a pre-construction noise study as outlined in the Commission’s “Measurement Protocol for Sound And Vibration Assessment of Proposed and Existing Electric Power Plants” document where Commission staff are consulted prior to conducting any sound and vibration measurements.

- PSCW-DG-1.3:** (Application page 20/164, Section 1.1.6., AFR Section 1.1.6.) Discuss how hydrogen may be used for any potential future fueling of the proposed combustion turbines (CT), including any steps the applicant would need to perform to transition the proposed CTs to hydrogen firing.

- PSCW-DG-1.4:** (Application page 21/164, Section 1.1.8.1., AFR Section 1.1.8.1.) Discuss impacts to the proposed project if the Rochester Lateral project is not approved.

- PSCW-DG-1.5:** (Application page 21/164, Section 1.1.8.1., AFR Section 1.1.8.1.) Provide the capacity of the proposed liquified natural gas (LNG) storage tank and how long the storage tank could support operation of the proposed CTs running at maximum output.

- PSCW-DG-1.6:** (Application page 22/164, Section 1.1.9., AFR Section 1.1.9.) Discuss if any costs to upgrade the Oak Creek (OC) substation to 230 kilovolts (kV) to interconnect the proposed project could be incurred by the applicant and how those costs have been incorporated into the project cost estimate.

- PSCW-DG-1.7:** (Application page 22/164, Section 1.1.9., AFR Section 1.1.9.) Discuss if any Attachment Y or Y-2 studies have been performed regarding the retirement of Oak Creek Units 5-8 (OC 5-8) and the transition to 230 kV service in lieu of the original connection voltages. If so, provide those updated studies and supporting documentation, including if the retirements of OC 5-8 can proceed as planned without reliability concerns.

- PSCW-DG-1.8:** (Application page 22/164, Section 1.1.9.1., AFR Section 1.1.9.1.) Describe if the generator replacement studies only consider OC 5-6, or the entire OC 5-8 suite of generation units, given the current retirement timeline of Units 7 and 8 retiring in December 2025.
- PSCW-DG-1.9:** (Application page 34/164, Sections 1.6.2. and 1.6.4., AFR Sections 1.6.2. and 1.6.4.) Describe how the proposed natural gas lateral (Rochester lateral) will affect the project schedule and any critical path items.
- PSCW-DG-1.10:** (Application page 72/164, Section 3.1.3., AFR Section 3.1.3.) Provide an estimated schedule of maintenance for the proposed facility, including energy production not realized during required outages.
- PSCW-DG-1.11:** (Application page 72/164, Section 3.1.4.1., AFR Section 3.1.4.1.) Provide a drawing with physical dimensions of the proposed and alternate layouts or give a specific citation (PSC REF#) to where this information can be found among the previously submitted materials.
- PSCW-DG-1.12:** (Application page 75/164, Section 3.2.6.2.1., AFR Section 3.2.6.2.1.) Estimate what the amounts of the targeted firm supply of 240,000 MMBtu/day would be from the Rochester Lateral project, the ANR 2027 Capacity Expansion, and the Oak Creek LNG facility. Discuss the impact if one or more of these projects are not realized and how that would impact the proposed facility's ability to operate.
- PSCW-DG-1.13:** (Application page 75/164, Section 3.2.6.2.1., AFR Section 3.2.6.2.1.) Calculate the amount of firm natural gas supply that would be required for continuous operation of all five proposed combustion turbines at full output and discuss if enough firm capacity would be realized for such operation of the proposed facility with the Rochester Lateral project, ANR 2027 Capacity Expansion, and the Oak Creek LNG facility.
- PSCW-DG-1.14:** (Application page 75/164, Section 3.2.6.2.1., AFR Section 3.2.6.2.1.) Discuss the impacts of a proposed fuel switch of the Elm Road units from coal to natural-gas firing. Calculate the amount of firm natural gas supply that would be required for the Elm Road units to operate as they have historically. Analyze, with the implementation of the Rochester Lateral project, the ANR 2027 Capacity Expansion, and the Oak Creek LNG facility, if sufficient firm natural gas capacity would exist to serve both the Elm Road units operating as they have historically and continuous operation of all five proposed combustion turbines at full output. If sufficient firm natural gas supply would be unavailable, discuss what additional steps the site would need to take (other pipeline laterals, infrastructure upgrades, etc.) to ensure a sufficient firm gas supply.

- PSCW-DG-1.15:** (Application page 84/164, Section 4.1.1., AFR Section 4.1.1.) Break out the estimated capital costs by major plant account.
- PSCW-TAT-1.16:** (Application page 40/164, Section 1.8.5., AFR Section 1.9.) Provide the land cover and zoning GIS shapefiles used to make the following maps:
- Volume I - Appendix F - Land Cover Map - Alternate Site ([PSC REF#: 496472](#))
 - Volume I - Appendix F - Land Cover Map - Proposed Site ([PSC REF#: 496473](#))
 - Volume I - Appendix F F1 - Wiscland Landcover ([PSC REF#: 496474](#))
 - Volume I - Appendix F F2 - Wiscland Landcover ([PSC REF#: 496475](#))
 - Volume I - Appendix S S1 - Zoning ([PSC REF#: 496490](#))
 - Volume I - Appendix S S2 - Zoning ([PSC REF#: 496499](#))
 - Volume II - Appendix E - Oak Creek Zoning Map ([PSC REF#: 496539](#))
- PSCW-TAT-1.17:** (Application page 22/164, Section 1.1.9.) Provide GIS shapefile(s) that depict the footprints of the existing electric interconnection switchyard(s).
- PSCW-TAT-1.18:** (Application page 34/164, Section 1.6.2., AFR Section 1.6.2.) Provide a description of all major construction activities including any temporary roads, dewatering wells, stream enclosures or re-routing, or other facilities or landscape changes required during construction.
- PSCW-TAT-1.19:** (Application page 97/164, Section 5.7.3., AFR Section 5.7.3.) Provide the recommended phase 1 field investigation report of the three remaining archaeological sites.
- PSCW-TAT-1.20:** (Volume II - Appendix C - GIS Data Sources) Provide updated “ConnectingFacilities_Tlines” GIS shapefile(s) in which the connecting electric transmission line features are categorized by proposed (built only if the proposed site is approved), alternative (built only if the alternative site is approved), and common (built whether either of the proposed or alternative sites are approved).
- PSCW-TAT-1.21:** (Volume I - Appendix I I1 - Connecting Facilities, Volume II - Appendix C - GIS Data Sources) The SCCT Meter Set depicted in the proposed connecting facilities map does not appear in Volume I - Appendix I I2 - Connecting Facilities ([PSC REF#: 496481](#)) nor does a description of “SCCT Meter Set” appear anywhere in 6630-CE-317 OCCT CPCN Application ([PSC REF#: 496434](#) and [496435](#)) or the GIS sources. Confirm whether the SCCT Meter Set is the “new meter set for natural gas fuel supply” mentioned in Section 1.1.2. and/or “Rochester Lateral meter

station” in Section 3.2.1. of the Application. Further, explain why an SCCT meter does not appear in maps depicting the alternative generation site construction layout. Provide updated maps and GIS data if needed.

PSCW-TAT-1.22: (Volume I - Appendix I I2 - Connecting Facilities, Volume II - Appendix C - GIS Data Sources) The fuel supply pipeline depicted in the alternative site map, as well as the accompanying GIS data, does not appear to connect to the existing pipeline, which is described as the “Rochester Lateral” in the Application and named “Lakeshore Lateral 300” in the GIS data. Explain how the fuel supply pipeline for the alternative generation site would connect to an existing pipeline, and confirm the name of the existing pipeline.

CGB;jlt:DL: 02008758