Constellation Energy Generation, LLC (CEG)
Braidwood Station
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April 26, 2024
BW240025

10 CFR 50.73

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Braidwood Station, Unit 2
Renewed Facility Operating License No. NPF-77
NRC Docket No. STN 50-457

Subject: Cancellation of Licensee Event Report 2023-001-00 – Unit 2 Train B Auxiliary Feedwater Pump was inoperable due to Degraded Oil in the Crank Case

References:
1. Letter from G. Gugle (Constellation Energy Generation Company, LLC) to U.S. NRC, " Licensee Event Report 2023-001-00 – Unit 2 Train B Auxiliary Feedwater Pump was inoperable due to Degraded Oil in the Crank Case " dated November 17, 2023 (ADAMS Accession No. ML23321A224)
2. Letter from J. W. Kozal (U.S. Nuclear Regulatory Commission) to D. Rhoades (Constellation Energy Generation Company, LLC), " Braidwood Station Unit 2 – Final Significance Determination for the 2B Auxiliary Feedwater Pump Diesel Engine Fuel Oil Dilution Issue – NRC Inspection Report 05000457/2024090" dated April 19, 2024 (ADAMS Accession No. ML24107B089)

Licensee Event Report (LER) 2023-001-00 (Reference 1) involved an event with the 2B auxiliary feedwater (AF) pump. On September 1, 2023, an oil sample from the 2B auxiliary feedwater (AF) pump diesel engine was obtained. On September 21, 2023, the oil sample results were received which indicated oil viscosity and fuel percent in the Fault range, and a confirmatory sample drawn on September 21, 2023, confirmed the original analysis. LER 2023-001-00 was issued in accordance with 10 CFR part 50.73(a)(2)(i)(B), an operation or condition prohibited by technical specifications (TS), and part 50.73(a)(2)(v)(B), an event or condition that could have prevented fulfillment of a safety function. The LER documented the in-progress investigation of the event to determine whether the diesel engine would have been able to meet its TS mission time.

The evaluation involved full-scale testing performed on a similar diesel engine in December 2023, with lubricating oil diluted by fuel oil. The testing was to determine if the 2B AF pump diesel engine could have performed its safety function of driving the 2B AF pump and other connected equipment for a period of at least 24 hours (the Technical Specification mission time for the 2B AF diesel-driven pump is seven hours, and the probabilistic risk assessment (PRA) mission time is 24 hours).

The results of the testing provide reasonable assurance that diesel engine would have performed its safety function of driving the 2B AF pump and other connected equipment for a period of at least 24 hours following the as-found lubricating oil dilution. The NRC documented the same conclusion in Inspection Report 05000457/2024090 (Reference 2).

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Since reasonable assurance of operability was demonstrated via this testing, this event does not meet either the 10 CFR 50.73(a)(2)(i)(B) criteria of an operation or condition prohibited by TS, or 50.73(a)(2)(v)(B) criteria of an event or condition that could have prevented fulfillment of a safety function. Accordingly, the LER 2023-001-00 is hereby canceled (i.e., formally withdrawn).

There are no regulatory commitments contained in this letter. Should you have any questions concerning this submittal, Mr. Dane Brunswick, Regulatory Assurance Manager, at (779) 231-6246.

Respectfully,

Schuerman, Adam G
Digitally signed by Schuerman, Adam G
Date: 2024.04.26 15:15:37 -05'00'

Adam Schuerman
Site Vice President
Braidwood Station

cc: NRC Project Manager, NRR, Braidwood and Byron Stations
US NRC Regional Administrator, Region III
US NRC Senior Resident Inspector, Braidwood Station
Illinois Emergency Management Agency and Office of Homeland Security – Division of Nuclear Safety
Illinois Emergency Management Agency and Office of Homeland Security – Braidwood Representative