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TS 5.6.6

Date: August 9, 2022
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United States Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261/RENEWED LICENSE NO. DPR-23

Subject: TECHNICAL SPECIFICATIONS SECTION 5.6.6 POST ACCIDENT MONITORING INSTRUMENTATION REPORT FOR INOPERABLE SAFETY VALVE POSITION (Primary)

Duke Energy Progress, LLC hereby transmits a report in accordance with H. B. Robinson Steam Electric Plant, Unit No. 2, (HBRSEP2) Technical Specifications (TS) Section 3.3.3, "Post Accident Monitoring (PAM) Instrumentation," and TS 5.6.6, "Post Accident Monitoring Instrumentation Report."

The report, which is provided as an attachment to this letter, is due to the inoperability of one Safety Valve Position indication channel required to be operable per TS 3.3.3.

Please address any comments concerning this matter to David Hall, Manager of Nuclear Support Services at (843) 951-1358.

This letter contains no new regulatory commitments.

Sincerely,

David Hall
Manager - Nuclear Support Services

Attachment 1: Technical Specifications Section 5.6.6 Post Accident Monitoring Instrumentation 14-Day Report for the Safety Valve Position Indication

c: Ms. Laura Dudes, NRC Regional Administrator, Region II
Ms. Tanya Hood, NRC Project Manager, NRR
Mr. J. Zeiler, NRC Resident Inspector, HBRSEP

ATTACHMENT 1

TECHNICAL SPECIFICATIONS SECTION 5.6.6
POST ACCIDENT MONITORING INSTRUMENTATION 14-DAY
REPORT FOR THE SAFETY VALVE POSITION INDICATION

Description of Condition

At approximately 13:23 hours on July 30, 2022, it was identified that the low alarm light on the pressurizer safety valve RC-551B acoustic monitor (VE-551B) was illuminated. Based on review of other available indications, it was determined that no safety valves had opened. The low alarm for RC-551B would not reset. A work request was initiated and the position indication for pressurizer safety valve RC-551B was declared inoperable.

The actions for Technical Specifications (TS) Section 3.3.3, Post Accident Monitoring (PAM) Instrumentation, Table 3.3.3-1, Function 24, require an inoperable pressurizer safety valve position monitor to be restored to operable status within 7 days. If this indication is not restored within 7 days, TS Section 5.6.6, PAM Instrumentation Report, is required within the following 14 days. TS 5.6.6 states that the report shall outline the preplanned alternate method of monitoring, the cause of the inoperability, and the plans and schedule for restoring the instrumentation channel of the Function to operable status.

Preplanned Alternate Method of Monitoring

Standing Instruction 22-12, effective 8/4/2022 for the VE-551B/RC-551B Accelerometer Monitor B, outlines the alternate method of monitoring safety valve indication. Alternate RC-551B position indication consists of 1) a temperature element on the downstream piping of RC-551B, and 2) a temperature element and pressure/level indicators at the Pressurizer Relief Tank (PRT). These parameters are logged and printed hourly in the control room by the Emergency Response Facility Information System (ERFIS) computer and are reviewed by control room personnel. Additionally, alarms are provided in the control room for PRT pressure, temperature, and level, and for the safety valve downstream piping temperature.

Cause of the Inoperability

This event has been entered into the H. B. Robinson Steam Electric Plant, Unit No. 2, Corrective Action Program. The cause of the RC-551B position monitor inoperability is most likely the preamplifier for the monitoring circuit.

Plans and Schedule for Restoring the Channel

The RC-551B pressurizer safety valve position monitor accelerometer and preamplifier are inside the reactor containment building. Based on personnel safety and radiation exposure considerations, and the understanding that post-maintenance testing of this monitor cannot be performed while the unit is operating, it has been determined that repair of the failed channel during unit operations is not practical. Therefore, RC-551B pressurizer safety valve position monitor will be repaired and returned to operable status no later than the next scheduled refueling outage (November – December 2022).