



Steven K. Sewell
Site Vice President

**Comanche Peak
Nuclear Power Plant
(Vistra Operations
Company LLC)**
P.O. Box 1002
6322 North FM 56
Glen Rose, TX 76043

T 254.897.6113

CP-202400072
TXX-24010
February 29, 2024

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

Ref 10 CFR 50.36

Subject: Comanche Peak Nuclear Power Plant (CPNPP)
Docket No. 50-445
SPECIAL REPORT 1-SR-24-001-00
INOPERABLE POST ACCIDENT MONITORING INSTRUMENTATION


Dear Sir or Madam:

Vistra Operations Company LLC ("Vistra OpCo") provides the enclosed 14-day Special Report titled "COMANCHE PEAK NUCLEAR POWER PLANT - UNIT 1, SPECIAL REPORT 1-SR-24-001-00, INOPERABLE POST ACCIDENT MONITORING INSTRUMENTATION" submitted in accordance with CPNPP Technical Specification 5.6.8, PAM Report.

This communication contains no new regulatory commitments.

Should you have any questions, please contact Kristopher Brigman at (430) 203-3013 or Kristopher.brigman@luminant.com.

Sincerely,


[Steven Sewell \(Feb 28, 2024 14:17 EST\)](#)
Steven K. Sewell

Enclosure: CPNPP - UNIT 1, SPECIAL REPORT 1-SR-24-001-00, INOPERABLE POST ACCIDENT MONITORING INSTRUMENTATION

c (email) - John Monninger, Region IV [John.Monninger@nrc.gov]
Samson Lee, NRR [Samson.Lee@nrc.gov]
John Ellegood, Senior Resident Inspector, CPNPP [John.Ellegood@nrc.gov]
Henry Strittmatter, Resident Inspector, CPNPP [Henry.Strittmatter@nrc.gov]

VISTRA OPERATIONS COMPANY LLC
COMANCHE PEAK NUCLEAR POWER PLANT - UNIT 1
SPECIAL REPORT 1-SR-24-001-00
INOPERABLE POST ACCIDENT MONITORING INSTRUMENTATION

1.0 Report Requirements

This special report is submitted in accordance with Section 5.6.8, PAM Report of the CPNPP Technical Specifications (TS). Specifically, TS Section 3.3.3, Post Accident Monitoring (PAM) Instrumentation requires the PAM Instrumentation to be OPERABLE in MODES 1, 2, and 3 for each function in Table 3.3.3-1. With one or more functions with one required channel inoperable, Condition A.1 requires the inoperable channel be restored to OPERABLE status within 30 days. If the Required Action and associated Completion Time of Condition A is not met then, Required Action B.1 requires initiating actions immediately in accordance with Specification 5.6.8.

When a report is required by the required actions of LCO 3.3.3, "Post Accident Monitoring (PAM) Instrumentation," a report shall be submitted within the following 14 days. The report shall outline the preplanned alternate method of monitoring, the cause of the inoperability, and the plans and schedule for restoring the instrumentation channels of the Function to OPERABLE status.

2.0 Event Background

Containment Sump Water Level (Wide Range) is a Type B Category 1 variable for monitoring containment status tree. Containment Sump Water Level is provided for verification and long term surveillance of RCS integrity. The function of the Containment Sump Level Loop is to provide the Control Room indication of water level in containment in post-LOCA conditions. There are no automatic protective functions associated with these channels. This level indication is Post Accident Monitoring instrumentation as required by Regulatory Guide 1.97.

Technical Specification 3.3.3 requires both trains of Containment Sump Water Level (Wide Range) to be OPERABLE for Modes 1, 2, 3.

On January 17, 2024, while performing INC-7739, CHANNEL CALIBRATION CONTAINMENT WATER LEVEL, 1-L-4779 CONTAINMENT RECIRCULATING SUMP 1-01 LEVEL LOOP failed its functional test. The CONTAINMENT RECIRCULATING SUMP 1-01 LEVEL LOOP was declared inoperable. During the functional check, the current output did not increase as expected when simulating an increasing water level. Troubleshooting determined that the voltage output of the power supply was below the required range. Since the sensor is normally in a dry condition, the power supply failure was not detectable prior to the functional check. Review of previous calibration work order records indicates that all sensors were calibrated to within allowable ranges.

Due to Train A CONTAINMENT RECIRCULATING SUMP LEVEL being Inoperable, Technical Specification LCO 3.3.3, PAM Instrumentation, Condition A for one or more Functions with one required channel inoperable was entered under active LCOAR 7874 on January 17, 2024, at 0745. Condition B was entered on February 16, 2024, at 0745 requiring this report within 14 days.

Repairs to the LEVEL LOOP were delayed due to the lack of availability of repair parts or replacement power supply. Once suitable parts were obtained, the power supply was reworked, installed and tested per procedure. All subsequent data was satisfactory. 1-L-4779 was declared operable on February 20, 2024 at 17:58.

3.0 Required Information

3.1 Preplanned Alternate Methods of Monitoring

As described above, Train A CONTAINMENT RECIRCULATING SUMP LEVEL has been restored to OPERABLE. Therefore, a preplanned alternate method of monitoring is not required for this report.

3.2 Cause of the Inoperability

The cause of the Inoperability was the failure of the voltage regulator to provide proper voltages revealed during the surveillance testing/calibration. The voltage regulator failure was determined to be an age-related board failure.

3.3 Plans and Schedule for Restoring the Instrumentation Channels of the Function to Operable Status

The power supply was reworked, installed and tested per procedure. All subsequent data was satisfactory. 1-L-4779 was declared operable on February 20, 2024 at 17:58.

Both required Post Accident Monitoring CONTAINMENT RECIRCULATING SUMP LEVEL channels are OPERABLE.