



August 11, 2017
L-2017-148

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555-001

Re: Turkey Point Unit 4
Docket No. 50-251
Special Report - Accident Monitoring Instrumentation

In accordance with Technical Specifications 6.9.2 and 3.3.3.3, the attached Special Report is provided for your information.

Should there be any questions regarding this information, please contact Mitch Guth, Licensing Manager at (305) 246-6698.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Mitch Guth', is written over a faint circular stamp.

Mitch Guth
Licensing Manager
Turkey Point Nuclear Plant

SM

cc: Regional Administrator, Region II, USNRC
Senior Resident Inspector, USNRC, Turkey Point Plant

SPECIAL REPORT

Purpose:

This special report is being submitted pursuant to the requirements of Turkey Point Unit 4 Technical Specification (TS) 3.3.3.3, Table 3.3-5, Accident Monitoring Instrumentation, Action 34, part 2) due to the Condenser Air Ejector for High Range-Noble Gas Effluent Monitor (RAD-4-6417) being inoperable for greater than 7 days.

Required Action 34 of TS 3.3.3.3, Table 3.3-5, Item 19.c, states:

“With the number of OPERABLE Channels less than required by the Minimum Channels OPERABLE requirements, initiate the preplanned alternate method of monitoring the appropriate parameter(s), within 72 hours, and:

- 1) Either restore the inoperable channel(s) to OPERABLE status within 7 days of the event, or
- 2) Prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 14 days outlining the action taken, the cause of the inoperability, and the plans and schedule for restoring the system to OPERABLE status.”

This Special Report is being transmitted in accordance with these requirements.

Event and Action Taken:

RAD-4-6417 consists of three channels with the following ranges to cover the total range required (1.0 E-06 to 1.0 E+05 $\mu\text{Ci/cc}$):

Low Range Channel 5:	1.0 E-07 to 6.0 E-02 $\mu\text{Ci/cc}$
Mid Range Channel 7:	2.5 E-02 to 4.0 E+02 $\mu\text{Ci/cc}$
High Range Channel 9:	1.0 E+00 to 1.0 E+05 $\mu\text{Ci/cc}$

In accordance with TS 3.3.3.3, Table 3.3-5, Item 19.c., the Condenser Air Ejector Noble Gas Effluent Monitor is required to be OPERABLE for Modes 1-3.

On July 26, 2017, Unit 4 was operating in Mode 1, at approximately 100% power. At approximately 01:19, RAD-4-6417 was rendered inoperable when condenser air-in leakage exceeded 15 SCFM. Since RAD-4-6417 was not restored to service within 7 days (by August 2, 2017) as required by TS 3.3.3.3, Table 3.3-5, Action 34, this special report is prepared and submitted within the next 14 days to comply with the TS Action 34 requirements.

The pre-planned alternate method of monitoring the appropriate parameters was established on July 26, 2017. The method utilized was grab samples, at least once per 12 hours from the steam generators for isotopic activity analysis as required.

Cause:

The Unit 4 Condenser Air Ejector Noble Gas Effluent Monitor, RAD-4-6417 was declared inoperable due to elevated condenser air-in leakage. Per plant procedures, when condenser air-in leakage exceeds 15 SCFM, it affects proper operation of the condenser steam jet air ejector monitor, and as such, RAD-4-6417 is considered inoperable.

Schedule for Restoration:

On August 10, 2017, at approximately 20:35 following Unit 4 condenser leak repair, with condenser air-in leakage restored to less than 15 SCFM, the Unit 4 Condenser Air Ejector Noble Gas Effluent Monitor, RAD-4-6417, was declared operable.