



February 25, 2014  
L-2014-065

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 Robert J. Tomonto, Licensing Manager at (305) 246-7327.

Sincerely,

Michael Kiley  
Vice President  
Turkey Point Nuclear Plant

SM

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

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## **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 E05  $\mu\text{Ci/cc}$ ):

High Range	Channel 9:	1.0 E00 to 1.0 E+05 $\mu\text{Ci/cc}$
Mid Range	Channel 7:	2.5 E-02 to 4.0 E+02 $\mu\text{Ci/cc}$
Low Range	Channel 5:	1.0 E-07 to 6.0 E-02 $\mu\text{Ci/cc}$

On February 7, 2014 at approximately 0136, Turkey Point Unit 4 measured 22.5 scfm air in leakage in the condenser, which rendered the condenser Air Ejector for High Range-Noble Gas Effluent Monitor (RAD-4-6417) inoperable.

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. Since RAD-4-6417 was not restored to service within 7 days (by February 14, 2014) 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 February 7, 2014. The method utilized was grab samples, once per 8 hours from each steam generator to perform isotopic activity and tritium analysis.

Cause:

With Condenser air in-leakage greater than 15 scfm, the ability of the Condenser Air Ejector Noble Gas Effluent Monitor (RAD-4-6417) to measure primary to secondary system leakage is compromised due to the dilution of noble gases.

Schedule for Restoration:

A failure investigation team is in place and the investigation is ongoing at this time. This condition has been entered in the station's corrective action program to systematically investigate and eliminate the source of higher condenser air in-leakage in order to restore RAD-4-6417 to service.