

FENOC

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Abstract

Tracking and Trending of SGLR Monitor Background & Source-Check Trends

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In 2002, INPO indicated that performance of radiation monitors used to identify primary to secondary steam generator tube leakage is not adequately trended to promptly identify and evaluate loss of sensitivity between [monitor] calibrations. Specifically, the current program used at BVPS did not meet the guidance in Significant Operating Experience Report (SOER) 93-1, "Diagnosis and Mitigation of Reactor Coolant System Leakage Including Steam Generator Tube Ruptures," recommendation 3.

This was a repeat AFI for Chemistry at BVPS. Specifically, a previous response to INPO regarding the initial AFI indicated that BVPS would trend backgrounds and source checks of the Steam Generator Leak Rate Radiation Monitors (SGLR). Contrary to this, BVPS was not trending the monitor source checks at a frequency that would permit identification of a loss in detector sensitivity between monitor calibrations.

A complete overhaul of the Beaver Valley Unit 1 & 2 SGLR monitoring program was performed and implemented throughout CY 2003. Since implementation, a total of four independent Effective Reviews were performed. The current program is considered successful because it has been used to identify degrading trends on seven separate occasions for the radiation monitors being trended. In summary, all plots (graphs) of data showing Background Trends & Source-Check Trends must meet either (1) the pre-established Acceptance Criteria contained in BVPS procedures or (2) has a Condition Report (CR) to document deviation and associated Corrective Actions. All CR's are documented on the appropriate graphs