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APR 2 8 2006

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U. S. Nuclear Regulatory Commission
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SPECIAL REPORT
MAIN STEAM LINE MONITOR INOPERABLE GREATER THAN 7 DAYS
SALEM - UNIT 2
FACILITY OPERATING LICENSE NO. DPR-75
DOCKET NO. 50-311

This special report is being submitted pursuant to the requirements of Salem Unit 2 Technical Specification (TS) 3.3.3.1, which requires one Main Steam Line Radiation Monitor per steam line. Action statement 3.3.3.1.b requires that action be taken to restore an inoperable radiation monitor channel within seven (7) days, and to submit a Special Report pursuant to TS 6.9.2, if unsuccessful.

The design of the Main Steam Line Radiation Monitors consists of one detector per steam line (R46A-D), and a common detector (R46E) capable of monitoring any of the four main steam lines. These detectors receive process flow from the main steam lines, which is cooled by chilled water and monitored by the detector.

The common detector (R46E) has been inoperable due to leakage into the detector. The detector and its instrument drawer were sent to the vendor for repairs. Although this channel has been inoperable, the TS requirements were maintained by detectors R46A-D.

Channel R46C was declared inoperable on April 10, 2006 to perform planned elective maintenance to repair a minor steam leak on a solenoid valve. During the course of this corrective maintenance, it was determined that a section of steam piping on the detector needed to be replaced. Although not part of the original job scope, the pipe integrity was critical to returning R46C an to operable status.

The additional piping to support repairs to the R46C was obtained and the detector was repaired, retested and declared OPERABLE on April 21, 2006. Investigation as to why the pipe was not available to support repairs is ongoing and has been entered into the station's Corrective Action Program.

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The repaired R46E detector and instrument drawer are scheduled to be returned from the vendor in June 2006. The current design of the Main Steam Line Radiation Monitors is an obsolete, antiquated design that routes main steam flow to a detector. The station is planning to install a new "dry system" design that is attached external to the main steam piping. This system is expected to be more reliable. It is anticipated that this design change will be installed in September 2006.

This special report contains no commitments. If you have any questions on this report, please contact Justin Wearne at (856) 339-5081.

Sincerely,

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