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**LRN-03-0415**



United States Nuclear Regulatory Commission  
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**Special Report 354/03-006**  
**Hope Creek Generating Station**  
**Facility Operating License NPF-57**  
**Docket No. 50-354**

This special report is being submitted pursuant to the requirements of Hope Creek Technical Specification (TS) 3.3.7.5, ACTION 81b, due to the North Plant Vent (NPV) high range noble gas monitor being inoperable for greater than 72 hours.

On September 14, 2003 at 1300 hours, TS 3.3.7.5 "Accident Monitoring Instrumentation" Limiting Condition for Operation (LCO) and Offsite Dose Calculation Manual (ODCM) 3.3.7.11, "Radioactive Gaseous Effluent Monitoring Instrumentation" Action Statements were entered to perform scheduled maintenance and testing.

TS 3.3.7.5, Action 81 states; "With the number of OPERABLE accident monitoring instrumentation channels less than required by the Minimum Number of Channels OPERABLE requirement, either restore the inoperable channel (s) to OPERABLE status within 72 hours, or: a. Initiate the preplanned alternate method of monitoring the appropriate parameter(s), and b. Prepare and submit a Special Report". The requisite alternative monitoring was initiated and in place for the LCO duration.

The NPV was declared inoperable when, during performance of HC.IC-FT.SP-0015, Process Radiation Monitoring-Non-Divisional Monitor 18P-RY-4873B, North Plant Vent Functional Test, Step 5.2.10.D could not be satisfactorily completed. Step 5.2.10.D requires verification that the red PUMP ON LOW lamp illuminates and the green PUMP OFF LOW lamp extinguishes.

An attempt was made to start the skid sample flow from the control room. The red PUMP ON LOW lamp flashed on then remained off. The green PUMP OFF LOW lamp flashed off; then remained on. The pump could be started manually at the skid. Troubleshooting of the condition revealed that the as found power fail set point values, Trip and Reset, were 109 vac and 118.2 vac respectively, versus the desired set

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points of 100 vac and 105 vac, respectively. An attempt was made to calibrate the Trip and Reset set points per HC.IC-CC.SP-0015. The Reset set point of 105 vac could not be set lower than 106.4 vac. The Power/Isolation board was replaced. Calibration of the Trip and Reset set points was still unsuccessful. The Low Voltage Power Supply voltage to the Power/Isolation board was checked. This showed that some voltages were not in the desired range. The Low Voltage Power Supply board was replaced and the original Power/Isolation board reinstalled. Calibration in accordance with HC.IC-CC.SP-0015 was performed. Step 5.2.10.D of HC.IC-FT.SP-0015 (Q), was then completed with satisfactory results and the system was declared operable.

Technical Specification 3.3.7.5, Action 81 was entered at 1300 hours on September 14, 2003. The system was declared OPERABLE on September 21, 2003 at 1508 hours. The failure of the system and the duration of inoperability have been entered into the corrective action program for evaluation.

Should there be any questions regarding this matter please contact Michael Mosier at 856-339-5434.

Sincerely,

  
James Hutton  
Hope Creek Plant Manager

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