

Virginia Electric and Power Company  
North Anna Power Station, Unit No. 2 NPF-7  
Bucket No. 50-339

24 Hour Reportable Event  
Written Follow-Up

Event: Low Head Safety Injection Pump Nozzles Stressed Over the Design Allowable  
LER/RO 80-10/OIT-0

During review of the Unit 2 Emergency Core Cooling System piping for fluid temperatures below 70° F (Unit 1 LER 80-34/OIT-0), it was discovered that the loading on the Low Head Safety Injection Pump Nozzles (2-SI-P-1A and 1B) exceeds the design stress allowable.

These overstressed conditions apparently resulted from a deficiency in the associated piping system stress analysis.

The existing pump discharge support arrangements are being reanalyzed to determine the modifications necessary to correct the situation. As of now, it appears that a total of 13 pipe hangers need to be modified. Eleven rigid constraints will be changed to a combination spring and suppressor arrangement, the spring on one existing spring hanger will be changed to a different spring and combined with a snubber, and one existing spring hanger will be changed out. The required analysis has not yet been completed and the planned hanger rework is subject to change. All necessary support modifications to correct the overstressed conditions will be completed prior to initial criticality.

The unit is presently in Mode 3 at 547° F and undergoing startup testing preparation for criticality.

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