

Virginia Electric and Power Company
North Anna Power Station, Unit #1, NPF-4
Docket No. 50-338

USNPO REC
ATLANTA, GA

24 Hour Reportable Event
Written Follow-Up (supplement)

Event: ESF Systems Returning to Non-Safety Mode
Upon Reset of CDA Signal
LER/RO 79-141/01T-D

NOV 14 AM 11:23

While reviewing the operation of the service water system, the casing cooling subsystem and the recirculation spray system, it was discovered that the systems operate in a manner less conservative than that assumed in the accident analyses in the safety analysis report.

Following receipt of a Containment Depressurization Actuation (CDA) signal resetting the CDA signal prior to the expiration of the time delay relay to start the recirculation spray pumps will prohibit the function of the pumps. This is not consistent with FSAR Comment 7.4.

Following receipt of a Containment Depressurization Actuation (CDA) signal, resetting the CDA signal prior to the expiration of the time delay relay to start the service water radiation monitoring sample pumps, will prohibit the function of these pumps. This is not consistent with FSAR Comment 7.4.

When the casing cooling pumps are started from a Containment Depressurization Actuation (CDA) signal and the CDA signal is subsequently reset the pumps will not restart automatically following restoration of emergency power assuming a loss of offsite power occurred after CDA was reset. This is not consistent with FSAR response to Criterion 20 - Protection system functions or FSAR Comment 7.4.

When the control switch for the containment recirculation air cooler is placed in the service water position, MOV-SW110A, MOV-SW110B, TV-SW101A and TV-SW101B open to supply water to the coolers. Upon receipt of a Containment Depressurization Actuation (CDA) signal these valves close to isolate the coolers from service water. This is required since this additional service water flow is not used in the accident analyses. When the CDA signal is reset the system returns to its non-safety mode. This is not consistent with FSAR Comment 7.4.

The cause of these discrepancies are not known. These discrepancies have not affected the plant and are under review by the engineering staff. The plant is presently in a refueling shutdown. These events are similar to LER/RO 79-141 and will be included in that 14 day report.

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