

SAFETY EVALUATION REPORT

BRUNSWICK STEAM ELECTRIC PLANT - UNITS 1 AND 2

 OVERRIDE OF CONTAINMENT PURGE ISOLATION AND
 OTHER ENGINEERED SAFETY FEATURES ACTUATION SIGNALSIntroduction

Instances have been reported at nuclear power plants where the intended automatic closure of containment purge/ventilation valves during a postulated accident would not have occurred because the safety actuation signals were inadvertently overridden and/or blocked. These instances were determined to constitute an Abnormal Occurrence (#78-5). As a followup action, NRR issued a generic letter requesting each licensee to take certain actions.

Evaluation

The enclosed report (EGG-EA-5198) was prepared for us by EG&G, Idaho, as part of our technical assistance contract program. The report provides their technical evaluation of the design compliance with NRC-provided criteria. The report is directly applicable to both Unit 1 and Unit 2, since the design of both Units is the same.

During the course of our review the licensee completed some plant modifications and committed to complete additional modifications during the 1980 refueling outages. The additional modifications were: (a) circuit modifications to allow a subsequent isolation signal to the purge/vent valves to defeat an initial manual override action, and (b) installation of keylock switches in place of the previous override switches. Completion of these modifications brings the Units into conformance with five of the six NRC criteria.

Criterion #3 requires that system-level annunciation to indicate the overridden status be provided when an override is in effect. At Brunswick, only status lights are provided. We require that automatic annunciation of the override of a safety system be provided.

Conclusions

Based upon our participation in this technical review and upon our review of the contractor's report, we conclude that the modifications scheduled for the 1980 refueling outages bring the Units into conformance with five of the six NRC-criteria.

We require that the licensee modify the facilities to provide system-level automatic annunciation of overridden status, whenever an override is active.

We consider the contractor's report to be a final report, in that no further contractor effort is required for these Units on this subject.