

X Central Files

SEP 26 1979

REGULATORY DOCKET FILE COPY

MEMORANDUM FOR: Dennis L. Ziemann, Chief
 Operating Reactors Branch No. 2, DOR

FROM: Dennis M. Crutchfield, Chief
 Systematic Evaluation Program Branch, DOR

SUBJECT: REQUEST ADDITIONAL INFORMATION FOR BIG ROCK POINT
 PLANT CONTAINMENT PURGE SYSTEM

POOR ORIGINAL

As followup to September 14, 1979 telecon with the Big Rock Point licensee, the following concerns on the electrical and instrumentation design area should be forwarded to the licensee.

1. In the licensee's submittal on "additional information relative to fuel handling accident in containment" dated November 21, 1978, the licensee has recognized some single failures in electrical design. In addition, because of the automatic vacuum relief system circuits being integrated into the containment isolation system, there are several other single failure in the vacuum relief system that could block an isolation signal. A technical evaluation report was prepared by our consultant, EG&G Idaho, Inc., on Big Rock Point plant containment isolation system (CIS). The report has concluded that the lack of redundancy and independence in the air supply and exhaust portion of the containment isolation system and its integrated vacuum relief system, which leaves this CIS to numerous disabling single failures. The staff has reviewed this report and concur in its conclusions.

A copy of EG&G report No. RE-A-79-045 is attached. The licensee is requested to address each single failure postulated in the report and provide a justification and/or proposed modification to the CIS.

2. There is only one manual control switch (HS-9001) to close both air supply valves and both exhaust valves. In July 16, 1973, I&E Bulletin No. 73-2 require all licensees take action to determine whether the failure of a single control switch could result in the simultaneous failure of the redundant supply valves or redundant exhaust valves. The licensee is requested to address their response to this bulletin.

1177 089

OFFICE >						
SURNAME >						
DATE >						

7910180564

3. The generic evaluation on containment purge system electrical design has established certain criteria. A copy of these criteria are attached for licensee's information.

Dennis M. Crutchfield, Chief
Systematic Evaluation Program Branch
Division of Operating Reactors

Attachment 1:
EG&G Idaho, Inc. Report No. RE-A-79-045

Attachment 2:
Criteria for evaluation of containment purge system electrical design.

cc: R. Silver
J. Shapaker
J. Knight
S. Brown
H. Li

DISTRIBUTION:
Central Files
SEP8 RDG
DCrutchfield

1177 090

OFFICE →	DSS	SEP8:DOR	SEP8:DOR			
SURNAME →	HLi/bjd	JShapaker	DCrutchfield			
DATE →	9-24-79	9-26-79	9-24-79			