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W. Etherington, Prospective Core
Isolation Cooling Systems Subcommittee Chairman
W. Okrent
R. H. Wilcox Signed R. H. Wilcox

December 28, 1965

CATEGORY B REPORT - GENERAL ELECTRIC COMPANY - RCIC SYSTEM

DRL letter to GE dated November 17, 1965 contains AEC Staff comments on the proposed RCIC system. The comments are based on the Staff's review of a document submitted by GE* and upon discussions held at an informational seminar on October 21, 1965**.

The Staff comments that the proposed system appears to purposely negate, under some circumstances, the primary system, which is the second barrier of the three barrier "defense in depth" concept normally used. The previously used isolation condensers maintain the integrity of the primary system.

The Staff raises two questions:

1. How much primary coolant need be released to the containment to reduce the pressure to 150 psig, at which point the primary system again could be made intact?
2. With normal but high coolant radioactivity, how much activity would be released to the containment upon turbine trip or loss of condenser vacuum and what would be the containment pressure rise?

DRL suggests that GE submit a "comprehensive analysis" of the use of this system and its "attendant safety considerations" as well as the "bases" for utilizing the RCIC System instead of Isolation Condensers.

* "The RCIC System", by J. G. Kjemtrup, dated 10/15/65 (Company Private). Distributed on 10/18/65 to HE, HWN, DO, NJP, LS and TJT.

** See RHW Memo to Files dated 10/25/65 transmitted by RHW Memo to HSW dated 10/25/65 with copies to full ACRS. This meeting was attended by HSW and RHW.

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The method which the ACRS will use in reviewing such systems as these is to be discussed at the Procedures Subcommittee Meeting on January 5, 1966 and at the 69th Meeting on January 6-8, 1966. This DEL letter should provide good background information for these discussions.

The formal GE application for approval of this system has yet to be submitted. No present ACRS action appears warranted.

Attachment:

DEL ltr. to GE dtd 11/17/65

CC: W. D. Manly w/o attachment
H. W. Newson w/o attachment

OFFICE ▶	ACRS					
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DATE ▶	12/28/65					