

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION II 101 MARIETTA STREET, N.W. ATLANTA, GEORGIA 30303

APR 2 1 1979

In Reply Refer To: RII:JPO 50-395

> South Carolina Electric and Gas Company ATTN: Mr. M. C. Johnson, Vice President and Group Executive - Special Services and Purchasing P. O. Box 764 Columbia, South Carolina 29202

Gentlemen:

The enclosed Bulletin 79-75B is forwarded to you for information. No written response is required. We have also enclosed copies of recommendations of the ACRS to the Commission for your information. If you desire additional information regarding this matter, please contact this office.

Sincerely,

James P. O'Reilly Y Director

Enclosures:

- 1. IE Bulletin No. 79-05B
- with Enclosures
- ACRS Recommendations to the Commission dated April 18, 1979 and April 20, 1979

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South Carolina Electric and Gas Company

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cc w/encl: T. B. Conners, Jr. Conners, Moore and Corber 1747 Pennsylvania Avenue, N.W. Washington, D.C. 20006

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UNITED STATES NUCLEAR REGULATORY COMMISSION OFFICE OF INSPECTION AND ENFORCEMENT WASHINGTON, DC 20555

APRIL 21, 1979

IE Bulletin 79-05B

NUCLEAR INCIDENT AT THREE MILE ISLAND - SUPPLEMENT

Description of Circumstances:

Continued NRC evaluation of the nuclear incident at Three Mile Island Unit 2 has identified measures in addition to those ciscussed in IE Bulletin 79-05 and 79-05A hich should be acted upon by licensees with reactors designed by B&W. As discussed in Item 4.c. of Actions to be taken by Licensees in IEB 79-05A, the preferred mode of core cooling following a transient or accident is to provide forced flow using reactor coolant pumps.

It appears that natural circulation was not successfully achieved upon securing the reactor coolant pumps during the first two hours of the Three Mile Island (TMI) No. 2 incident of March 28, 1979. Initiation of natural circulation was inhibited by significant coolant voids, possibly aggravated by release of noncondensible gases, in the primary coolant system. To avoid this potential for interference with natural circulation, the operator should ensure that the primary system is subcooled, and remains subcooled, before any attempt is made to establish natural circulation.

Natural circulation in Babcock and Wilcox reactor systems is enhanced by maintaining a relatively high water level on the secondary side of the once through steam generators (OTSG). It is also promoted by injection of auxiliary feedwater at the upper nozzles in the OTSGs. The integrated Control System automatically sets the OTSG level setpoint to 50% on the operating range when all reactor coolant pumps (RCP) are secured. However, in unusual or abnormal situations, manual actions by the operator to increase steam generator level will enhance natural circulation capability in anticipation of a possible loss of operation of the reactor coolant pumps. As st ted previously, forced flow of primary coolant through the core is prefe red to natural circulation.

Other means of reducing the possibility of void formation in the reactor coolant system are:

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	reduction by a blowdown through a	Entire document previously entered into system under:
		ANO 7905040158
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