



73

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
631 PARK AVENUE  
KING OF PRUSSIA, PENNSYLVANIA 19406

Docket Nos. 50-354  
50-355

July 3, 1980

Public Service Electric and Gas Company  
ATTN. Mr. T. J. Martin  
Vice President  
Engineering and Construction  
80 Park Place  
Newark, New Jersey 07101

Gentlemen:

The enclosed IE Bulletin No. 80-17 is forwarded to you for information. No written response is required. If you desire additional information regarding this matter, please contact this office.

Sincerely,

*Boyce H. Grier*  
Boyce H. Grier  
Director

Enclosures:

1. IE Bulletin No. 80-17
2. List of Recently Issued IE Bulletins

CONTACT: D. L. Caphton  
(215-337-5266)

cc w/encls:

E. N. Schwalje, Manager - Quality Assurance,  
Engineering and Construction Department

8008080 490

Q

ENCLOSURE 1

SSINS No.: 6820  
Accession No.:  
8005050076

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT

July 3, 1980

IE Bulletin No. 80-17

FAILURE OF 76 OF 185 CONTROL RODS TO FULLY INSERT DURING A SCRAM AT A BWR

Description of Circumstances:

On June 28, 1980, 76 of the 185 control rods failed to fully insert during a routine shutdown at TVA's Browns Ferry Unit No. 3 located at Athens, Alabama. The reactor was manually scrammed from about 30 percent power in accordance with routine shutdown procedures. The shutdown was initiated to repair the feedwater system. The 76 control rods that failed to fully insert were all on the east side of the core.

Following scram discharge volume (SDV) high level bypass and a short drain period of the SDV, a second manual scram was initiated and all partially inserted rods were observed to drive inward, but 59 remained partially withdrawn. A third manual scram was made, again following high level in the SDV and bypassing for another short drain of the SDV, with the result that 47 rods remained partially withdrawn. Following a longer drain of the SDV, an automatic scram occurred that was initiated by a scram discharge volume tank high water level signal when the scram reset switch was placed in "Normal"; with this scram all remaining rods fully inserted. The total time elapse from the initial scram to the time that all rods were inserted was approximately 15 minutes. Core coolant flow, temperature and pressure remained normal for plant conditions. The unit is now shutdown and additional testing indicates that a possible cause of the malfunction was the retention of a significant amount of water in the east bank scram discharge volume. In view of these interim findings and pending results of continued investigation, the following actions are to be taken.

Actions To Be Taken By Licensees:

All General Electric Boiling Water Reactors with operating licenses which are operating at any power on the date of this Bulletin shall perform the following steps in the time stated. Those that are not operating shall perform the following steps prior to operating:

1. Within 3 days from the date of the tests to verify that there is no water in the Discharge Volume (SDV) and as required, the vent system is operable and vent system

DUPLICATE DOCUMENT

Entire document previously  
entered into system under:

ANO 8005050076

No. of pages: 5