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

May 14, 1980

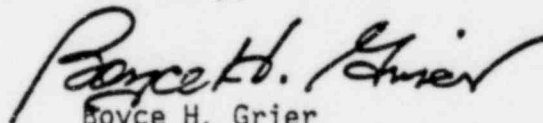
Docket Nos. 50-354
50-355

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 Circular No. 80-12, "Valve-Shaft-To-Actuator Key May Fall Out of Place When Mounted Below Horizontal Axis," 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
Director

Enclosures:

1. IE Circular No. 80-12 with Attachments
2. List of Recently Issued IE Circulars

CONTACT: D. L. Capton
(215-337-5346)

cc w/encls:

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

8005290301

ENCLOSURE 1

UNITED STATES
NUCLEAR REGULATORY COMMISSION
OFFICE OF INSPECTION AND ENFORCEMENT
WASHINGTON, D.C. 20555

SSINS No.: 6830
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8005050052

IE Circular No. 80-12
Date: May 14, 1980
Page 1 of 2

VALVE-SHAFT-TO-ACTUATOR KEY MAY FALL OUT OF PLACE WHEN MOUNTED BELOW
HORIZONTAL AXIS

Description of Circumstances:

Tennessee Valley Authority has identified and reported to the NRC a non-conformance on a Bettis Robot-Arm actuator installed on a Pratt butterfly valve at the Sequoyah nuclear plant.

It is reported (ref. attached 10 CFR 50.55(e) report) that a valve became inoperable when the valve-shaft-to-actuator key fell out of place. It is further noted that the orientation of this valve assembly was such that the operator was on the bottom of the valve (below the horizontal axis).

The Pratt butterfly valve furnished with Bettis actuator is designed with a press-fit keyway connection valve/actuator. We believe other manufacturers' connections may be of similar construction and therefore subject to this failure mode.

On May 1, 1980, Pratt Company sent letters to their customers who have these connections (attached list). They recommended that their customers review their installation of such connections, and if the keyway is oriented below horizontal, make one of the following field modifications:

1. Add a spacer bushing, or shim plate to fill the void between the top of the shaft and the indicating plate on the actuator.
2. Locally upset the end of the valve shaft in the area of the keyway using a hand punch in such a way that the key could not work loose.
3. Install new keys of longer length which extend above the end of the valve shaft whereby the key is up to the actuator plate and could not slip down if inverted.

Recommended Action for Licensee Consideration:

We request that all plants make the connections similar to the above described connections not supplied by those particular manufacturers are susceptible to failure, one of the appropriate action should be taken to

DUPLICATE DOCUMENT

Entire document previously
entered into system under:

AND

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No. of pages: 5