UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TEXAS 76012

bcc to DAC:ADM:
CENTRAL FILES
PDR:HQ
LPDR
~~TIC~~
NSIC

STATE

May 14, 1980

Docket Nos. 50-313
50-368

Arkansas Power and Light Company
ATTN: Mr. William Cavanaugh III
Vice President of Generation
and Construction
P. O. Box 551
Little Rock, Arkansas 72203

Gentlemen:

The enclosed IE Circular No. 80-12, is forwarded to you for information. If there are any questions related to your understanding of the suggested actions, please contact this office.

Sincerely,

Karl V. Seyfrit
Director

Enclosures:
1. IE Circular No. 80-12
2. List of Recently Issued
IE Circulars

cc: James P. O'Hanlon, Plant Manager
Arkansas Nuclear One
P. O. Box 608
Russellville, Arkansas 72801

ENCLOSURE 1

SSINS No.: 6830
Accession No.:
8005050052

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

IE Circular No. 80-12
Date: May 14, 1980

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 des
not supplied by those particular man
are susceptible to failure, one of t
appropriate action should be taken t