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SUBJECT: Part 21 & interim deficiency rept re disengaged operators for 90 degree tuflin plug valves.

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TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

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**JAN 08 1988**

BLRD-50-438/87-07  
BLRD-50-439/87-06

10 CFR 50.55(e)

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
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Gentlemen:

BELLEFONTE NUCLEAR PLANT (BLN) UNITS 1 AND 2 - DISENGAGED OPERATORS FOR 90°  
TUFLINE PLUG VALVES - BLRD-50-438/87-07, BLRD-50-439/87-06 - INTERIM REPORT

The subject deficiency was initially reported to NRC-Region II Inspector  
Joe Brady on November 27, 1987, in accordance with 10 CFR 50.55(e) as  
CAQR BLF870201. Enclosed is our interim report. We expect to submit our  
final report on or about one year before fuel load. We consider 10 CFR 21  
applicable to CAQR BLF870201.

A delay in submittal of this report to January 11, 1988, was discussed with  
NRC Region II Inspector K. P. Barr on December 29, 1987.

If there are any questions, please get in touch with P. C. Mann at  
(205) 574-8820.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*R. Gridley*  
R. Gridley, Director  
Nuclear Licensing and  
Regulatory Affairs

Enclosures  
cc: See page 2

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ENCLOSURE 1

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2  
DISENGAGED OPERATORS FOR 90° TUFLINE PLUG VALVES  
BLRD-50-438/87-07 AND BLRD-50-439/87-06  
CAQR NO. BLF870201  
10 CFR 50.55(e)  
INTERIM REPORT

Description of Deficiency

Xomox Corporation indicated that their Tufline 90° plug valves may become disengaged from the valve operators. This will cause the valves to become inoperable. The affected valves are designated by TVA mark numbers 3BW0454-NM-205, 3BW0456-KC-01, and 7KW0506-KE-10, and they all use Limatorque 90° electric motor operators with H-BC gears. The valves of mark numbers 3BW0454-NM-205 and 3BW0456-KC-01 are Category I nonactive. However, the valves of mark number 7KW0506-KE-10 are used as isolation valves between the Essential Raw Cooling Water (ERCW) screen wash pumps and traveling water screens. These valves are Category I active and therefore a significant condition exists if the active valves fail to operate.

Interim Progress

Xomox Corporation has identified the potential modes of failure for the valves mentioned above. They will provide modification kits to be used by TVA to repair the valves. TVA will inspect and appropriately test the valves after repairs are implemented in order to verify their adequacy.

TVA will also perform a review to determine if any valves procured from other vendors use the Limatorque 90° electric motor operators with H-BC gears.

ENCLOSURE 2

LIST OF COMMITMENTS  
FOR BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2

1. Upon receipt of modification kits from Xomox Corporation, the valves will be repaired, then inspected and tested to verify their adequacy.
2. Valves procured from other vendors using the Limitorque 90° electric motor operators with H-BC gears will be reviewed.
3. Final report to NRC will be provided.