

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

April 25, 1985

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BLRD-50-438/82-37
BLRD-50-439/83-08

U.S. Nuclear Regulatory Commission
Region II

Attn: Dr. J. Nelson Grace, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Dr. Grace:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - FAILURE OF B.I.F. BUTTERFLY VALVE
SEATS - BLRD-50-438/82-37, BLRD-50-439/83-08 - SEVENTH INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on May 11, 1982 in accordance with 10 CFR 50.55(e) as NCR 1819. This was followed by our interim reports dated June 8, and October 29, 1982; February 8, May 25, and July 28, 1983; and September 18, 1984. Related NCRs 2170, 2186, and 2187 were included in our second interim report and NCR 2231 was included in our fourth interim report. Enclosed is our seventh interim report. We expect to submit our next report on or about August 27, 1985. We consider 10 CFR Part 21 applicable to this deficiency.

If you have any questions concerning this matter, please get in touch with R. H. Shell at FTS 858-2688.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. A. Hufham
J. W. Hufham, Manager
Licensing and Regulations

Enclosure

cc: Mr. James Taylor, Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Records Center (Enclosure)
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
FAILURE OF B.I.F. BUTTERFLY VALVE SEATS

NCRs 1819, 2170, 2186, 2187, 2231
BLRD-50-438/82-37, BLRD-50-439/83-08
10 CFR 50.55(e)

SEVENTH INTERIM REPORT

Description of Deficiency

The following butterfly valves, manufactured by Basics Inflow Incorporated (BIF) a unit of General Signal Corporation, West Warwick, Rhode Island, which are used in the Essential Air System were determined to be leaking in excess of an acceptable rate.

<u>UNID Number</u>	<u>Mark No.</u>	<u>Contract No.</u>	<u>Item No.</u>	<u>BIF Serial Number</u>
1RJ-VTAC-50B	3BW0471-00-20	76K38-86163-3	577	N-49445-10
1RJ-VTAC-44B	3BW0471-00-15	76K38-86163-3	576	N-49444-7
1RJ-VTAC-27A	3BW0471-00-15	76K38-86163-3	576	N-49444-2

Further investigation revealed that the rubber seats had failed because of damage, i.e., the seats were cut and portions were missing. The cause of the damage was not apparent.

Interim Progress

All of the damaged valve seats have been replaced either by TVA or BIF. TVA is presently planning a test program to spot check leakage rates on recently repaired valve seats to determine the adequacy of the replacement seats. TVA will provide the root cause and corresponding actions required to prevent recurrence of similar deficiencies in the final report.