

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

June 15, 1983

USNRC REGION II
ATLANTA, GEORGIA
83 JUN 16 P8:59

BLRD-50-438/83-37

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNIT 1 - OFFSET OF DUTCHMAN IN THE INCORE
MONITORING SYSTEM - BLRD-50-438/83-37 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
P. E. Fredrickson on May 16, 1983 in accordance with 10 CFR 50.55(e) as
NCR 2352. Enclosed is our first interim report. We expect to
submit our next report by August 24, 1983.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills
L. M. Mills, Manager
Nuclear Licensing

Enclosure

cc: Mr. Richard C. DeYoung, 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 UNIT 1
OFFSET OF DUTCHMAN IN THE INCORE MONITORING SYSTEM
BLRD-50-438/83-37
10 CFR 50.55(e)
NCR BLN EEB 8302
FIRST INTERIM REPORT

Description of Deficiency

The incore monitoring system (IMS) piping must be installed in precise lengths to assure proper positioning of the incore detector assemblies. The IMS pipe lengths are field adjusted by machining dutchman pipes to fit after the overall pipe lengths are gauged. The dutchmen for 9 of the 62 IMS pipes for unit 1 are offset relative to the longitudinal axis of the pipe runs. For six of the pipes, the offset exceeds the 1° limit in B&W's erection criteria by amounts ranging from 0°-11' to 1°-52'. The cause of these defects is poor workmanship during field installation. There have been no similar deficiencies in the past for Bellefonte and the unit 2 IMS piping has not yet been installed. There are no implications for other TVA plants.

Interim Progress

Babcock & Wilcox has been notified and requested to advise TVA of the necessary corrective action. TVA will provide more information upon receipt of this information.