

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

September 21, 1982

BLRD-50-438/82-10

BLRD-50-439/82-10

U.S. Nuclear Regulatory Commission

Region II

Attn: Mr. James P. O'Reilly, Regional Administrator

101 Marietta Street, Suite 3100

Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - CHILLER UNIT PIPING COMPONENTS
IMPROPERLY WELDED - BLRD-50-438/82-10, BLRD-50-439/82-10 - THIRD INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. V. Crlenjak on January 11, 1982 in accordance with 10 CFR 50.55(e) as
NCR 1707. This was followed by our interim reports dated February 16
and June 23, 1982. Enclosed is our third interim report. We expect to
submit our next report by November 30, 1982. 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

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, DC 20555

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USNRC REGION II
ATLANTA, GEORGIA

ENCLOSURE
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
CHILLER UNIT PIPING COMPONENTS IMPROPERLY WELDED
NCR 1707
BLRD-50-438/82-10, BLRD-50-439/82-10
10 CFR 50.55(e)
THIRD INTERIM REPORT

Description of Deficiency

The chiller units listed below, manufactured by Dunham-Bush of West Hartford, Connecticut, exhibit extensive weld deficiencies on welds performed by the vendor. Visual examination revealed undercut, cold lapped, porosity, weld spatter, lack of fusion, mismatched components, numerous arc strikes, weld wires protruding from welds, and slag pockets.

Dunham-Bush Chiller Identification Numbers - Auxiliary Building
Model Number - IPCX290-OQ

<u>PCX Serial Number</u>	<u>Location</u>
DPW 2013M77X1633C -	Between A2&A3 - R&S Line (610')
DPW 2013M77X1633A -	Between A2&A3 - R&S Line (610')
DPW 2013M77X1633B -	Between A5&A6 - R&S Line (610')
DPW 2013A78X1633H -	Between A5&A6 - R&S Line (610')
DPW 2013A78X1633D -	A10 Between R&S Line (610')
DPW 2013A78X1633G -	A10 Between R&S Line (610')
DPW 2013A78X1633F -	Between A12&A13 - R&S Line (610')
DPW 2013A78X1633E -	Between A12&A13 - R&S Line (610')

Dunham-Bush Chiller Identification Numbers - Control Building
Model Number - IPCX230-OQ

<u>PCX Serial Number</u>	<u>Location</u>
DPW 2010M77X1601A -	Between C2&C3 - N&P Line (629')
DPW 2010M77X1601B -	Between C2&C3 - N&P Line (610')

Interim Progress

TVA has evaluated the effects of the deficiencies on the seismic integrity of chillers and determined that the seismic integrity is unaffected. TVA has also evaluated the service life and reliability aspects of recommendations which resulted from the seismic review and determined that these aspects are unaffected also.

TVA is investigating the cause of this nonconformance and the actions required to prevent recurrence.