

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

84 AUG 16 10 33 AM '84
August 16, 1984

BLRD-50-438/84-06
BLRD-50-439/84-05

U.S. Nuclear Regulatory Commission
Region II
Attn: Mr. James P. O'Reilly, Regional Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

Dear Mr. O'Reilly:

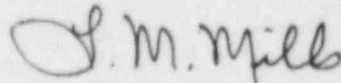
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - LENGTHS OF FLEX CONDUIT EXTENSIONS
NOT AS SPECIFIED - BLRD-50-438/84-06, BLRD-50-439/84-05 - SECOND INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
P. E. Fredrickson on January 12, 1984 in accordance with 10 CFR 50.55(e) as
NCR 2707. This was followed by our interim report dated February 7, 1984.
Enclosed is our second interim report. We expect to submit our next report
by December 14, 1984.

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, 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

8409100009 840810
PDR ADDCK 05000438
S PDR

ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
LENGTHS OF FLEX CONDUIT EXTENSIONS NOT AS SPECIFIED
BLRD-50-438/84-06, BLRD-50-439/84-05
NCR 2707
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

Flexible conduit extensions of the following conduit do not meet the thermal criterion for length:

<u>Conduit ID</u>	<u>Size (inches)</u>	<u>Existing Flexible Conduit Extension Length Exposed (inches)</u>	<u>Minimum Specified Extension Length (inches)</u>
1R4-1959-B	1-1/2	25.5	32
1R3-1961-B	1-1/2	27	32
1R3-1962-B	1-1/2	24	32
1R3-1964-B	1-1/2	25	32
1R3-1965-B	1-1/2	21	24
1R3-1341-B	0.75	22.75	24

General construction specification G-40, "Installing Electrical Conduit Systems and Conduit Boxes," revision 5, section 3.2.6.3, "Thermal Movement Consideration," specifies that, where flexible conduit is to be connected to items which are part of a mechanical system designed for thermal movement, it should be used to compensate for any expansion and contraction.

The apparent cause of this deficiency was failure to specify that the thermal movement consideration should be applied to these assemblies.

Interim Progress

TVA's Division of Engineering Design (EN DES) is still in the process of providing all necessary criteria and other pertinent information to allow for the proper installation and inspection of flexible conduit assemblies on mechanical systems designed for thermal movement.