

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

February 7, 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 30303

Dear Mr. O'Reilly:

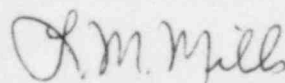
BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - LENGTHS OF FLEX CONDUIT EXTENSIONS
NOT AS SPECIFIED - BLRD-50-438/84-06, BLRD-50-439/84-05 - FIRST INTERIM
REPORT

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. Enclosed is our first interim report. We expect to submit our
next report by August 15, 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

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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)
FIRST 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>
1R4-1959-B	1-1/2	25.5
1R3-1961-B	1-1/2	27
1R3-1962-B	1-1/2	24
1R3-1964-B	1-1/2	25
1R3-1965-B	1-1/2	21
1R3-1341-B	0.75	22.75

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 above conduit assemblies do not meet the thermal criterion for length. The apparent cause of this deficiency was lack of criteria, either in construction specification G-40 or on 5RW0816-R4 series drawings, to specify which assemblies required thermal movement consideration.

Interim Progress

TVA's Division of Engineering Design (EN DES) will provide 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.