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AUTH.NAME AUTHOR AFFILIATION
MILLS,L.M. Tennessee Valley Authority
RECIP.NAME RECIPIENT AFFILIATION
O'REILLY,J.P. Region 2, Atlanta, Office of the Director

SUBJECT: Final deficiency rept re seismic mounting for low voltage switchgear,initially reported on 801208.Investigation of switchgear completed on 810301.Mounting of channel sills to embedded plates not seismically acceptable by 810828.

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400 Chestnut Street Tower II

April 22, 1981

BLRD-50-438/81-02
BLRD-50-439/81-02

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Region II - Suite 3100
101 Marietta Street
Atlanta, Georgia 30303

Dear Mr. O'Reilly:

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 - SEISMIC MOUNTING FOR LOW VOLTAGE SWITCHGEAR - BLRD-50-438/81-02, BLRD 50-439/81-02 - FINAL REPORT

On December 8, 1980, R. W. Wright, NRC-OIE Region II, was informed that the subject nonconformance was determined to be reportable in accordance with 10 CFR 50.55(e) as NCR BN-E-80-15. Since that time related NCR 1319 has been determined to be reportable in accordance with 10 CFR 50.55(e). This was followed by our first interim report dated January 8, 1981. Enclosed is our final report.

If you have any questions concerning this matter, please get in touch with D. L. Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure
cc: Mr. Victor Stello, Jr., Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

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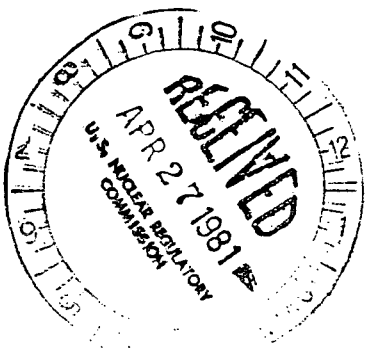

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2
SEISMIC MOUNTING FOR LOW VOLTAGE SWITCHGEAR
BLRD-50-438/81-02, BLRD-50-439/81-02
10 CFR 50.55(e)
FINAL REPORT

Description of Deficiency

The seismic mounting configuration for the installation of the low voltage switchgear was not welded in accordance with design drawings. The equipment installation was affected after issuance of design drawings. The installed equipment was inspected and documented as nondeficienct per TVA Procedures BNP-QCP-3.13, "Equipment Installation," and BNP-QCP-7.5, "Visual Examination of Weld Joints." The subject deficiency was discovered by a TVA Quality Assurance audit. The audit noted the deficiency in the following switchgears:

1EI-ELVS-24-A	2EI-ELVS-24-A
1EI-ELVS-25-A	2EI-ELVS-25-A

Safety Implications

The low voltage switchgear is a focal point of the cable distribution system for the 480V boards. If the switchgear were to fail and simultaneously destroy its connected cabling, the ability of the 460V motors and motor-operated equipment could fail. This situation could degrade the safe operation of the plant.

Corrective Action

In addition to the equipment listed in the audit, an investigation completed March 1, 1981, revealed that low voltage switchgear 1EI-ELVS-28-B, 1EI-ELVS-29-B, 2EI-ELVS-28-B, and 2EI-ELVS-29-B were not welded in accordance with design drawings.

TVA's analysis revealed that the manner in which the low voltage switchgear was mounted was not seismically acceptable. The analysis recommended a method of modification of the mounting that, when implemented, will result in seismically qualified switchgear. The recommended modification of the attachment of the switchgear's channel sills to embedded plates will be completed by August 28, 1981.

In order to prevent a recurrence of a similar nature, the responsible employees have been verbally reprimanded and reinstructed in the proper use of design drawings and weld maps used to locate welds in seismically qualified components.

The construction quality assurance organization will randomly inspect electrical equipment and components in order to determine if there are any other nonconforming conditions which exist because of improper use of weld maps. Any nonconforming condition discovered during this inspection will be dealt with in accordance with established procedures and a nonconformance report written for each deficiency.