

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401  
400 Chestnut Street Tower II

February 27, 1985

BLRD-50-438/84-34

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U.S. Nuclear Regulatory Commission  
Region II

Attn: Dr. J. Nelson Grace, Regional Administrator  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

Dear Dr. Grace:

BELLEFONTE NUCLEAR PLANT UNIT 1 - CONDUIT SUPPORT STIFFENER PLATES NOT  
INSTALLED PER DRAWING - BLRD-50-438/84-34, - THIRD INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector  
P. E. Fredrickson on May 10, 1984 in accordance with 10 CFR 50.55(e) as NCR  
3069. This was followed by our first interim report dated June 4, 1984.  
Subsequently, NCR 3457, which documents a similar condition, was initiated  
and was reported on with NCR 3069 in TVA's second interim report dated  
September 24, 1984. Since that time, two more items, NCR 3454 and NCR  
3684, which document similar conditions, have been initiated. TVA intends  
to report on all these NCRs simultaneously. Enclosed is our third interim  
report. We expect to submit our next report on or about August 5, 1985.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

*D. L. Lumbert*

J. W. Hufham, Manager  
Licensing and Regulations

Enclosure

cc: Mr. James Taylor, Director (Enclosure)  
Office of Inspection and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Records Center (Enclosure)  
Institute of Nuclear Power Operations  
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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNIT 1  
CONDUIT SUPPORT STIFFENER PLATES NOT INSTALLED PER DRAWING  
BLRD-50-438/84-34  
NCRs 3069, 3454, 3457, AND 3684  
10 CFR 50.55(e)  
THIRD INTERIM REPORT

Description of Deficiency

Numerous deficiencies involving electrical conduit support installations which were initially inspected and accepted during the timeframe from 1979 to 1982 have been identified at Bellefonte Nuclear Plant (BLN). Several nonconformance reports (NCRs) were issued by TVA to document the subject deficiencies and are individually identified below.

TVA has determined that the apparent cause of these deficiencies was a lack of knowledge regarding detailed design and construction requirements by personnel performing electrical support installation and inspection activities during the identified timeframe (1979 to 1982).

NCRs 3069, 3454, and 3457

The stiffener plates for conduit supports FF-768-6/31, 768-36/31/117 and 768-36/31/5, respectively, were not installed in accordance with the applicable TVA design drawings.

NCR 3684

Due to the conditions identified by NCRs 3069, 3454, and 3457, TVA performed a reinspection of 15 randomly selected electrical hanger installations which had been initially inspected and accepted during the 1979 to 1982 timeframe. From this reinspection, 4 supports were identified with various deficiencies such as incorrect bolt sizes, inadequate welds, interferences and incorrect mark number of support installed.

Safety Implications

The failure to construct safety-related electrical supports to design requirements could possibly result in a failure of the affected supports during design basis loading conditions. This could adversely affect the safe operations of the plant.

Corrective Action - NCRs 3069, 3454, and 3457

TVA has evaluated the as-built configuration of support FF-768-6/31 and has determined that the support is acceptable for use-as-is. Supports 768-36/31/117 and 768-36/31/5 have been reworked to correct the deficiencies. NCRs 3069, 3454, and 3467 have been closed.

Interim Progress - NCR 3684

TVA is initiating a program to identify and reinspect all electrical hangers that were initially inspected and accepted during the timeframe of 1979 to 1982. All deficiencies which are identified during this reinspection will be documented and corrected. Additionally, ELN quality control procedure (QCP) 3.32, "Raceway Verification," is being revised to include inspection criteria for electrical hangers. The walkdown inspection performed under QCP 3.32 will provide additional assurance that design requirements have been met for all affected electrical hanger installations.