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 50-439 Bellefonte Nuclear Plant, Unit 2, Tennessee Valley Au 05000439  
 AUTH. NAME AUTHOR AFFILIATION  
 MILLS, L.M. Tennessee Valley Authority  
 RECIP. NAME RECIPIENT AFFILIATION

MA/1

SUBJECT: Final deficiency rept re excessive distance between lighting  
 fixture support rods. Cause not stated. Installation drawings  
 modified to show placement of addl supports.

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 TITLE: Construction Deficiency Report (10CFR50.55E)

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50-438

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

August 1, 1980

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 SUPPORTS FOR LIGHTING  
FIXTURES - NCR 1172 - FINAL REPORT

The subject nonconformance was initially reported to NRC-OIE Inspector  
R. W. Wright on April 21, 1980, in accordance with 10 CFR 50.55(e).  
This was followed by our first interim report dated May 21, 1980.  
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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BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2  
SEISMIC SUPPORTS FOR LIGHTING FIXTURES  
NCR 1172  
10 CFR 50.55(e)  
FINAL REPORT

Description of Deficiency

The distance between lighting fixture support rods in the following areas have as much as 96 inches between the 3/8-inch unistrut support rods. TVA drawings limit this distance to 72 inches.

Control Building

EL 610 Corridor, battery rooms C4, C5, C6, C7, C8, C9, and communication room  
EL 629 Auxiliary Instrument Rooms C2 and C5, computer room, and corridor  
EL 658 Spreading Room (upper level)

Auxiliary Building

EL 590 Corridor A5-A10

The length of lighting fixture support rods (3/8-inch unistrut support rods) in the following areas exceed the maximum length of 96 inches allowed by TVA drawings.

Control Building

EL 610 Corridor, battery rooms C4, C5, C6, C7, C8, C9, and communication room - The length of the 3/8-inch rods is 100 to 104 inches.  
EL 629 Auxiliary instrument rooms C2 and C5, computer room, and corridor - Maximum length of 3/8-inch rods is 128 inches.

Safety Implications

Failure of light fixtures to hang in place during and after the SSE could lead to damaging of safety-related equipment. Inadequate supports could allow the lights to fall, possibly damaging equipment required to bring the plant to a safe shutdown condition post-SSE.

Corrective Action

Evaluation of the installed design was performed and necessary modifications were specified to bring the existing installation in line with design requirements for seismic qualification. Since the installations are physically sound except for earthquakes, modifications to the existing installation will consist of the addition of structural tubes and/or auxiliary stainless steel cable as required to protect any equipment located in the area. Installation drawings have been modified to show placement of additional supports.

In the future, installation problems are to be brought to the attention of Engineering Design in a timely manner so that new designs for fixture supports can be evaluated and furnished before proceeding with installation.