

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Creek Tower II

USNRC REGION II
ATLANTA, GEORGIA

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August 4, 1983

WBRD-50-390/83-16

WBRD-50-391/83-15

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:

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2 - OFFSET LEAD-IN GUIDES ON WACHTER
SPENT FUEL CELLS - WBRD-50-390/83-16, WBRD-50-391/83-15 - SECOND INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
L. Watson on March 18, 1983 in accordance with 10 CFR 50.55(e)
as NCR W-115-P. Our first interim report was submitted on April 15, 1983.
Enclosed is our second interim report. We expect to submit our next report
on or about September 23, 1983. We consider 10 CFR Part 21 applicable to
this deficiency.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

D S Kanner

for L. M. Mills, Manager
Nuclear Licensing

Enclosure

cc (Enclosure):

Mr. Richard C. DeYoung, Director
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Records Center
Institute of Nuclear Power Operations
1100 Circle 75 Parkway, Suite 1500
Atlanta, Georgia 30339

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ENCLOSURE

WATTS BAR NUCLEAR PLANT UNITS 1 AND 2
OFFSET LEAD-IN GUIDES ON WACHTER SPENT FUEL CELLS
NCR W-115-P
WBRD-50-390/83-16, WBRD-50-391/83-15
10 CFR 50.55(e)
SECOND INTERIM REPORT

Description of Deficiency

The bottom edge of numerous lead-in guides and the top inner edge of the fuel cell assembly do not meet in a vertical plane. This misalignment could interfere with the entry or exit of a fuel assembly. This condition violates section 3.0.4 of Wachter Associates, Inc. Proposal of the Watts Bar Nuclear Plant High Density Spent Fuel Racks, (dated July 12, 1977) and TVA Specification 3344, both of which are part of TVA's contract with Wachter. Also, some cells have been found to be smaller than the approved contractor's drawings.

Interim Progress

TVA's Division of Engineering Design (EN DES) has issued engineering change notice (ECN) 4043 to revise the Wachter Associates, Inc. drawings and produce TVA drawings to reflect an acceptable configuration for the cell walls and lead-in guides. The cells will be expanded or the lead-in guides compressed as applicable for each fuel cell. The inner edges of each cell and/or lead-in guides will be ground until no overhanging sharp edges exist. All lead-in guide adapters are to be removed and permanent lead-in guides will be welded to the cell walls at the position of the present adapters.

TVA is still evaluating the cells that have been found to be smaller than the approved contractor's drawings.