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SUBJECT: Forwards revised "Bellefonte Nuclear Plant (BLN) Welding Project Reinspection Plan." Rev takes lessons learned from reinspection activities at Watts Bar & incorporates intent of suggestions resulting from insp on 870817-20 at BLN.

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Gentlemen:

In the Matter of the Application of) Docket Nos. 50-438
Tennessee Valley Authority) 50-439

BELLEFONTE NUCLEAR PLANT (BLN) UNITS 1 AND 2 - REVISION TO WELD REINSPECTION PLAN

Reference: TVA letter to J. F. Stolz, NRC, dated November 10, 1986, "Submittal of TVA's Welding Project Reinspection"

This letter is to provide you with a copy of the revised BLN Welding Project Reinspection Plan for your review. This revised plan takes into consideration lessons learned from reinspection activities at Watts Bar Nuclear Plant (WBN) and incorporates the intent of suggestions which resulted from the NRC Weld Team Inspection, August 17-20, 1987, at BLN.

In assessing the welding program at BLN, the Welding Project (WP) determined that BLN has a history of identifying welding-related problems, taking appropriate corrective action in resolving those problems, determining generic applicability, and instituting effective action to prevent recurrence. During the period from 1980 to 1985, over 45,000 welds were reinspected. Eighty-five hundred of these welds were reworked and then reinspected again. Over 6,000 welds while found initially deficient, were found acceptable by engineering evaluation. The actions taken were evaluated by the WP and determined to be appropriate for the problems identified. The reinspection sample selected will furnish additional information for further evaluation of the welding program at BLN.

WBN's welding concerns were considered in the selection of items to be reinspected at BLN. The following matrix identifies the WBN concern, the applicability to BLN, and the WP action being taken to evaluate each concern for BLN.

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WBN Concern

BLN Evaluation

WP Assessment

E1 741.0 Platform
Connections

741 platform type problem has not been identified at BLN. However, 39 representative connections selected by the Division of Nuclear Engineering (DNE) Design Engineers were determined by the Division of Nuclear Quality Assurance and the Division of Nuclear Construction (DNC) to be in compliance with the drawing requirements.

Special group for reinspection is not required since the general reinspection will cover this item.

Adequacy of Radio-
graphic Examination
Film Reading

Rereview of film for over 4,400 piping welds has been conducted in conjunction with transfer of systems from DNC to the operating organization and WBN type problems were not identified.

A large number of piping welds selected for reinspection will have film reread. Therefore, a special group is not required. Reread will be by a Level III who is knowledgeable of the WBN reread effort.

Shop Fabricated
Instrument Panels

BLN safety-related instrument panels were all supplied by outside contractor. Problem does not exist at BLN.

Sufficient other items that were shop fabricated onsite are included in the reinspection sample to determine if BLN site practices are adequate.

Pipe Shear Lug
Welds with Full
Penetration Welds

All pipe shear lugs with full penetration welds were determined to be acceptable by DNE on Nonconformance Report 3180 written as a result of TVA's Quality Bulletin 84-10. An additional hold point for verification of backgouge was added for future lugs attached with full penetration welds.

Reinspection sample includes pipe shear lugs with full penetration welds. Therefore, a special reinspection group is not required.

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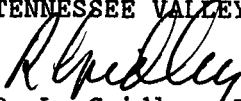
<u>WBN Concern</u>	<u>BLN Evaluation</u>	<u>WP Assessment</u>
Fit Up of Structural Connections	BLN has a history of documented fit up inspections of structural connections from the beginning of construction.	WP reinspection sample is sufficient to determine if program is functioning properly.
Heating Ventilation and Air Conditioning Duct Welds	BLN has inspected duct welds in accordance with drawing requirements.	WP reinspection sample will determine adequacy of BLN inspection.

To prevent the personnel performing the reinspection from having multiple acceptance criteria for weld acceptance, depending on the time of the original inspection, as suggested by the NRC Welding Inspection Team, TVA has chosen to utilize the aggregate of the most restrictive criteria that has been in effect since the beginning of BLN construction.

We understand that after you have become familiar with this material, you would like TVA to make a presentation on this plan to resolve any comments before resuming our efforts. Please let us know when you would like to schedule this meeting. Arrangements may be pursued with W. T. Watters at (205) 574-8821.

Very truly yours,

TENNESSEE VALLEY AUTHORITY


R. L. Gridley, Director
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Enclosure
cc: See page 4

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