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SUBJECT: Final deficiency rept re min separation criteria violated by some control air lines. Initially reported on 931214. Instrument linse defined in attachment will be evaluated, redesigned & reworked as necessary.

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H. Fred McCluskey
Site Vice President, Bellefonte Nuclear Plant

JAN 11 1994

BLRD-50-438/94-01
BLRD-50-439/94-01

10 CFR 50.55(e)

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Gentlemen:

In the Matter of the Application of)
Tennessee Valley Authority)

Docket Nos. 50-438
50-439

**BELLEFONTE NUCLEAR PLANT (BLN) - MINIMUM SEPARATION CRITERIA
VIOLATED BY SOME CONTROL AIR LINES - BLRD-50-438/94-01 AND
BLRD-50-439/94-01 - FINAL REPORT**

The subject deficiency was reported to the NRC Operations Center on
December 14, 1993 in accordance with 10 CFR 50.55(e)(3) as Significant Corrective
Action Report (SCAR) PIRBLNEEB8619R1. Enclosed is TVA's final report on this
subject.

Should there be any questions regarding this information, please telephone
Mike Morrison, Acting BLN Site Licensing Manager, at (205) 574-8057.


H. Fred McCluskey

Enclosures

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11

U.S. Nuclear Regulatory Commission
Page 2

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ENCLOSURE 1
BELLEFONTE NUCLEAR PLANT (BLN) - UNITS 1 AND 2
MINIMUM SEPARATION CRITERIA VIOLATED BY SOME CONTROL AIR LINES
SIGNIFICANT CORRECTIVE ACTION REPORT (SCAR) PIRBLNEEB8619RI
BLRD-50-438/94-01 AND BLRD-50-439/94-01

FINAL REPORT

DESCRIPTION OF DEFICIENCY

Installed control air lines have been identified that do not meet the required minimum separation criteria of 18 inches as defined in design documents. Additionally, "D-F" and "E-G" pairs of train/channel designators were inadvertently omitted from the 18-inch separation or a physical barrier requirement. These lines are identified in the attachment.

SAFETY IMPLICATIONS

A loss of redundancy in safety-related instrument lines could prevent availability of safety-related equipment during an accident.

CAUSE

The instrument lines that do not meet the required minimum separation were installed before the requirements were clearly defined in the design documents. A walkdown was performed soon after the design document was issued to identify and correct the incorrect separation; however, some lines were missed. The reason that some designators were not identified in the design document as requiring the separation is unknown.

CORRECTIVE ACTIONS

The instrument lines defined in the attachment will be evaluated, redesigned, and reworked as necessary. Design documents have been revised to include "D-F" & "E-G" train/channel designators as requiring a minimum separation of 18 inches. These instrument lines will be reviewed and reworked as necessary to bring them into compliance.

Current procedures now identify the correct instrument lines to have a minimum separation of 18 inches. Therefore, procedural controls are in place to preclude recurrence.

These corrective actions will be completed prior to transfer of the final system for each unit.

ENCLOSURE 2
BELLEFONTE NUCLEAR PLANT (BLN) - UNITS 1 AND 2
BLRD-50-438/94-01 AND BLRD-50-439/94-01

COMMITMENTS

The following corrective actions will be completed prior to transfer of the final system for each unit.

- The instrument lines defined in the attachment will be evaluated, redesigned, and reworked as necessary.
- Design documents have been revised to include "D-F" & E-G" train/channel designators as requiring a minimum separation of 18 inches. These instrument lines will be reviewed and reworked as necessary to bring them into compliance.

ATTACHMENT

Instrument Lines that do not meet the minimum separation criteria as defined by design documents:

1CA-LDPA-924-A
1CA-LDPA-926-B
1CA-LFHA-019-A
1CA-LFHA-020-A
1CA-LFHA-021-B
1CA-LFHA-022-B
1CA-LFHA-023-B
0IX-LLPA-044A-A
0IX-LLPA-044B-A
0IX-LLPA-045A-B
0IX-LLPA-045B-B
1IX-LLPA-019A-A
1IX-LLPA-019B-A
1IX-LLPA-020B-B
1IX-LLPA-020Z-B
1IX-LLPA-048A-A
1IX-LLPA-048B-A
1IX-LLPA-099H-B
1IX-LLPA-101D-A
1IX-LLPA-144B-B
1IX-LLPA-144C-B

Train/Channels D-F and E-G should have been required to have the same minimum separation requirement by the design document but were omitted.