

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

DEC 22 1983
December 20, 1983

BLRD-50-438/83-62, HTRD-50-518/83-07
BLRD-50-439/83-55, HTRD-50-520/83-07

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:

BELLEFONTE AND HARTSVILLE NUCLEAR PLANTS UNITS 1 AND 2 - FUEL OIL-LINE
RUPTURE IN TRANSAMERICA DELAVAL, INC., GENERATOR - BLRD-50-438/83-62,
BLRD-50-439/83-55; HTRD-50-518/83-07, HTRD-50-520/83-07 - FIRST INTERIM
REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
P. E. Fredrickson on November 21, 1983 in accordance with 10 CFR 50.55(e)
as NCRs BLN MEB 8303 and HTA MEB 8302. Enclosed is our first interim
report. We expect to submit our next report by April 13, 1984. We consider
10 CFR Part 21 applicable to this deficiency.

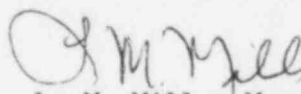
TVA has elected to defer construction activities on Hartsville. Deferral
does not mean that the project will be cancelled but that TVA is minimizing
its expenditures and construction efforts until such time that TVA has
sufficient information to indicate whether the project should be completed
or cancelled. Therefore, we will not be submitting further information on
Hartsville until a final decision is made regarding these projects.

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

Very truly yours,

TENNESSEE VALLEY AUTHORITY

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PDR ADDCK 05000438
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L. M. Mills, Manager
Nuclear Licensing

Enclosure

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

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

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ENCLOSURE

BELLEFONTE AND HARTSVILLE NUCLEAR PLANTS UNITS 1 AND 2
FUEL OIL-LINE RUPTURE IN TRANSAMERICA DELAVAL, INC., GENERATORS
BLRD-50-438/83-62, BLRD-50-439/83-55
HTPD-50-518/83-07, HTRD-50-520/83-07
NCRs BLN MEB 8303 AND HTA MEB 8302
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

A potential problem has been identified concerning the fuel oil line from the engine-mounted fuel transfer pump to the engine fuel oil header on the standby diesel generator in that excessive engine vibration could cause the line to break. The resulting loss of fuel oil would shut the engine down and the subsequent fuel spray could be ignited by the exhaust system. These generators are supplied to TVA by Transamerica Delaval, Inc. (TDI) of Oakland, California. TDI informed TVA of this potential problem in their letter dated September 30, 1983.

Interim Progress

The fuel line from the engine-driven fuel transfer pump to the engine fuel header is to be reviewed for compliance to TDI drawing No. 02-450-16. TVA's Division of Engineering Design will verify that enough supports are used to prevent a fuel oil line from vibrating to the point of breakage. Also, a shield will be installed between the fuel line and the turbocharger exhaust gas inlet to prevent fuel spray from a broken line being ignited by the exhaust system.