

TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

91 SEP 24 09:32

September 21, 1981

BLRD-50-438/81-55

BLRD-50-439/81-57

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 - REACTOR BUILDING HATCH
COVER - BLRD-50-438/81-55, -439/81-57 - FINAL REPORT

The subject deficiency was initially reported to NRC-OIE Inspector
R. V. Crienjak on August 20, 1981, in accordance with 10 CFR
50.55(e) as NCR BLN BLP 8123. Enclosed is our final report. If you
have any questions, please call Dave Lambert at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills

L. M. Mills, Manager
Nuclear Regulation and Safety

Enclosure

cc: Mr. Victor Stello, Director (Enclosure)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

IE27
S
1/1

8109290249 810921
PDR ADOCK 05000438
S PDR

ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNITS 1 AND 2 REACTOR BUILDING HATCH COVER 10 CFR 50.55(e) BLRD-50-438/81-55, -439/81-57 FINAL REPORT

Description of Condition

Potential LOCA pressures were not included in the design of each Reactor Building hatch cover at elevation 646. The weight of the hatch cover, as presently designed, is not sufficient to prevent uplift because of potential differential pressure between Reactor Building floors. The LOCA pressures were not included in the design of the hatch because of a designer oversight.

Safety Implications

If pressure differentials became such that the hatch cover could become a projectile or uplift and fall back through the opening to the 622 floor, safety class equipment could possibly incur damage.

Corrective Action

The hatch cover will be redesigned to be of sufficient weight to prevent uplift during LOCA conditions by August 31, 1982. The redesigned hatch cover will be installed by October 31, 1982.

TVA's review has shown that this is an isolated deficiency which is not common to all hatch cover designs. The deficiency occurred because of designer oversight. The individual involved in the subject deficiency has been reinstructed in TVA design procedures.