TENNESSEE VALLEY AUTHORITY

CHATTANOOGA, TENNESSEE 37401

400 Chestnut Street Tower II

October 15, 1981

BLRD-50-438/81-59

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 UNIT 1 - EXCESSIVE PIPE AND SUPPORT VIBRATION DURING EQUIPMENT OPERATION - BLRD-50-438/81-59 - FIRST INTERIM REPORT

The subject deficiency was initially reported to NRC-OIE Inspector R. V. Crlenjak on September 15, 1981 in accordance with 10 CFR 50.55(e) as NCR 1572. Enclosed is our first interim report. We expect to submit our next report by April 13, 1982.

If you have any questions concerning this matter, please get in touch with R. H. Shell at FTS 857-2581.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

L. M. Mills, Manager
Nuclear Regulation and Safety

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

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ENCLOSURE

BELLEFONTE NUCLEAR PLANT UNIT 1
NONCONFORMANCE REPORT BLN NCR-1572
EXCESSIVE PIPE AND SUPPORT VIBRATION DURING EQUIPMENT OPERATION
BLRD-50-438/81-59
10 CFR 50.55(e)
FIRST INTERIM REPORT

Description of Deficiency

During operation of essential air compressor 1RJ-MCMP-001-A, Control Air System piping and pipe support 1RK-MPHG-0093 vibrated excessively when the compressor was running in the half load condition. Movement was approximately one inch in each direction.

Quality Control Investigation Report QCIR-11,717 was written at the site to track and document the subject deficiency.

Interim Progress

Subsequent inspection of the piping system revealed that a normally closed bypass valve was partially open. After closure of the valve, additional operation and testing of the system did not indicate excessive system vibration.

A revised seismic analysis of the current system configuration has been issued. Following design and installation of new supports resulting from that analysis, the piping system will undergo preoperational testing covering a complete range of operating conditions. Vibration measurement, which is an element of the preoperational testing program, will indicate whether a problem still exists.