



Log # TXX-92520
File # 10110
CP-92-12
908.3
Ref. # 10CFR50.55(e)

October 29, 1992

William J. Cahill, Jr.
Group Vice President

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

SUBJECT: JOHANCHE PEAK STEAM ELECTRIC STATION (CPSES) - UNIT 2
DOCKET NO. 50-446
DEVIATION IN FERRO-RESONANT TRANSFORMER OPERATION
SDAR CP-92-12 (FINAL REPORT)

REF: TU Electric letter logged TXX-92377 from William J. Cahill, Jr.
to the NRC, dated August 14, 1992

Gentlemen:

On June 18, 1992, TU Electric discovered a deviation in several spare ferro-resonant transformers drawn from the warehouse that could cause an unacceptable total harmonic distortion (THD) in the output of the Westinghouse 7.5 kva inverters. The referenced letter to NRC provided the interim report on this subject which stated that the evaluation would be complete by October 30, 1992.

The evaluation is now complete which has determined that the operation and reliability of the above inverters are essentially independent of the magnitude of THD. The deviation was due to a THD measurement of 5.6% which exceeded the criterion in the Westinghouse Equipment Specification for a THD of less than or equal to 5.0% at low inverter loads. It is now expected that an inverter with THD as high as 15% in it's output would continue to

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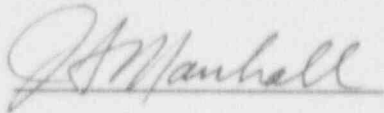
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ensure adequate system performance. Therefore, this deviation is not associated with a substantial safety hazard and is not reportable pursuant to 10CFR50.55(e) or 10CFR21.

Sincerely,

William J. Cahill, Jr.

By: 

J. S. Marshall
Generic Licensing Manager

JMK/JTC/ds

c - Mr. J. L. Milhoan, Region IV
Resident Inspectors, CPSES (2)
Mr. B. E. Holian, NRR