



Log # TXX-88656
File # 10110
908.3
Ref. # 10CFR50.55(e)

William G. Council
Executive Vice President

August 31, 1988

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

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)
DOCKET NOS. 50-445 AND 50-446
EDG VOLTAGE OUTPUT
SDAR: CP-88-033 (INTERIM REPORT)

Gentlemen:

On August 30, 1988, we verbally notified your Mr. H. S. Phillips of a reportable deficiency under the provisions of 10CFR50.55(e) involving the emergency diesel generator (EDG) static exciter voltage regulation circuitry. The required information follows.

Description

On March 11, 1987, the NRC was notified in accordance with 10CFR50 Part 21 by IMO Delaval, Inc., of a potential deficiency with the static exciter voltage regulation reset design for the EDGs. Subsequently, the NRC and TU Electric were notified by letter dated August 17, 1988, that this problem was applicable to CPSES.

IMO Delaval, Inc., has identified a specific problem with the static exciter voltage regulator (SEVR) reset design inherent in any installation utilizing an SEVR circuit which relies on engine speed to reset.

The CPSES EDGs are designed to operate at 450 rpm. Upon initiation of EDG shutdown, the SEVR is tripped and does not reset until the engine speed decreases to 425 rpm. If an emergency start signal is received during the coastdown prior to reaching 425 rpm the engine would accelerate to its synchronous speed of 450 rpm but there would be no generator output, since the exciter would not be energized.

This deficiency is the result of a manufacturer design error.

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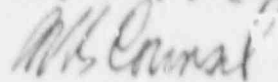
Safety Implications

Had this deficiency remained undetected, the operability of the EDGs under all conditions could not be assured, and therefore could have adversely affected the safety of operations over the life of the plant.

Corrective Action

Our evaluation of the corrective action required to resolve the deficient condition is continuing. We will address the corrective action and corrective action implementation schedule in our next report which will be submitted no later than January 15, 1989.

Very truly yours,



W. G. Council

WJH/mlh

c - Mr. R. D. Martin, Region IV
Resident Inspectors, CPSES (3)