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September 17, 1992

William J. Cahill, Jr.
 Group Vice President

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

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES)
 DOCKET NOS. 50-445 AND 50-446
 GENERAL ELECTRIC CIRCUIT BREAKERS MOUNTING HARDWARE
 INCORRECTLY SUPPLIED & INSTALLED BY THE FACTORY
 SPAR: CP-92-015 (FINAL REPORT)

Gentlemen:

On August 18, 1992, via facsimile, TU Electric notified the NRC of a condition where the vendor (General Electric) supplied Class 1E nuclear grade 200A circuit breakers with incorrectly sized mounting bolts. The structural integrity of the circuit breaker mounting may have been inadequate during a seismic event. TU Electric has determined that this deviation is reportable pursuant to 10CFR50.55(e).

Attached is a written report which satisfies the reporting requirements of 10CFR50.55(e). The report has been formatted in a manner that corresponds to the specific information requested by subparts (i) through (viii) of paragraph 10CFR50.55(e)(8) of the regulation. This is exclusive of that portion of subpart (viii) regarding advice that has been or will be given to other entities outside TU Electric. Such advice would be dependent on the entities' specific use and operating/maintenance history of the subject components.

Sincerely,

William J. Cahill, Jr.

By: D. R. Woodlan
 D. R. Woodlan
 Docket Licensing Manager

JMK/RHS/tg
 Attachment

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

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400 N. Olive Street - L.B. 81 Dallas, Texas 75201

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10CFR50.55(e) REPORTABLE CONDITION INVOLVING
G.E. CIRCUIT BREAKERS MOUNTING HARDWARE
INCORRECTLY SUPPLIED AND INSTALLED
BY THE FACTORY

- (i) Information supplied by:
William J. Cahill, Jr.
RU Elect
400 North Olive Street, L. B. 81
Dallas, Texas 75201
- (ii) The facility is Comanche Peak Steam Electric Station Units 1 and 2. The basic component is General Electric 200A circuit breaker bucket assembly for use in 480V, 7300 Series motor control centers (MCCs).
- (iii) The circuit breaker bucket assemblies were supplied by General Electric.
- (iv) Twelve circuit breaker bucket assemblies were specified for procurement as Class 1E nuclear grade for stock item for possible replacement or new Class 1E applications. The 12 circuit breakers purchased in this lot were premounted with 2 out of 4 mounting bolts undersized. These breakers could have been utilized to supply vital Class 1E loads associated with any safe shutdown system.

If used to mount as individual breaker, this condition would have been self detecting, while torquing the mounting bolts to the appropriate torque values recommended by the vendor. However, if the replacement of the entire assembly with the circuit breaker was required, the mechanical and electrical integrity of circuit breakers during and after a seismic event may have been compromised.
- (v) This defect was identified and documented on corrective action document on June 23, 1992.
- (vi) 12 premounted circuit breakers, each with 2 out of 4 incorrectly sized mounting bolts, were received as stock items.
- (vii) This condition, though considered an isolated case, involved 12 premounted circuit breakers, one or more of which could possibly have been used to supply redundant 480V loads from MCCs, potentially causing a loss of safety function during and/or after a seismic event.

The mounting bolts shall be replaced by proper vendor supplied #1/4-20 screws on all the circuit breakers in this lot assigned for Class 1E applications.

Additionally a sample of 200A General Electric circuit breakers installed in Unit 2 were inspected with no further discrepancies noted.

Corrective actions will be completed by October 18, 1992.

- (viii) Unit 1 was not informed of the defect found in Unit 2 since the sample inspections performed in the Unit 2 did not discover any additional occurrences for previously installed 200A circuit breakers. Therefore, it was inferred that the defective population was limited to the 12 circuit breaker bucket assemblies supplied under a specific Unit 2 purchase order. General Electric also stated in a correspondence that the occurrence was considered to be an isolated case to the specific purchase order.