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 FACIL: 50-275 Diablo Canyon Nuclear Power Plant, Unit 1, Pacific Ga 05000275
 50-323 Diablo Canyon Nuclear Power Plant, Unit 2, Pacific Ga 05000323
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 SHIFFER, J. D. Pacific Gas & Electric Co.
 RECIP. NAME RECIPIENT AFFILIATION
 Document Control Branch (Document Control Desk)

SUBJECT: Informs that severe bolt seizures found in steam generator primary manway covers during maint re removal & installation per 820802 ltr. Contributing factor deemed to be FEL-PRO-N-5000 antiseize compound.

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JAMES D. SHIFFER
VICE PRESIDENT
NUCLEAR POWER GENERATION

January 29, 1988

PG&E Letter No.: DCL-88-027

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

Re: Docket No. 50-275, OL-DPR-80
Docket No. 50-323, OL-DPR-82
Diablo Canyon Units 1 and 2
Degradation of Threaded Fasteners, IEB 82-02

Gentlemen:

In a letter dated August 2, 1982 responding to NRC IE Bulletin 82-02, PG&E stated that the maintenance procedure addressing removal and installation of steam generator manway covers would be revised to specify FEL-PRO-N-5000 fastener lubricant in accordance with manufacturer recommendations. During the Units 1 and 2 first refueling outages, severe bolt seizures were found in the steam generator primary manway covers. The FEL-PRO-N-5000 antiseize compound was considered to be a contributing factor to this condition.

Westinghouse Energy Systems Service Division Data Letter PGE-87-072, dated May 26, 1987, recommended the interim use of FEL-PRO-C5A because it is less likely to cause bolt seizures than other current lubricants as evidenced by its extensive history of successful use on steam generator closures. NRC IE Bulletin 82-02 recommended care in the selection of fastener lubricants and sealants to minimize the risk of stress corrosion cracking from potentially corrosive ions such as chlorine, fluorine, or sulphur as contaminants or molybdenum disulfide as an intentionally added component. FEL-PRO-C5A does not contain the above contaminants; however it is a copper based lubricant. As identified in the Westinghouse letter, there is a concern of increased susceptibility to stress corrosion cracking of the threaded fasteners employing a copper based lubricant if they are exposed to primary coolant. Westinghouse is in the process of performing qualification tests on a series of lubricants which involve long term exposures under load on simulated primary manways. Based on the history of successful use, Westinghouse recommends use of FEL-PRO-C5A on an interim basis in accordance with certain procedure and precautions until tests of lubricants are concluded.

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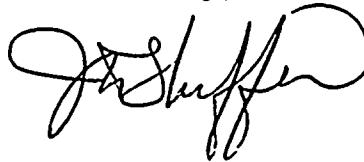


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PG&E's maintenance procedure addressing removal and installation of steam generator manway covers will be revised to specify FEL-PRO-C5A as the antiseize compound used as the fastener lubricant. The procedure will take into consideration the Westinghouse recommendations and precautions.

Kindly acknowledge receipt of this material on the enclosed copy of this letter and return it in the enclosed addressed envelope.

Sincerely,



cc: J. B. Martin
M. M. Mendonca
P. P. Narbut
B. Norton
B. H. Vogler
CPUC
Diablo Distribution.

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