



SACRAMENTO MUNICIPAL UTILITY DISTRICT □ 6201 S Street, Box 15830, Sacramento, California 95813; (916) 452-3211

June 26, 1980



Mr. R. H. Engelken, Director
Region V Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
1990 North California Boulevard
Walnut Creek Plaza, Suite 202
Walnut Creek, California 94936

Re: Operating License DPR-54
Docket No. 50-312
I.E. Bulletin 79-02 Supplement No. 1
I.E. Bulletin 79-02 Rev. 2

Dear Mr. Engelken:

In response to your letters of August 20 and November 8, 1979, which transmitted the subject supplement and revision to I.E. Bulletin 79-02, the Sacramento Municipal Utility District is hereby submitting the requested information.

The District identified and analyzed 204 pipe supports for piping 2-1/2 inch and larger, using the techniques described in previous responses. These supports used 866 concrete expansion anchors. The analysis revealed 69 supports which did not meet the required factors of safety. These supports have been modified, as required by Supplement 1 to the Bulletin, to obtain the specified factors of safety. All the anchors have been tested in accordance with the Bulletin requirements. This testing resulted in 245 anchors with identified deficiencies such as:

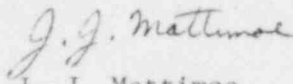
- 1) Torque failure - 82
- 2) Thread engagement - 49
- 3) Angular deviation - 12
- 4) Improperly set - 39
- 5) Improper embedment - 54
- 6) Miscellaneous - 9

There were 47 anchors determined to be inaccessible for testing or repair due to interference from other equipment or high radiation. These anchors are involved on 26 supports, all of which were visually inspected for support configuration, anchor size and spacing. Factors of safety were determined for these supports, assuming that discrepant anchors occurred at the same rate as all anchors which could be tested. All supports with inaccessible anchors now meet the Bulletin requirements.

The District contracted Bechtel Power Corporation (Norwalk) to perform the analyses associated with the subject Bulletin(s). Based upon the analyses, pipe support anchors for piping two inches and smaller did not require testing. Safety factors for this piping ranged from 12 to 100. At or below grade, all supports indicated safety factors of 50 or greater. Above grade, the safety factors ranged from 75 (for 1-1/2 inch piping at +20 foot elevation) to 12 (for 1 inch piping at +60 foot elevation).

In summary, all supports for piping 2-1/2 inches and larger have had all accessible anchors inspected in accordance with the Bulletin requirements. All anchors and supports have been corrected to provide a factor of safety as required by the Bulletin.

Respectfully submitted,



J. J. Mattimoe
Assistant General Manager
and Chief Engineer

JJM:HH:jim