



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION V  
1990 N. CALIFORNIA BOULEVARD  
SUITE 202, WALNUT CREEK PLAZA  
WALNUT CREEK, CALIFORNIA 94596

TIC

November 8, 1979

Docket No. 50-312

Sacramento Municipal Utility District  
P. O. Box 15830  
Sacramento, California 95813

Attention: Mr. John J. Mattimoe  
Assistant General Manager

Gentlemen:

Enclosed is IE Bulletin No. 79-02, Revision 2 which requires action by you with regard to your power reactor facility(ies) with an operating license or a construction permit.

Should you have any questions regarding this Bulletin revision or the actions required by you, please contact this office.

Sincerely,

R. H. Engelken  
Director

Enclosure:  
IE Bulletin No. 79-02  
Revision No. 2

cc w/enclosure:  
R. J. Rodriguez, SMUD  
L. G. Schwieger, SMUD

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UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
OFFICE OF INSPECTION AND ENFORCEMENT  
WASHINGTON, D.C. 20555

SSINS No.: 6820  
Accession No.:  
7908220136

November 8, 1979

IE Bulletin No. 79-02  
(Revision 2)

PIPE SUPPORT BASE PLATE DESIGNS USING CONCRETE EXPANSION ANCHOR BOLTS

Description of Circumstances:

Inspection experiences and the review of licensee response have identified several areas where the Bulletin intent has not been adequately addressed by licensees. Revision No. 2 of the Bulletin is intended to clarify the intent of the Bulletin and establish the NRC positions on minimum factors of safety, anchor bolt preload, and the expected date of completion for certain Bulletin actions.

Since the issuance of IE Bulletin No. 79-02 on March 8, 1979, IE inspection experience and many inquiries from licensees indicate that additional information and clarification is needed. This revision is intended to serve that purpose. None of the requirements of the original Bulletin have been deleted, and the due date for completion of the requested actions (July 6, 1979) has not been changed. The following text supersedes the text of Bulletin No. 79-02. Changes from the original text are identified by R1 and R2 in the margin. The purpose of this revision is to identify acceptable ways of satisfying the Bulletin requirements.

While performing inservice inspections during a March-April 1978 refueling outage at Millstone Unit 1, structural failures of piping supports for safety equipment were observed by the licensee. Subsequent licensee inspections of undamaged supports showed a large percentage of the concrete anchor bolts were not tightened properly.

Deficiency reports, in accordance with 10 CFR 50.55(e), filed by Long Island Lighting Company on Shoreham Unit 1, indicate that design of base plates using rigid plate assumptions has resulted in underestimation of loads on some anchor bolts. Initial investigation indicated that nearly fifty percent of the base plates could not be assumed to behave as rigid plates. In addition, licensee inspection of anchor bolt installations at Shoreham has shown over fifty percent of the bolt installations to be deficient.

Vendor Inspection Audits by NRC at Architect Engineering firms have shown a wide range of design practices and installation procedures which have been employed for the use of concrete expansion anchors. The current trends in the industry are toward more rigorous controls and verification of the installation of the bolts.

The data available on dynamic testing of the fatigue failures can occur at loads substar

R1 and R2 - Identifies those additions or r

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