

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TEXAS 76012



November 8, 1979

Docket No. 50-267

Public Service Company of Colorado
ATTN: Mr. C. K. Millen
Senior Vice President
P. O. Box 840
Denver, Colorado 80201

Gentlemen:

Enclosed is IE Bulletin No. 79-02, Revision No. 2 which requires action by you with regard to your power reactor facility 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,

A handwritten signature in cursive script, appearing to read "Karl V. Seyfrit".

Karl V. Seyfrit
Director

Enclosures:

1. IE Bulletin No. 79-02,
Revision No. 2
2. List of IE Bulletins
Issued in Last Six Months

cc: D. W. Warembourg, Nuclear Production
Manager
Fort St. Vrain Nuclear Station
P. O. Box 368
Platteville, Colorado 80651

L. Brey, Manager, Quality Assurance

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

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IE Bulletin No. 79-02
Revision 2
Date: November 8, 1979
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PIPE SUPPORT BASE PLATE DESIGNS USING CONCRETE EXPANSION ANCHOR BOLTS

Description of Circumstances:

Inspection experiences and the review of licensee response have identified several R2 areas where the Bulletin intent has not been adequately addressed by licensees. R2
Revision No. 2 of the Bulletin is intended to clarify the intent of the Bulletin R2
and establish the NRC positions on minimum factors of safety, anchor bolt preload, R2
and the expected date of completion for certain Bulletin actions. R2

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

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.

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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 audits have shown that the focus is toward more rigorous controls and procedures for anchor bolt installations.

The data available on dynamic testing of anchor bolts indicates that fatigue failures can occur at loads

R1 and R2 - Identifies those additional

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