



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
631 PARK AVENUE  
KING OF PRUSSIA, PENNSYLVANIA 19406

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Docket Nos. 50-277  
50-278

Philadelphia Electric Company  
ATTN: Mr. S. L. Daltroff  
Vice President  
Electric Production  
2301 Market Street  
Philadelphia, Pennsylvania 19101

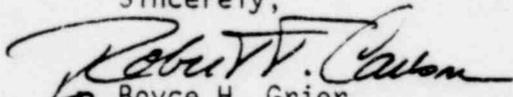
NOV 08 1979

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 questions regarding this Bulletin or the actions required of you, please contact this office.

Sincerely,

  
for Boyce H. Grier  
Director

Enclosures:

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

CONTACT: L. E. Tripp  
(215-337-5282)

cc w/encls:

W. T. Ullrich, Station Superintendent  
Troy B. Conner, Jr., Esquire  
Eugene J. Bradley, Esquire  
Raymond L. Hovis, Esquire  
Michael J. Scibinico, II, Assistant Attorney General

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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  
Page 1 of 8

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 purpose R1  
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.

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 procedures for anchor bolt installations.

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

R1 and R2 - Identifies those additions

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DUPLICATE DOCUMENT

Entire document previously  
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