



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA ST., N.W., SUITE 3100
ATLANTA, GEORGIA 30303

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In Reply Refer To:
RII:JPO
50-348
50-364


Alabama Power Company
Attn: F. L. Clayton, Jr.
Senior Vice President
Post Office Box 2641
Birmingham, Alabama 35291

Gentlemen:

Enclosed is IE Bulletin No. 79-02, Revision No. 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,


James P. O'Reilly
Director

Enclosure:
IE Bulletin No. 79-02,
Revision No. 2 w/encls.

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Alabama Power Company

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cc w/encl:

A. R. Barton
Executive Vice President
Post Office Box 2641
Birmingham, Alabama 35291

J. T. Young
Vice President-Production
Post Office Box 2641
Birmingham, Alabama 35291

C. Biddinger, Jr.
Manager-Corporate Quality Assurance
Post Office Box 2641
Birmingham, Alabama 35291

H. O. Thrash
Manager-Nuclear Generation
Post Office Box 2641
Birmingham, Alabama 35291

H. G. Hairston, III
Plant Manager
Drawer 470
Ashford, Alabama 36312

R. E. Hollands, Jr.
QA Supervisor
Post Office Box U
Ashford, Alabama 36312

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

SSINS No.: 6820
Accession No.:
7908220136

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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 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 and R2 in the margin. The R1
purpose of this revision is to identify acceptable ways of satisfying the R1
Bulletin 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 v bolts.

The data available on dynamic testing of fatigue failures can occur at loads sub- cities due to material imperfections or

R1 and R2 - Identifies those additions

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No. of pages: 11