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

NOV 16 1979

In Reply Refer To:

RIL:JPO

50-488, 50-489

50-490, 50-491

50-492, 50-493

Duke Power Company  
Attn: L. C. Dail, Vice President  
Design Engineering  
Post Office Box 33189  
Charlotte, North Carolina 28242

Gentlemen:

The enclosed IE Information Notice No. 79-28 provides information on the overloading of structural elements due to pipe support loads.

Sincerely,

James P. O'Reilly  
Director

Enclosures:

1. IE Information Notice No. 79-28
2. List of IE Information Notices  
Issued in the Last Six Months

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Duke Power Company

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cc w/encl:

J. T. Moore, Project Manager

Post Office Box 422

Gaffney, South Carolina 29340

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

November 16, 1979

IE Information Notice No. 79-28

OVERLOADING OF STRUCTURAL ELEMENTS DUE TO PIPE SUPPORT LOADS

Description of Circumstances:

Recently, the NRC was informed that, in the course of the inspections pursuant to IE Bulletin No. 79-02 and 79-14 by the Portland General Electric Co. (PGE) at the Trojan Nuclear Plant, some walls were found which did not have adequate structural strength to sustain the required support reactions. Bechtel Corporation was the Architect Engineer for the plant. These structural inadequacies were reported to be attributable to two deficiencies:

- 1) Apparent lack of a final check of certain pipe support locations and reactions to ensure that the supporting structural elements possessed adequate structural integrity to sustain the required loads.
- 2) Inadequate design criteria for the reactions from supports anchored into the face of concrete block walls; e.g., relying on the combined strength of double concrete block walls without positive connection between the two walls by means other than the bond provided by a layer of grout between them.

The NRC is currently pursuing these issues in detail for the Trojan Nuclear Plant to determine the extent of these deficiencies and the generic implications for other Bechtel facilities.

This Information Notice is provided as an early notification of a possible significant matter. It is expected that recipients will review the information for possible applicability to their facilities and the actions being performed under IE Bulletin No. 79-02. Specific action is being requested relating to the adequacy of attachments to concrete block walls under IE Bulletin No. 79-02, Revision 2, item 5.c. No specific actions are requested in response to this Information Notice. If NRC evaluations so indicate, further licensee actions may be requested or required. If you have any questions regarding this matter, please contact the Director of the appropriate NRC Regional Office.

No written response to this IE Information Notice is required.

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LISTING OF IE INFORMATION NOTICES  
ISSUED IN THE LAST SIX MONTHS

Information Notice No.	Subject	Date Issued	Issued To
79-28	Overloading of Structural Elements Due to Pipe Support Loads	11/16/79	All power reactor facilities holding Ols and CPs
79-27	Steam Generator Tube Ruptures at Two PWR Plants	11/16/79	All power reactor facilities holding Ols and CPs
79-26	Breach of Containment Integrity	11/5/79	All power reactor facilities holding Ols and CPs
79-25	Reactor Trips at Turkey Point Units 3 and 4	10/1/79	All power reactor facilities holding Ols and CPs
79-24	Overpressurization of Containment of a PWR Plant After a Main Steam Line Break	10/1/79	All power reactor facilities holding Ols and CPs
79-23	Emergency Diesel Generator Lube Oil Coolers	9/26/79	All Holders of CPs and Ols
79-22	Qualification of Control Systems	9/17/79 9/14/79	All Holders of CPs All Holders of Ols
79-21	Transportation and Commercial Burial of Radioactive Materials	9/11/79	All Licensees as Supplemental Information to IE Bulletin Nos. 79-19 & 79-20
79-20 (Rev. 1)	NRC Enforcement Policy NRC Licensed Individuals	9/7/79	All Holders of Reactor Ols and CPs and Production Licensees with Licensed Operators
79-20	NRC Enforcement Policy NRC Licensed Individuals	8/14/79	All Holders of Reactor Ols and CPs and Production Licensees with Licensed Operators

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LISTING OF INFORMATION NOTICES  
ISSUED IN THE LAST SIX MONTHS

Information Notice No.	Subject	Date Issued	Issued To
79-19 (Correction - Enclosure)	Pipe Cracks in Stagnant Borated Water Systems at PWR Plants	7/18/79	All Holders of Reactor OLs and CPs
79-19	Pipe Cracks In Stagnant Borated Water Systems At PWR Plants	7/17/79	All Holders of Reactor OLs and CPs
79-18	Skylab Reentry	7/6/79	All Holders of Reactor OLs
79-17	Source Holder Assembly Damage Damage From Misfit Between Assembly and Reactor Upper Grid Plate	6/20/79	All Holders of Reactor OLs and CPs
79-16	Nuclear Incident at Three Mile Island	6/22/79	All Research Reactors and Test Reactors with OLs
79-15	Deficient Procedures	6/7/79	All Holders of Reactor OLs and CPs
79-14	NRC Position of Electrical Cable Support Systems	6/11/79	All Power Reactor Facilities with a CP
79-12A	Attempted Damage to New Fuel Assemblies	11/9/79	All Fuel Facilities, Research Reactors, and OLs and CPs

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