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 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana M 05000316
 AUTH. NAME AUTHOR AFFILIATION
 GRANT, G. E. Region 3 (Post 820201)
 RECIP. NAME RECIPIENT AFFILIATION
 FITZPATRICK, E. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele

SUBJECT: Forwards insp repts 50-315/93-12 & 50-316/93-12 on
 930817-0928 & notice of violation. Expresses concern about
 numerous deficiencies identified w/feedwater control sys
 temporary mod 2-93-015.

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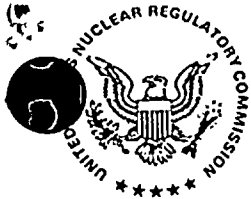
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
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NOV 24 1993

Docket No. 50-315
Docket No. 50-316

Indiana Michigan Power Company
ATTN: Mr. E. E. Fitzpatrick
Vice President
1 Riverside Plaza
Columbus, OH 43216

Dear Mr. Fitzpatrick:

This refers to the system based instrumentation and control inspection (SBICI) conducted by Mr. Z. Falevits and others of this office on August 17 through September 28, 1993. The inspection included a review of activities authorized for your D. C. Cook Nuclear Power Plant, Units 1 and 2. This inspection focused on the design and configuration of selected instrumentation and control systems and components. We discussed our inspection findings with Mr. Blind and others of your staff at the conclusion of the inspection on September 28, 1993.

Areas examined during the inspection are identified in the report. The team assessed the design, implementation, and engineering/technical support relative to selected instrumentation and control (I&C) systems. The inspectors selectively reviewed the setpoint program, design calculations, relevant procedures, representative records, installed equipment, and interviewed engineering and technical support staff.

The team concluded the design and operation of the I&C systems examined were generally acceptable. During the inspection strengths were identified in the engineering staff experience level, the guidance provided by Instrument Loop Setpoint Methodology Guide, and the measuring and test equipment program. However, in addition to the issues identified in the attached Notice of Violation, weaknesses were identified in I&C training for corporate engineers and I&C component training for plant engineers.

We are particularly concerned about the numerous deficiencies we identified with your feedwater control system temporary modification 2-93-015. For example, the engineer inappropriately referenced an unrelated system's drawing to identify the I/I converter terminations rather than referring to the specific I/I converter's vendor manual. In another case, by failing to consult the vendor manual, the engineer neglected to include a required resistor in the I/I circuit. Your independent modification review failed to identify the errors. This particular I/I converter failed in service and caused a reactor trip. The errors and omissions identified with this temporary modification are unacceptable in a modification program developed to assure the facility's safe operation. Because of this issue's significance and generic implications, you are requested to address the issue in addition to your response to the attached Notice of Violation.

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PDR ADDCK 05000315
Q PDR

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May 4 1993

During this inspection, certain of your activities were in violation of NRC requirements, as specified in the enclosed Notice. The first violation is of concern because omissions, errors and discrepancies in setpoint calculations and design drawings could affect equipment operability or safe shutdown. The concern with the second violation is the safety impact of engineers taking an overly restrictive interpretation of the Updated Final Safety Analysis Report in determining whether a safety evaluation is necessary.

You are required to respond to this letter and should follow the instructions specified in the enclosed Notice when preparing your response. In your response, you should document the specific actions taken and any additional actions you plan to prevent recurrence. After reviewing your response to this Notice, including your proposed corrective actions and the results of future inspections, the NRC will determine whether further NRC enforcement action is necessary to ensure compliance with NRC regulatory requirements. We also request that you respond in writing to all open and unresolved items noted in this report.

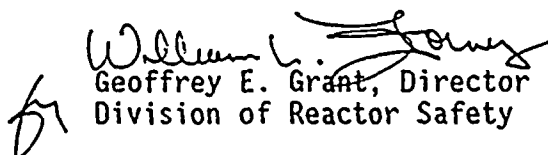
We understand that you are evaluating your organization's ability to provide timely information during NRC inspections. We are interested in your findings because of the issues direct effect on inspection efficiency and effectiveness. We therefore request that when your evaluation is complete that we meet to discuss your conclusions.

In accordance with 10 CFR 2.790 of the Commission's regulations, a copy of this letter, its enclosures, and your response to this letter will be placed in the NRC Public Document Room.

The responses directed by this letter and the accompanying Notice are not subject to the clearance procedures of the Office of Management and Budget as required by the Paperwork Reduction Act of 1980, PL 96-511.

We will gladly discuss any questions you have concerning this inspection.

Sincerely,


Geoffrey E. Grant, Director
Division of Reactor Safety

Enclosures:

1. Notice of Violation
2. Inspection Reports
No. 50-315/93012(DRS);
No. 50-316/93012(DRS)

Appendix A - Personnel Contacted

See Attached Distribution

NOV 24 1993

Distribution

cc w/enclosures:

A. A. Blind, Plant Manager

OC/LFDCB

Resident Inspector, RIII

James R. Padgett, Michigan

Public Service Commission

EIS Coordinator, USEPA,

Region V Office

Michigan Department of

Public Health

D. C. Cook LPM, NRR

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