

INDIANA & MICHIGAN ELECTRIC COMPANY

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February 21, 1986
AEP:NRC:0974

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
NRC Report Nos. 50-315/85040 (DRS) and 50-316/85040 (DRS)

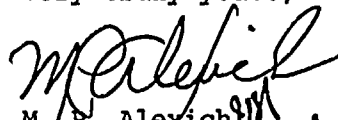
Mr. James G. Keppler
U.S. Nuclear Regulatory Commission
Region III
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Keppler:

This letter is in response to Mr. J. A. Hind's letter dated January 22, 1986, which forwarded the subject Inspection Reports of the routine safety inspection conducted by your staff at the Donald C. Cook Nuclear Plant during the period December 9-12, 1985. The Notice of Violation attached to Mr. Hind's letter identified one violation of Technical Specification 6.8.1a. In addition, one open item was identified in Section 7.a of the report. The responses to this violation and the open item are addressed in the attachment to this letter.

This document has been prepared following Corporate procedures which incorporate a reasonable set of controls to insure its accuracy and completeness prior to signature by the undersigned.

Very truly yours,


M. P. Alexich
Vice President 2/21/86

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Attachments

cc: John E. Dolan
W. G. Smith, Jr. - Bridgman
R. C. Callen
G. Bruchmann
G. Charnoff
NRC Resident Inspector - Bridgman

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1. Introduction

The purpose of this study is to investigate the effects of various factors on the growth of the plant species under study. The study was conducted in a controlled environment over a period of six months.

The following factors were examined:

- Light intensity
- Water availability
- Soil pH
- Temperature

Results

The results of the study show that light intensity has a significant positive effect on the growth of the plant species. Higher light levels resulted in faster growth rates and larger plant sizes. Water availability also had a positive effect, with plants receiving more water showing improved growth. Soil pH and temperature had less pronounced effects on growth.

These findings suggest that light and water are the most critical factors for the growth of this plant species. Further research is needed to determine the optimal levels for each factor.

Conclusion

The study concludes that light intensity and water availability are the primary factors influencing the growth of the plant species. The results provide valuable information for the cultivation of this species in controlled environments.

I.E. INSPECTION REPORT

50-315/85040; 50-316/85040

NRC VIOLATION

"Unit 1 and Unit 2 Technical Specification 6.8.1a states that written procedures shall be established, implemented and maintained covering among other things, the applicable procedures recommended in Appendix 'A' of Regulatory Guide 1.33 November, 1972.

"This requirement is implemented in procedure 12 THP 6020 LAB.044, 'Laboratory Quality Assurance,' (Revision 6, September 12, 1985), that states in part (Section 12.1): 'A program to assure the reliability of procedural accuracy and individual technician technique, will be routinely conducted. Each relevant procedure will be checked at least quarterly with "unknowns."'

"Contrary to the above requirements, the licensee has not fully implemented this procedure in that:

1. The licensee failed to provide 'unknown' samples to check the procedural accuracy in the determination of boron concentrations in reactor systems.
2. Some technicians have not been checked for performance to assure individual technician technique."

RESPONSE TO ITEM NO. 1CORRECTIVE ACTION TAKEN AND RESULTS ACHIEVED

Boron unknowns were prepared and analyzed to check procedural accuracy. This was completed on January 23, 1986. The results were reviewed and the procedure was determined to be capable of providing accurate reactor coolant boron samples.

CORRECTIVE ACTION TO BE TAKEN TO AVOID FURTHER VIOLATIONS

Boron unknowns are scheduled to be completed on at least a quarterly basis.

DATE WHEN FULL COMPLIANCE WAS ACHIEVED

Full compliance was achieved on January 23, 1986, when the above boron analysis was completed and scheduled to be performed periodically.



RESPONSE TO ITEM NO. 2CORRECTIVE ACTION TAKEN AND RESULTS ACHIEVED

Technicians will be checked for proper performance and technique during the routine supervisors' technician observation time. This observation will monitor and specifically address adherence to procedures and technique. In addition, technicians are further checked during on-the-job training, "unknown" analysis, and the routine analysis of standards.

CORRECTIVE ACTION TO BE TAKEN TO AVOID FURTHER VIOLATION

(See above)

DATE WHEN FULL COMPLIANCE WAS ACHIEVED

Full compliance was achieved on January 1, 1986, when the supervisors were asked to take particular note, during technician observation time, to analysis techniques.

NRC OPEN ITEM 50-315/85040-03; 50-316/85040-03

"The inspectors reviewed the QA/QC programs in the chemistry laboratory based on Procedure 12 THP 6020.LAB.044, "Laboratory Quality Control," Revision 6, September 12, 1985. This revision, which improves the descriptions and documentation of the laboratory QA practices, was in response to a 1984 Quality Assurance Department Audit QA-84-20. This procedure is specific in some areas in its purview, such as control of chemicals and reagents, calibration of instruments, and maintenance of deionized water, but it is fairly general with respect to control of analytical methods. It does not specify the use of control charts, nor the handling and trending of data. Control charts are not used and the data are not trended regularly. However, the laboratory maintains for each instrument a log book that contains information useful for quality control such as calibration, maintenance and analysis data. The Plant Chemistry Supervisor stated that the plant also plans to initiate the use of control charts for nonradiological analyses and that an implementation date would be forwarded with the response to the report (Open item 50-315/85040-03; 50-316/85040-03)."

RESPONSE TO NRC OPEN ITEM 50-315/85040-03; 50-316/85040-03

Control charts for trending non-radiological data were implemented on January 21, 1986.

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