

# ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

## REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 AUTH.NAME AUTHOR AFFILIATION  
 CARTEAUX,P.F. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele  
 RECIP.NAME RECIPIENT AFFILIATION  
 PHILLIPS,M.P. Document Control Branch (Document Control Desk)

SUBJECT: Submits approved matls for use in developing & administering  
 upcoming NRC SRO simulator exam.Brief summary of contents of  
 boxes provided in Attachment A for convenience.

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Cook Nuclear Plant  
Training Center  
P.O. Box 458  
Bridgman, MI 49106  
616 465 5901



December 22, 1993

Donald C. Cook Nuclear Plant Units 1 & 2  
Docket Nos. 50-315 and 50-316  
License Nos. DPR-58 and DPR-74  
SUBJECT: SRO INITIAL LICENSE EXAMINATION  
Reference Materials

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Attention: M. P. Phillips

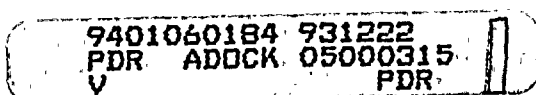
Dear Mr. Phillips:

This letter transmits one set of approved (where appropriate) Cook Plant reference materials for use in developing and administering our upcoming NRC SRO Simulator examination. The set of materials includes all of the items requested by Doug Shepard, NRC Region III, during a telephone conversation with Russell Scott, Replacement Training Program Administrator for Cook. Accompanying this letter are four (4) boxes containing these materials.

For your convenience a brief summary of the contents of these boxes is provided in Attachment A.

The Cook Plant Simulator has undergone significant changes since the last NRC examination. One of these changes involves the replacement of Foxboro Controls with Taylor Controllers. These new controllers perform the same function as the Foxboro unit they replaced. However, Controller Malfunctions may not function as described in the Malfunction Cause and Effects document. Please contact Tim Garrison (616) 466-3300 extension 3004 if you have specific questions about these Malfunctions.

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1. The first part of the document is a letter from the President of the United States to the Congress, dated January 3, 1862. It is a very important document, as it contains the President's annual message to Congress. The letter is written in a very formal and dignified style, and it is one of the most important documents in the history of the United States.

2. The second part of the document is a letter from the President of the United States to the Congress, dated January 3, 1862. It is a very important document, as it contains the President's annual message to Congress. The letter is written in a very formal and dignified style, and it is one of the most important documents in the history of the United States.

If you have any questions regarding this submittal or require additional materials, please contact Mr. Russell Scott at (616) 466-3300 extension 3109.

Additionally per the request of Mr. Clyde Osterholtz, we have included a copy of the governing procedure for the Licensed Operator Requalification TAM 3.03. Questions relating to the Requalification Program should be directed to Mr. Bill Davidson at (616) 466-3300 extension 3110.

Sincerely, .



P. F. Carteaux  
Training Superintendent

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Enclosure

c: A. A. Blind  
T. E. Murley  
J. A. Stubblefield  
R. T. Scott  
J. Isom, Senior NRC Resident Inspector, Cook Nuclear Plant

THE UNIVERSITY OF CHICAGO  
DEPARTMENT OF CHEMISTRY

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## SUMMARY OF CONTENTS

### Cook Plant Reference Materials in Support of January 28, 1994 USNRC Examination

1. **Complete Procedure Index**
  - ♦ One book is provided with all procedure indexes.
2. **Integrated Plant Procedures (unit 2 only)**
  - ♦ Operations Head Procedures (OHPs)
  - ♦ Normal OHP 4021 Series
3. **Emergency and Abnormal Procedures (unit 2 only)**
  - ♦ Operations Head Procedures (OHPs)
  - ♦ Abnormal OHP 4022 Series
  - ♦ Emergency OHP 4023 Series
4. **Annunciator/Alarm Procedures (unit 2 only)**
  - ♦ Annunciator - OHP 4024 Series
5. **Emergency Plan Implementing Procedure**
  - ♦ Plant Manager Procedure PMP 2080.EPP Series.
6. **Technical Specifications**
  - ♦ Unit 2 Technical Specifications and Clarifications

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**7. Piping and Instrument Diagrams**

- ♦ This includes electrical one-line diagrams for 4160, 600, and 120 Volt AC and 250 Volt DC.
- ♦ All flow PID Diagrams (5100 Series Drawings).
- ♦ Electrical One Line Diagrams (12000 including 4160, 600, and 120V AC and 250 V DC Series.)
- ♦ Logic/Functional Diagrams covering all major instrument and control systems (98500 Series Drawings.)

**8. Technical Data Book**

- ♦ The enclosed Technical Data Book does not have a controlled set of precautions, limitations, and setpoints. This information is contained in individual plant and systems operating procedures as necessary.

**9. Simulator References**

- ♦ Listing of pre-programmed initial conditions.
- ♦ Malfunction cause and effect which includes an explanation of the ability to vary the severity of a particular malfunction.
- ♦ Description of local operations and failure capability of instruments and components.
- ♦ Differences between the simulator and Unit #2 control room.

**10. Additional Materials Required by Examinee**

- ♦ TAM 3.03, Licensed Operator Requalification Program

1. *Chlorophyll a* and *Chlorophyll b* were determined using a spectrophotometer (Shimadzu UV-1601) at 663 nm and 646 nm, respectively. The concentrations were calculated using the following equations:  $Chl\ a\ (mg\ L^{-1}) = 12.7 \times OD_{663}$  and  $Chl\ b\ (mg\ L^{-1}) = 22.9 \times OD_{646}$ .

Number of hauls	<i>P. setiferus</i> (%)	<i>P. setiferus</i> + <i>P. setiferus</i> + <i>P. setiferus</i> (%)
1	100	0
2	80	20
3	60	40
4	40	60
5	20	80
6	10	90
7	10	90
8	10	90
9	10	90
10	10	90