

ACCELERATED DISTRIBUTION DEMONSTRATION SYSTEM

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ACCESSION NBR: 8809080369 DOC. DATE: 88/09/02 NOTARIZED: NO DOCKET #
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315
 AUTH. NAME AUTHOR AFFILIATION
 HODGE, W.M. Indiana Michigan Power Co. (formerly Indiana & Michigan Ele
 SMITH, W.G. Midwest Electric Cooperative
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 88-006-00: on 880803, isolation of CO2 fire protection
 sys, w/o compensatory action due to personnel error. W/8 ltr.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 5
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

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	PD3-1 LA	1 1	PD3-1 PD	1 1
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	ACRS WYLIE	1 1	AEOD/DOA	1 1
	AEOD/DSP/NAS	1 1	AEOD/DSP/ROAB	2 2
	AEOD/DSP/TPAB	1 1	ARM/DCTS/DAB	1 1
	DEDRO	1 1	NRR/DEST/ADS 7E	1 0
	NRR/DEST/CEB 8H	1 1	NRR/DEST/ESB 8D	1 1
	NRR/DEST/ICSB 7	1 1	NRR/DEST/MEB 9H	1 1
	NRR/DEST/MTB 9H	1 1	NRR/DEST/PSB 8D	1 1
	NRR/DEST/RSB 8E	1 1	NRR/DEST/SGB 8D	1 1
	NRR/DLPQ/HFB 10	1 1	NRR/DLPQ/QAB 10	1 1
	NRR/DOEA/EAB 11	1 1	NRR/DREP/RAB 10	1 1
	NRR/DREP/RPB 10	2 2	NRR/DRIS/SIB 9A	1 1
	NUDOCS-ABSTRACT	1 1	<u>REG FILE</u> 02	1 1
	RES TELFORD, J	1 1	RES/DSIR DEPY	1 1
	RES/DSIR/EIB	1 1	RGN3 FILE 01	1 1
EXTERNAL:	EG&G WILLIAMS, S	4 4	FORD BLDG HOY, A	1 1
	H ST LOBBY WARD	1 1	LPDR	1 1
	NRC PDR	1 1	NSIC HARRIS, J	1 1
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LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) **D. C. Cook Nuclear Plant - Unit 1** DOCKET NUMBER (2) **0 5 0 0 0 3 1 5** PAGE (3) **1 OF 0 4**

TITLE (4) **Isolation of CO2 Fire Protection System, Without Compensatory Action Due to Personnel Error**

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
08	03	88	88	006	00	09	02	88			050000
											050000

OPERATING MODE (9) **1**

POWER LEVEL (10) **0, 9, 0**

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(c)	<input type="checkbox"/> 60.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 60.38(c)(1)	<input type="checkbox"/> 60.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)
<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 60.38(c)(2)	<input type="checkbox"/> 60.73(a)(2)(vi)	<input type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 366A)
<input type="checkbox"/> 20.406(a)(1)(iii)	<input checked="" type="checkbox"/> 60.73(a)(2)(i)	<input type="checkbox"/> 60.73(a)(2)(vii)(A)	
<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 60.73(a)(2)(ii)	<input type="checkbox"/> 60.73(a)(2)(vii)(B)	
<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 60.73(a)(2)(iii)	<input type="checkbox"/> 60.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME **W. M. Hodge**
Security Manager

TELEPHONE NUMBER **6, 1, 6 4, 6, 5, - 5, 9, 0, 1**

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE) NO

EXPECTED SUBMISSION DATE (15)

MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On August 3, 1988 during isolation/normalization of the Cardox CO2 Fire Protection System for the 4kv Switchgear Cable Vault, personnel error resulted in the isolation of the fire protection system, for a period of 50 minutes, without compensatory action as required by Technical Specification 3.7.9.3, action a.

It has been concluded that in the unlikely event of a fire, personnel would have been promptly aware of its presence and been able to control and extinguish the fire without significant propagation or equipment damage.

To prevent recurrence appropriate administrative actions were taken concerning the individuals involved.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

Conditions Prior To Occurrence

Unit 1 operating at 90 percent reactor thermal power.

Description of Event

On August 3, 1988, during isolation/normalization of the cardox C02 fire protection system (EIIS/KQ) for the 4kv switchgear cable vault, personnel error resulted in the isolation of the fire protection system, for a period of 50 minutes, without compensatory measures as required by Technical Specification 3.7.9.3 action a.

The sequence of events were as follows. At approximately 0745 hours a plant security officer was dispatched to isolate the Cardox C02 system for the 4kv switchgear room area to facilitate routine maintenance activities. [NOTE - This isolation is normally accomplished by: 1) isolating the master "normal/isolation" switch (EIIS/KQ-HS) for the entire 4kv area; 2) initiating fire watch patrols at a frequency of once every 30 minutes; and 3) logging the isolation of involved switches on the "Cardox Activity Log"]. At 0747 hours, the security officer attempted to isolate the master switch but noted it was inoperable. This required the security officer to isolate 4 individual switches (EIIS/KQ-HS), three switches located adjacent to the master switch outside the 4kv entrance, and one switch inside the 4kv area, at the entrance to the cable vault. Following the isolation, the security officer logged "Unit 1 4kv - 4 switches", on the Cardox Switch Activity Log. While the proper switches were isolated, and compensatory fire watch coverage initiated, the security officer violated Security Post Order SP0.016 (Cardox Switch Control) in that four entries should have been logged on the tracking sheet to correspond to the four switches that were repositioned for the isolation of the area.

At 0828 hours, following completion of Maintenance activities in the area, security was requested to normalize the Cardox Systems. Since Security post rotations had taken place a different security officer responded to the request. Upon arrival at the 4kv switchgear room the second officer referred to the Cardox switch tracking sheet to determine which switches had been isolated. The officer noted one entry ("Unit 1 4kv - 4 switches"), and normalized three switches located outside the 4kv area, adjacent to the master switch. The officer failed to enter the 4kv area to normalize the switchgear cable vault cardox switch, and failed to recognize he had only normalized three switches. Fire watch coverage was discontinued at this time (0828 Hrs).

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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TEXT (If more space is required, use additional NRC Form 366A's) (17)

At 0918 hours, the same second security officer responded to an unrelated request to reisolate the 4kv area. When the officer reported the isolation to the control room, he was reminded to isolate the switch inside the 4kv area by control room personnel. At this time the security officer discovered the deficiency and firewatch coverage was immediately reestablished. The switchgear cable vault area Cardox System had been isolated from 0828 hours to 0918 hours (50 minutes), without compensatory fire watch coverage.

Cause Of The Event

This event was the result of 2 personnel errors involving the failure to properly comply with the approved procedure: 1) The security officer initially isolating the Cardox System for entry into the 4kv area failed to properly log the isolation of each individual area switch turned (Security Post Order SP0.016 requires each switch turned to be logged separately on the switch activity log; the security officer made one entry and noted that four switches had been turned); and, 2) the security officer normalizing the Cardox Systems referenced the switch activity log and properly read the entry as four switches, however only repositioned (normalizing) three switches. The security officer normalizing the Cardox Systems erroneously counted the switches he had repositioned.

Analysis Of The Event

The isolation of the switchgear cable vault Cardox System without compensatory fire watch coverage, was in violation of Technical Specification 3.7.9.3 action a, and is reportable under 10 CFR 50.73 (a) (2) (i) (B).

It has been concluded that in the unlikely event of a fire, personnel would have been promptly aware of its presence and been able to control and extinguish the fire without significant propagation or equipment damage. This conclusion is based on the following: 1) the relatively low fixed combustible load within the area involved (33,552 BTU's per square foot for a fire duration of less than 30 minutes); 2) the physical and administrative limits on the introduction of transient combustibles (only a negligible amount of combustibles were present in the involved area for the duration of the event); 3) operable early warning fire detection systems (consisting of both ionization and infrared detectors), and 4) the existence of a trained on-shift fire brigade.

Based on the above, this event is not considered to have created any significant safety concern and did not constitute an unreviewed safety question as defined in 10 CFR 50.59, nor did it create a significant hazard to the health and safety of the general public.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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TIDBT (If more space is required, use additional NRC Form 306A's) (17)

Corrective Action

To prevent recurrence, appropriate administrative actions were taken concerning the individuals involved. Although the first security officer failed to follow procedural guidance in logging of the repositioned switches, the officer did provide sufficient information that the second security officer should have recognized the condition of the affected switches. The second officer simply failed to count the number of switches he repositioned/normalized. It has been concluded that adequate procedural instruction currently exists.

In consideration of former LER 315/88-005-00 there has been individual identification numbers and isolation zone descriptions placed on each cardox control switch. These numbers may be used as an operational aid to assure the proper switch or switches are manipulated. Installation of the numbers and isolation zone information was completed on September 1, 1988.

Failed Component Identification

Not applicable - No components failed during the course of this event.

Previous Similar Events

- 50-315/88-005
- 50-315/85-008,-020
- 50-316/84-009,-022,-027
- 50-316/83-048,-060
- 50-315/83-022,-028,-034,-094,-114 50-316/82-054,-058,-062,-076,-084
- 50-315/82-037,-044,-045,-049,-068,-081,-082,-108

Indiana Michigan
Power Company
Cook Nuclear Plant
P.O. Box 458
Bridgman, MI 49106
616 465 5901



September 2, 1988

United States Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

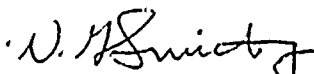
Operating License DPR-58
Docket No. 50-315

Document Control Manager:

In accordance with the criteria established by 10 CFR 50.73
entitled Licensee Event Reporting System, the following
report is being submitted:

88-006-00

Sincerely,


W. G. Smith, Jr.
Plant Manager

WGS:clw

Attachment

cc: D. H. Williams, Jr.
A. B. Davis, Region III
M. P. Alexich
P. A. Barrett
J. E. Borggren
R. F. Kroeger
NRC Resident Inspector
J. F. Stang, NRC
R. C. Callen
G. Charnoff, Esq.
Dottie Sherman, ANI Library
D. Hahn
INPO
PNSRC
A. A. Blind
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