

CATEGORY 1

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9609240195 DOC. DATE: 96/09/18 NOTARIZED: NO DOCKET #
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315
 AUTH. NAME AUTHOR AFFILIATION
 SCHOEPP, P. American Electric Power Co., Inc.
 BLIND, A.A. American Electric Power Co., Inc.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 96-003-00: on 960819, data points were deleted from recorder, due to lack of control of recorder programming functions. Five missing points were restored to data set.
 W/960918 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

NOTES:

RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
PD3-1 PD	1 1	HICKMAN, J	1 1
INTERNAL: AEOD/SBD/RAB	2 2	AEOD/SPD/RRAB	1 1
FILE CENTER	1 1	NRR/DE/ECGB	1 1
NRR/DE/EELB	1 1	NRR/DE/EMEB	1 1
NRR/DRCH/HHFB	1 1	NRR/DRCH/HICB	1 1
NRR/DRCH/HOLB	1 1	NRR/DRCH/HQMB	1 1
NRR/DRPM/PECB	1 1	NRR/DSSA/SPLB	1 1
NRR/DSSA/SRXB	1 1	RES/DSIR/EIB	1 1
RGN3 FILE 01	1 1		
EXTERNAL: L ST LOBBY WARD	1 1	LITCO BRYCE, J H	2 2
NOAC MURPHY, G.A	1 1	NOAC POORE, W.	1 1
NRC PDR	1 1	NUDOCS FULL TXT	1 1

NOTE TO ALL "RIDS" RECIPIENTS:
 PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK,
 ROOM OWFN 5D-5 (EXT. 415-2083) TO ELIMINATE YOUR NAME FROM
 DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

FULL TEXT CONVERSION REQUIRED
 TOTAL NUMBER OF COPIES REQUIRED: LTTR 25 ENCL 25

C
A
T
E
G
O
R
Y

1

D
O
C
U
M
E
N
T

American Electric Power
Cook Nuclear Plant
One Cook Place
Bridgman, MI 49106
616 465 5901



September 18, 1996

United States Nuclear Regulatory Commission
Document Control Desk
Rockville, Maryland 20852

Operating Licenses DPR-58
Docket No. 50-315

Document Control Manager:

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

96-003-00

Sincerely,

A handwritten signature in cursive script, appearing to read "A. A. Blind".

A. A. Blind
Site Vice President

/mbd

Attachment

c: A. B. Beach, Region III
E. E. Fitzpatrick
P. A. Barrett
S. J. Brewer
J. R. Padgett
D. Hahn
Records Center, INPO
NRC Resident Inspector

9609240195 960918
PDR ADOCK 05000315
S PDR

060078

1/1
Ie22

LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)
Donald C. Cook Nuclear Plant - Unit 1DOCKET NUMBER (2)
05000 315

Page 1 of 3

TITLE (4)

Data Points Deleted from Recorder Due to Lack of Control of Recorder's Programming Functions Results in Surveillance Requirement Not Being Met for Ice Bed Temperature Monitoring

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 NAME	DOCKET NUMBER
08	19	96	96	-- 003 --	00	09	18	96	FACILITY NAME	DOCKET NUMBER

OPERATING MODE (9)	1	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 50.73(a)(2)(iii) (Check one or more) (11)			
POWER LEVEL (10)	100	20.2201(b)	20.2203(a)(3)(i)	50.73(a)(2)(iii)	73.71(b)
		20.2203(a)(1)	20.2203(a)(3)(ii)	50.73(a)(2)(iv)	73.71(c)
		20.2203(a)(2)(i)	20.2203(a)(4)	50.73(a)(2)(v)	OTHER
		20.2203(a)(2)(ii)	50.36(c)(1)	50.73(a)(2)(vii)	(Specify in Abstract below and in Text, NRC Form 366A)
		20.2203(a)(2)(iii)	50.36(c)(2)	50.73(a)(2)(viii)(A)	
		20.2203(a)(2)(iv)	X 50.73(a)(2)(i)	50.73(a)(2)(viii)(B)	
	20.2203(a)(2)(v)	50.73(a)(2)(ii)	50.73(a)(2)(x)		

LICENSEE CONTACT FOR THIS LER (12)

NAME
Paul Schoepf, Nuclear Engineering - Safety Related Mechanical SystemsTELEPHONE NUMBER (Include Area Code)
616/465-5901, x2408

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	X	NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
-----	---	----	-------------------------------	-------	-----	------

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On August 19, 1996, at 0955 hours on Unit 1, it was discovered that 5 of the 18 specific points required to monitor Ice Condenser maximum ice bed temperature on recorder 1-SG-07 had been deleted from the data set used for this purpose. Without the specific points available to the recorder data point used to verify ice bed temperatures less than 27°F, the Technical Specification (TS) surveillance requirement imposed by TS 4.6.5.1.a was not being literally met. This failure to meet the surveillance requirement constitutes operation outside of the Technical Specifications, which is reportable under 10CFR50.73(a)(2)(i)(B).

The cause of the event was lack of control of the recorder's programming functions. The 5 missing specified data points were restored to the data set used to monitor the maximum ice bed temperature. The program was declared operable at 1355 hours on August 19, 1996. As an interim preventive measure, Operations has revised their surveillance procedure to require confirmation of the 18 data points. As a long term preventive measure, the SG-07 recorders will be reprogrammed to password protect the programming functions.

The event was evaluated and it was concluded that as other equivalent points were monitored and the ice bed temperatures were always below 27°F, the event had no safety significance, the health or safety of the public was not endangered at any time.

LICENSEE EVENT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
Cook Nuclear Plant - Unit 1	0500 315	YEAR	SEQUENTIAL	REVISION	2 OF 3
		96	-- 003 --	00	

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

Conditions Prior to Event

Mode 1, Power Operation, at 100 percent Rated Thermal Power.

Description of Event

There are a total of 96 Resistance Temperature Detectors (RTDs) located throughout the Ice Condenser ice beds for temperature monitoring. These 96 RTDs input temperature information to recorder 1-SG-07 located in the Control Room, and are collectively called the "100 series" data set. The 100 series is provided with 3 additional points designated for maximum, minimum and average temperatures of those 96 RTDs. Data point #510 is assigned as the maximum temperature for the 100 series.

Of the 96 RTDs, 18 are specifically designated to be monitored to fulfill the surveillance requirements of Technical Specification (TS) 4.6.5.1.a and TS 3.6.5.2. These 18 points are collectively called the "300 series" data set. The 300 series, like the 100 series, is provided with 3 additional points designated for maximum, minimum and average temperature of the 18 RTDs. Data point #520 is assigned as the maximum temperature for the 18 TS data points.

Prior to June 15, 1996, Operations used data point #510 to fulfill the once per 12 hours monitoring requirements of TS surveillance 4.6.5.1a. This point, being associated with the 100 series data set, looked at all 96 RTDs to find the maximum temperature. On June 15, 1996, a procedure change became effective that directed Operations to monitor the ice bed temperatures using data point #520, which outputs the maximum temperature of only the 18 TS RTDs.

On August 19, 1996 it was discovered that data point #520 was receiving only 13 of the required 18 TS temperature inputs. Since the TS require that all 18 data points be monitored for maximum temperature, the TS required surveillance requirements had not been met since June 15, 1996 when the procedure change went into effect.

Cause of Event

The cause of the event was lack of control of the recorder's programming functions.

The date on which the points were deleted was pinpointed to May 2, 1996, however, it could not be determined why the change was made, or by whom. It was possible for personnel to manipulate the data functions of the recorder without those manipulations being restricted in any manner. The most likely scenario for this event is that the data points were deleted by someone who was not qualified to program the recorder.

Analysis of Event

This event is being reported under 10CFR50.73(a)(2)(i)(B), as a condition prohibited by the plant's Technical Specifications. This event consisted of the failure to perform the TS required surveillance for the ice bed temperatures in the specific manner required to satisfy the TS, and as such has no impact on the operability of the Ice Condenser itself.

LICENSEE EVENT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	SERIAL NUMBER (6)			PAGE (3)
Cook Nuclear Plant - Unit 1	0500 315	YEAR	SEQUENTIAL	REVISION	3 OF 3
		96	-- 003 --	00	

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

Analysis of Event (cont'd)

TS 4.6.5.1.a requires that specific ice bed temperatures points be monitored once per 12 hours to verify that the maximum ice bed temperature is less than 27°F. TS 3.6.5.2, Ice Bed Temperature Monitoring System, requires that 2 RTDs at 3 separate elevations for each 1/3 of the ice condenser be operable. Therefore, all 18 points specific to the Tech Specs must be monitored to meet the requirement of the TS surveillance. For the period of June 15, 1996 to August 19, 1996, only 13 of those 18 required points were monitored.

Although the required number of points were not included in data point #520 for the maximum ice bed temperature of the TS 300 series data set, all 18 RTDs were inputting to the 100 series data set. If one of the 5 TS points deleted from the 300 series data set had exceeded the recorder alarm point of 22.5°F, the operators would still have received an alarm for high ice bed temperature from the 100 series data set. This alarm would have prompted them to take the appropriate actions in response to high ice bed temperature. Additionally, the ice condenser temperature strip charts from February 5, 1996 to August 20, 1996 were reviewed. The charts indicated that at no time were any of the 18 TS RTDs, or any of the other RTDs, reading greater than 27°F.

At no time during this period was the Ice Condenser, or any section of the ice beds comprising the Ice Condenser, inoperable. The ice beds ensure that sufficient heat removal capability to condense the reactor system volume released during a LOCA is available. The ice bed temperature monitoring system ensures that the capability for monitoring the ice temperature is available. The ice bed temperature monitoring system in no way affects the operability of the Ice Condenser itself, but simply provides assurance that the ice bed heat removal capacity is being maintained.

It was concluded that the lack of complete temperature monitoring had no effect on the operability of the Ice Condenser, therefore, the event had no safety significance and did not endanger the health or safety of the public.

Corrective Action

The 5 points were restored to the 300 series data set on August 19, 1996.

As an interim action to prevent recurrence, Operations has revised their procedure used for the TS surveillance, OHP 4030.STP.030, adding a step to verify that all 18 TS data points are being scanned prior to performing the surveillance.

By November 30, 1996, the Unit 1 and Unit 2 SG-07 recorders will have been reprogrammed to password protect all programming functions. All attendant procedure revisions made necessary by this programming change will also be completed by this date. These programming changes will not interfere with the data collection performed by Operations to comply with the TS surveillance requirements.

Failed Component Identification

None

Similar Events

None

