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Power Company  
500 Circle Drive  
Buchanan, MI 49107 1395



June 28, 2002

United States Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

Operating Licenses DPR-58  
Docket Nos. 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:

LER 315/2002-004-00: "Unit 1 Condenser Lower Inlet Door Test Failure"

There are no new commitments identified in this submittal.

Should you have any questions regarding this correspondence, please contact Mr. Gordon P. Arent , Manager, Regulatory Affairs, at (616) 697-5553.

Sincerely,

A handwritten signature in black ink, reading 'Joseph E. Pollock', is positioned above the typed name.

Joseph E. Pollock  
Site Vice President

RM/pae

Attachment

IE22

c: G. P. Arent  
A. C. Bakken  
L. Brandon  
K. D. Curry  
J. E. Dyer, Region III  
R. W. Gaston  
S. A. Greenlee  
J. A. Kobyra  
T. P. Noonan  
R. Whale  
NRC Resident Inspector  
Records Center, INPO

**LICENSEE EVENT REPORT (LER)**(See reverse for required number of  
digits/characters for each block)

Estimated burden per response to comply with this mandatory information collection request: 50 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the Records Management Branch (T-6 E6), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to bjs1@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202 (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

**1. FACILITY NAME**

Donald C. Cook Nuclear Plant Unit 1

**2. DOCKET NUMBER**

05000-315

**3. PAGE**

1 of 3

**4. TITLE**

Unit 1 Ice Condenser Lower Inlet Door Test Failure

**5. EVENT DATE**

MONTH	DAY	YEAR
5	11	02

**6. LER NUMBER**

YEAR	SEQUENTIAL NUMBER	REVISION NUMBER
2002	-- 004 --	00

**7. REPORT DATE**

MONTH	DAY	YEAR
06	28	2002

**8. OTHER FACILITIES INVOLVED**

FACILITY NAME	DOCKET NUMBER
FACILITY NAME	DOCKET NUMBER

**9. OPERATING MODE**

6

**11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check all that apply)**

<b>10. POWER LEVEL</b>	00	20.2201(b)	20.2203(a)(3)(ii)	50.73(a)(2)(ii)(B)	50.73(a)(2)(ix)(A)
		20.2201(d)	20.2203(a)(4)	50.73(a)(2)(iii)	50.73(a)(2)(x)
		20.2203(a)(1)	50.36(c)(1)(i)(A)	50.73(a)(2)(iv)(A)	73.71(a)(4)
		20.2203(a)(2)(i)	50.36(c)(1)(ii)(A)	50.73(a)(2)(v)(A)	73.71(a)(5)
		20.2203(a)(2)(ii)	50.36(c)(2)	50.73(a)(2)(v)(B)	OTHER Specify in Abstract below or in NRC Form 366A
		20.2203(a)(2)(iii)	50.46(a)(3)(ii)	50.73(a)(2)(v)(C)	
		20.2203(a)(2)(iv)	50.73(a)(2)(i)(A)	50.73(a)(2)(v)(D)	
		20.2203(a)(2)(v)	X 50.73(a)(2)(i)(B)	50.73(a)(2)(vii)	
		20.2203(a)(2)(vi)	50.73(a)(2)(i)(C)	50.73(a)(2)(viii)(A)	
		20.2203(a)(3)(i)	50.73(a)(2)(ii)(A)	50.73(a)(2)(viii)(B)	

**12. LICENSEE CONTACT FOR THIS LER****NAME**

Richard A. Meister, Regulatory Affairs

**TELEPHONE NUMBER (Include Area Code)**

(616) 465-5901, 1707

**13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT**

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO EPIX

**14. SUPPLEMENTAL REPORT EXPECTED**

YES (If Yes, complete EXPECTED SUBMISSION DATE).

X

NO

**15. EXPECTED  
SUBMISSION  
DATE**

MONTH

DAY

YEAR

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

On May 12, 2002, during the conduct of routine surveillance testing of the Unit 1 Ice Condenser, conducted in accordance with Technical Specification (TS), 4.6.5.3.1.b.3, the Donald C. Cook Nuclear Plant identified ice condenser door 15R failed its 40 degree opening force portion of the test.

The failure of ice condenser door 15R was due to incorrectly adjusted tension springs. The springs were adjusted and ice condenser door 15R was successfully retested in accordance with TS 4.6.5.3.1.b.3.

All remaining ice condenser doors were successfully tested and remained OPERABLE. Analysis has demonstrated that the failure of one door did not render the ice condenser INOPERABLE. Therefore, it has been determined that the failure of ice condenser door 15R had minimal safety significance.

**LICENSEE EVENT REPORT (LER)**  
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Donald C. Cook Nuclear Plant Unit 1

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**17. TEXT** (If more space is required, use additional copies of NRC Form (366A))

**Conditions Prior to Event**

Unit 1 - 0 percent power

Unit 2 - 100 percent power

**Description of Event**

During performance of 12-MHP-4030-010-003, "Ice Condenser Lower Inlet Door Surveillance," Section 4.3, "Forty Degree Force Test," bay 15, door 15R (the right door), failed the opening force portion of the test. This test is performed to fulfill the surveillance testing requirements specified in Technical Specification (TS) 4.6.5.3.1.b.3.

The actual average opening force for door 15R was 7.458 pounds (lb). The established acceptance criteria for opening force is less than 6.625 lb. This door failed to meet the opening force requirement as specified in the surveillance procedure. This equates to an opening torque of 212.6 inch-pounds, in excess of the <195 inch-pounds specified by TS.

The remaining TS surveillance requirements for the ice condenser doors were met.

**Cause of Event**

The Unit 1 ice condenser lower inlet doors were exempted from the requirement to perform the 40-degree force test surveillance as a result of Emergency License Amendment 265 for Unit 1, until this outage. During the performance of the 40-degree door test, which utilized the methodology developed during the Unit 2 refueling outage U2C13, door 15R exceeded the opening force criteria specified within the surveillance procedure.

An engineering evaluation concluded that this failure was directly attributable to the fact that during the extended shutdown, the door springs tension were set with the doors being held open with the previous 40 degree testing tool, which had been found to not position the door at the correct opening angle.

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## 17. TEXT (If more space is required, use additional copies of NRC Form (366A))

**Analysis of Event**

The Unit 1 Ice Condenser System, including the ice condenser doors, was refurbished prior to the previous operating cycle. For the identified condition, the potential impact of the failure of ice condenser door 15R was a failure to meet TS requirements. Given an assumed failure of both ice condenser doors in a specific bay to meet the 40-degree test opening force requirements, the ice condenser remained available to perform its design function. Analytical results have demonstrated that several ice condenser doors could fully fail to open upon demand without impacting the function of the ice condenser. As such, the Unit 1 ice condenser remained OPERABLE. Therefore, this event would not have adversely impacted the plant's ability to mitigate the consequences of an accident and therefore had minimal safety significance.

**Corrective Actions**

The springs for ice condenser door 15R were adjusted and the door was successfully retested in accordance with the requirements of TS 4.6.5.3.1.b.3.

**Previous Similar Events**

LER 50-315/2002-001-00: This LER documented the testing methodology used by Indiana Michigan Power (I&M), to establish operability of the ice condenser doors was flawed. Based on this discovery, I&M, was granted a one time exemption from the testing requirements of TS 4.6.5.3.1.b.3 until the unit entered an outage of sufficient duration that would facilitate the testing of the doors. Upon testing of the doors I&M identified that door 15R was incorrectly adjusted. Therefore the corrective actions established in LER 50-315/2002-001-00 could not have prevented the condition that is documented in this LER.