

# CATEGORY 1

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ACCESSION NBR:9902030311 DOC.DATE: 99/01/29 NOTARIZED: NO DOCKET #  
 FACIL:50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana M 05000315  
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 RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 98-059-00:on 981230,interim LER -single failure in  
 containment spray sys could result in containment spray pH  
 outside design occurred.Investigation into condition  
 continuing.Update will be submitted by 990514 ltr.

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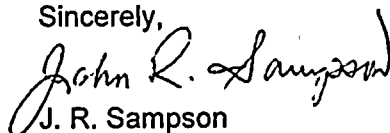
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In accordance with the criteria established by 10 CFR 50.73 entitled Licensee Event Report System, the following interim report is being submitted:

LER 315/98-059-00, "Single Failure In Containment Spray System Could Result In Containment Spray pH Outside Design"

No commitments were identified in this submittal.

Sincerely,

  
J. R. Sampson  
Site Vice President

/mbd  
Attachment

c: J. L. Caldwell (Acting), Region III  
R. P. Powers  
P. A. Barrett  
D. F. Kunsemiller  
R. Whale  
D. Hahn  
Records Center, INPO  
NRC Resident Inspector

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## 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 0 HRS REPORTED LESSONS LEARNED ARE  
INCORPORATED INTO THE LICENSING PROCESS AND FED BACK TO INDUSTRY.  
FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND  
RECORDS MANAGEMENT BRANCH (T-6 F33), 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) Cook Nuclear Plant Unit 1	DOCKET NUMBER (2) 05000-315	PAGE (3) 1 of 1
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TITLE (4) Interim LER - Single Failure In Containment Spray System Could Result In Containment Spray pH Outside Design
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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	
12	30	1998	1998	-- 059 --	00	01	29	1999	DC Cook - Unit 2	05000-316	
OPERATING MODE (9)		5	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)								
POWER LEVEL (10)		000	20.2201 (b)		20.2203(a)(2)(v)		50.73(a)(2)(i)		50.73(a)(2)(viii)		
			20.2203(a)(1)		20.2203(a)(3)(i)		X 50.73(a)(2)(ii)		50.73(a)(2)(x)		
			20.2203(a)(2)(i)		20.2203(a)(3)(ii)		50.73(a)(2)(iii)		73.71		
			20.2203(a)(2)(ii)		20.2203(a)(4)		50.73(a)(2)(iv)		OTHER		
			20.2203(a)(2)(iii)		50.36(c)(1)		50.73(a)(2)(v)		Specify in Abstract below or in NRC Form 366A		
			20.2203(a)(2)(iv)		50.36(c)(2)		50.73(a)(2)(vii)				

## LICENSEE CONTACT FOR THIS LER (12)

NAME Mr. Gary Brassart, Nuclear Safety Analysis Supervisor	TELEPHONE NUMBER (Include Area Code) 616/697-5106
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## COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

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

## SUPPLEMENTAL REPORT EXPECTED (14)

X YES (If Yes, complete EXPECTED SUBMISSION DATE).	NO	EXPECTED SUBMISSION DATE (15)	MONTH 05	DAY 14	YEAR 1999
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## Abstract (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

In December 1998, plant personnel identified an issue regarding a single failure in the Containment Spray (CTS) System which could result in loss of sodium hydroxide chemical addition to a single train of CTS during injection phase. On December 30, 1998, it was determined that this represented a condition outside the design bases. Therefore, this interim report is being submitted in accordance with 10 CFR 50.73 (a)(2)(ii)(B) as a condition outside the design bases of the plant.

The Containment Spray System operates in response to a Loss of Coolant Accident (LOCA) or MSLB inside containment. Sodium hydroxide solution from the spray additive tank is added to the spray using an eductor, and ensures that the pH of the spray and sump are maintained within the established limits. If a single valve supplying CTS flow through the eductor for one train of CTS fails closed, chemical addition to that train would be stopped. Lack of sodium hydroxide addition results in borated water from the RWST, with a pH of 4.5, being sprayed on components inside containment from the affected train of CTS. The equipment in containment is qualified for a pH range of 6.8 to 12.9. Therefore, spraying RWST water without sodium hydroxide additive results in spray pH outside the range used for equipment qualification.

This condition appears to be part of the original design of the plant. Investigation into this condition is continuing, and is expected to be complete April 30. An update to this interim LER will be submitted by May 14, 1999.