

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Catawba Nuclear Station, Unit 1	DOCKET NUMBER (2) 0 5 0 0 0 4 1 3	PAGE (3) 1 OF 0 1 3
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TITLE (4)  
Liquid Release Made Without Activity Sample Analysis

EVENT DATE (8)			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)
0 8	0 6	8 4	8 4	0 0 7	0 0	0 9	0 7	8 4			0 5 0 0 0
THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR § (Check one or more of the following) (11)											

OPERATING MODE (9) 6	20.402(b)	20.406(c)	50.73(a)(2)(iv)	73.71(b)
POWER LEVEL (10) 0 0 0	20.406(a)(1)(i)	50.38(e)(1)	50.73(a)(2)(v)	73.71(e)
	20.406(a)(1)(ii)	50.38(e)(2)	50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 366A)
	20.406(a)(1)(iii)	X 50.73(a)(2)(i)	50.73(a)(2)(viii)(A)	
	20.406(a)(1)(iv)	50.73(a)(2)(ii)	50.73(a)(2)(viii)(B)	
	20.406(a)(1)(v)	50.73(a)(2)(iii)	50.73(a)(2)(ix)	

LICENSEE CONTACT FOR THIS LER (12)

NAME Roger W. Ouellette, Assistant Engineer-Licensing	TELEPHONE NUMBER 7 1 0 1 4 3 1 7 1 3 1 - 1 7 1 5 3 1 0
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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)	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO			

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

On July 29, 1984, the Composite Sampler on the Conventional Waste Water Treatment (WC) System was declared inoperable. Technical Specification (Tech Spec) 3.3.3.10 requires a grab sample to be taken and analyzed if the Composite Sampler is declared inoperable and if a release into the lake is necessary.

On August 3, 1984, a 769,000-gallon release was made without taking the required grab sample. This incident is classified as a Personnel Error. The Health Physics (HP) Supervisor did not direct the Technicians to take the required grab sample. The incident was discovered on August 8, 1984. Unit 1 was in Mode 6 at the time. This incident violates Tech Spec 3.3.3.10, Action 42, and is reportable pursuant to 10 CFR 50.73 Section (a)(2)(i).

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
Catawba Nuclear Station, Unit 1	05000413	84	007	00	02	OF	03

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

The Conventional Waste Water Treatment (WC) System processes nonradioactive, nonsanitary water before being discharged into Lake Wylie. The WC System has a Composite Sampler which takes a sample of the liquid being released into the lake. Health Physics (HP) analyzes the contents of the Composite Sampler.

The contents of the Composite Sampler are collected and analyzed on a weekly basis to insure that the Tech Specs have been met. Section 4.2 of Procedure HP/O/B/1001/14, Preparation and Counting of Composite Samples, provides guidance on collecting and analyzing the samples. The weekly samples are collected as long as the Composite Sampler is operable.

If the Sampler becomes inoperable, then an action statement of Tech Spec 3.3.3.10 applies. This states that releases may continue for up to 30 days if grab samples are analyzed at the following frequencies:

- 1) "At least once per 12 hours when the specific activity of the secondary coolant is greater than 0.01 micro Curie/gram DOSE EQUIVALENT I-131", or
- 2) "At least once per 24 hours when the specific activity of the secondary coolant is less than or equal to 0.01 micro Curie/gram DOSE EQUIVALENT I-131."

Section 4.3 of HP/O/B/1001/14 is used when the Composite Sampler is inoperable.

A daily check on the WC System is performed using procedure OP/O/B/6500/08 (Operating Procedure for the Conventional Wastewater Treatment System). A channel check is performed as part of the daily check to determine the operability of the Composite Sampler. The Sampler was found to be inoperable on July 29, 1984. The Shift Supervisor was informed and the item was added to the Tech Spec Action Item Log (TSAIL). Work Request 2620 CHM was initiated to investigate and repair the Sampler. Procedure HP/O/B/1001/14 was implemented to comply with Tech Spec 3.3.3.10.

No releases were made from July 29th to August 1. Since no releases were made, no grab samples were required for analysis. A release was made on August 2, and a grab sample from this release was analyzed. The analysis revealed no radioactive material in the sample.

The problem with the Composite Sampler was corrected on August 3rd. A release was made on the same day. Health Physics personnel noticed that the Sampler was working and assumed it to be operable. Therefore, a grab sample was not obtained because the action statement of Tech Spec 3.3.3.10 does not apply when the Composite Sampler is operable. However, the Sampler was still declared inoperable in the TSAIL because the Work Request had not been signed-off as complete.

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

On the following day, August 4th, appropriate personnel were informed that the Composite Sampler was listed as inoperable in the TSAIL. Grab samples were then obtained from August 4th to August 6th. The Work Request was signed-off on the 6th and the Composite Sampler entry was cleared out of the TSAIL.

CORRECTIVE ACTION

Chemistry Procedure OP/O/B/6500/08 was revised to delete the channel check on the Composite Sampler.

Health Physics Procedure HP/O/B/1001/14 was revised as follows:

- 1) HP will perform the daily channel check on the Composite Sampler.
- 2) HP will write and track the Work Request when the Composite Sampler becomes inoperable.
- 3) A log sheet was added to record operability checks, personnel notifications, etc.

The procedure changes transfer responsibility of the channel checks for the Composite Sampler from Chemistry to Health Physics. This will eliminate any communication problems concerning the Sampler. HP will be more aware of the Composite Sampler status.

The planned action will verify that HP Count Room personnel have a clear understanding of their responsibility concerning the Composite Sampler.

SAFETY ANALYSIS

Since the Catawba Unit 1 core has not been critical, and based on the analyses performed from August 2nd to the 6th, it can be concluded that the release made on the 3rd did not contain radioactive material. The health and the safety of the public were not affected by this incident.

**DUKE POWER COMPANY**

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HAL B. TUCKER  
VICE PRESIDENT  
NUCLEAR PRODUCTION

TELEPHONE  
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September 7, 1984

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

Subject: Catawba Nuclear Station, Unit 1  
Docket No. 50-413

Gentlemen:

Pursuant to 10 CFR 50.73 Sections (a) (1) and (d), attached is Licensee Event Report 413/84-07 concerning a Liquid release made without activity sample analysis. This event was considered to be of no significance with respect to the health and safety of the public.

Very truly yours,

*H. B. Tucker*

Hal B. Tucker

RWO:s1b

Attachment

cc: Mr. James P. O'Reilly, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, NW, Suite 2900  
Atlanta, Georgia 30323

INPO Records Center  
Institute of Nuclear Power Operations  
1100 Circle 75 Parkway, Suite 1500  
Atlanta, Georgia 30339

NRC Resident Inspector  
Catawba Nuclear Station

American Nuclear Insurers  
c/o Dottie Sherman, ANI Library  
The Exchange, Suite 245  
270 Farmington Avenue  
Farmington, CT 06032

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September 7, 1984  
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