



Carolina Power & Light Company
P.O. Box 10429
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APR 19 1996

SERIAL: BSEP 96-0151
10 CFR 50.73

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

BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 and DPR-62
LICENSEE EVENT REPORT 1-96-004

Gentlemen:

In accordance with the Code of Federal Regulations, Title 10, Part 50.73, Carolina Power & Light Company submits the enclosed Licensee Event Report. This voluntary report fulfills the requirement for a written report within thirty (30) days of a reportable occurrence.

Please refer any questions regarding this submittal to Mr. George Honma at (910) 457-2741.

Sincerely,

W. Levis
Director - Site Operations
Brunswick Nuclear Plant

MAT/sft

Enclosures

1. Licensee Event Report
2. Summary of Commitments

cc: Mr. S. D. Ebner, Regional Administrator, Region II
Mr. D. C. Trimble, NRR Project Manager - Brunswick Units 1 and 2
Mr. C. A. Patterson, Brunswick NRC Senior Resident Inspector
The Honorable H. Wells, Chairman - North Carolina Utilities Commission

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9604290054 960419
PDR ADDCK 05000325
S PDR

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)

Brunswick Steam Electric Plant, Unit 1

DOCKET NUMBER (2)

05000325

PAGE (3)

1 OF 3

TITLE (4)

Standby Gas Treatment System Charcoal Testing

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
03	21	96	96	-- 04	-- 00	04	19	96	FACILITY NAME	DOCKET NUMBER
										05000
OPERATING MODE (9)		04	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 4. (Check one or more) (11)							
POWER LEVEL (10)		0	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)		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)		<input checked="" type="checkbox"/> OTHER	
			20.2203(a)(2)(iii)		50.36(c)(1)		50.73(a)(2)(v)		Specify in Abstract b 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

Mark A. Turkal, Regulatory Affairs

TELEPHONE NUMBER (Include Area Code)

(910) 457-3066

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

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPROS

SUPPLEMENTAL REPORT EXPECTED (14)

YES

(If yes, complete EXPECTED SUBMISSION DATE).

X

NO

EXPECTED
SUBMISSION
DATE (15)

MONTH

DAY

YEAR

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

On March 21, 1996, with Unit 1 in Cold Shutdown for repairs to service water pumps, it was determined that vendor testing performed on installed charcoal in the standby gas treatment system was not performed to the pre and post sweep temperature requirements of Regulatory Guide 1.52, Revision 1. Surveillance Requirement 4.6.6.1.b.2 specifies testing which meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 1.

When this issue was identified, Unit 1 was in Operational Condition 4 with no movement of irradiated fuel in secondary containment. A management decision was made to hold startup of Unit 1 until resolution of the issue was complete. Testing of samples of the installed charcoal was satisfactorily completed and system operability was confirmed on March 23, 1996, prior to restart of Unit 1.

This event is being reported as a voluntary LER.

LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

FACILITY NAME (1)	DOCKET	LER NUMBER (6)			PAGE (3)
		YEAR	SEQUENTIAL	REVISION	
Brunswick Steam Electric Plant, Unit 1	05000325	96	-- 04	-- 00	2 OF 3

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

TITLE

Standby Gas Treatment System Charcoal Testing

INITIAL CONDITIONS

On March 21, 1996, Unit 1 was in Cold Shutdown for repairs to service water pumps.

EVENT NARRATIVE

Surveillance Requirement 4.6.6.1.b.2 specifies periodic testing of installed charcoal which meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 1. Regulatory Guide 1.52, Revision 1 requires radioiodine removal efficiency for methyl iodide be conducted at 70% relative humidity with a pre-loading sweep at 25 degrees C, loading for 2 hours at 80 degrees C, and a 2 hour post-loading sweep at 25 degrees C. CP&L contracted a vendor to perform this testing who, in turn, certified that the testing was performed in accordance with Regulatory Guide 1.52, Revision 1.

On March 21, 1996 it was determined that vendor testing performed on the installed charcoal in the Unit 1 standby gas treatment system (BH) was not performed to the pre- and post-sweep temperature requirements of Regulatory Guide 1.52, Revision 1. The installed charcoal had been tested at 70% relative humidity with pre-loading, loading, and post-loading completed at 80 degrees C. The vendor provided his certification that the testing was performed in accordance with Regulatory Guide 1.52, Revision 1 because he considered the testing employed to be equivalent to that specified in the regulatory guide and to be adequate for determining charcoal adsorbancy. This position was subsequently corroborated by an independent industry expert. In addition, similar charcoal efficiency results were obtained by subsequent testing of BNP charcoal samples to the Regulatory Guide 1.52, Revision 1 temperature profiles.

When this issue was identified, Unit 1 was in Operational Condition 4 with no movement of irradiated fuel in secondary containment. A management decision was made to hold startup of Unit 1 until resolution of the issue was complete. Testing of samples of the installed charcoal was satisfactorily completed and system operability was confirmed on March 23, 1996, prior to restart of Unit 1.

CAUSE OF EVENT

This event was caused by the vendor's interpretation of Regulatory Guide 1.52, Revision 1. The vendor performed testing which he believed was equivalent to but did not conform with the verbatim pre and post loading sweep temperature requirements of the Regulatory Guide. The documentation received by BNP for the testing stated that it met the criteria of Regulatory Guide 1.52, Revision 1. The vendor believed that performance of an equivalent test met this requirement.

LICENSEE EVENT REPORT (LER)
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Brunswick Steam Electric Plant, Unit 1	05000325	96	-- 04	-- 00	3 OF 3

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

CORRECTIVE ACTIONS

Testing of samples of the installed charcoal per Regulatory Guide 1.52, Revision 1, was satisfactorily completed on March 23, 1996, prior to restart of Unit 1.

New charcoal had been installed in the Unit 2 standby gas treatment system and the control building emergency air filtration system. The 18-month surveillances for this charcoal had not yet expired. However, testing of charcoal installed in the Unit 2 standby gas treatment system and the control building emergency air filtration system was also performed. The results of this testing indicated that the charcoal's radioiodine removal efficiency for methyl iodide exceeded the Regulatory Guide 1.52, Revision 1 acceptance criteria of 99.825%.

The vendor has been notified that future testing will be performed in accordance with the requirements specified in the purchase order.

SAFETY ASSESSMENT

The safety significance of this event was minimal. Testing of samples of the Unit 1 standby gas treatment system installed charcoal was satisfactorily completed on March 23, 1996, prior to restart of Unit 1. New charcoal had been installed in the Unit 2 standby gas treatment system and the control building emergency air filtration system. The 18-month surveillances from original installation for this charcoal had not yet expired.

CP&L tested samples of the installed charcoal in the Unit 2 standby gas treatment system and the control building emergency air filtration system. The results of this testing indicated that the charcoal's radioiodine removal efficiency for methyl iodide exceeded the Regulatory Guide 1.52, Revision 1 acceptance criteria of 99.825%.

PREVIOUS SIMILAR EVENTS

None.

EIIS COMPONENT IDENTIFICATION

<u>System/Component</u>	<u>EIIS Code</u>
Standby Gas Treatment System	BH
Control Building Emergency Air Filtration System	None

Enclosure
List of Regulatory Commitments

The following table identifies those actions committed to by Carolina Power & Light Company in this document. Any other actions discussed in the submittal represent intended or planned actions by Carolina Power & Light Company. They are described to the NRC for the NRC's information and are not regulatory commitments. Please notify the Manager-Regulatory Affairs at the Brunswick Nuclear Plant of any questions regarding this document or any associated regulatory commitments.

Commitment	Committed date or outage
1. None	NA