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LICENSEE EVENT REPORT (LES

U.S. NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/95

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On January 14, 1985, at 1430 hours, both Standby Gas Treatment (SBGT) (BH) trains were declared inoperable due to power output greater than that specified by Technical Specifications of replacement heaters installed in the trains. A GSEP Alert was declared and shutdown of Units 1 and 2 commenced.

The cause of the event was not referencing the Tech Spec acceptance criteria to a specific bus voltage as well as approval of shop test results by the architect engineers without consulting applicable Technical Specification acceptance criteria.

A revision has been requested to Technical Specification 3.6.5 to clarify the power output requirements for the VG train heaters.

The heaters are manufactured by Nutherm International.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104 EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	DOCKET NUMBER (2)				LER NUMBER (6)							
			YEAR		SEQUENTIAL NUMBER		REVISION						
LaSalle County Station Unit 1	0 5 0 0 0 3 7	3	815	-	9015	_	010	012	OF	0 3			

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I. EVENT DESCRIPTION

On January 14, 1985, at 1430 hours, during the post maintenance testing associated with Modification M-1-2-83-009, it was determined that the replacement heater installed in the Unit 2 Standby Gas Treatment system (SBGT) (BH) exceeded the maximum power output requirements of Technical Specification 3.6.5. Upon further investigation, it was determined that an identical heater installed in the Unit 1 SBGT system under Modification M-1-1-83-115 would be subjected to the same power output based on normal variations in bus voltage. Both SBGT trains were declared inoperable.

A GSEP Alert was declared, and shutdown of units 1 and 2 was commenced.

II. CAUSE

At the time the Unit 1 replacement heater was tested, voltage on bus 136Y was 460 volts resulting in a power output of 21.8 kilowatts (KW). Since this value was in accordance with Technical Specification 4.6.5.3.d.3 acceptance criteria, the SBGT system was declared operable. When the Unit 2 SBGT replacement heater was tested, bus voltage was 478V. Since power varies as the square of voltage, a 23.2 KW power output resulted. This value was outside of the 20 ± 2 KW allowed by Technical Specification 4.6.5.3.d.3. A recheck on Unit 1 test results revealed that bus voltage had risen to 478 volts thereby making the Unit 1 SBGT system inoperable according to Technical Specification requirements.

All test results were found to be identical to shop test results obtained by the vendor (Nutherm International). The shop test results had been reviewed and approved by the architect engineers based on design parameters of the SBGT system without considering the 20 \pm 2 KW requirement of Technical Specification 3.6.5.

III. PROBABLE CONSEQUENCES OF THE OCCURRENCE

The design requirements of the SBGT (BH) heater given in Section 6.5.1.2.1.c.4 of the Final Safety Analysis Report state that a minimum of 47,000 BTU/hr at 95°F inlet temperature is required. ANSI N510-1975, "Testing of Nuclear Air Cleaning Systems", which provides surveillance requirements to detect heater degradation, does not address minimum or maximum wattage ratings. The 20 ± 2 KW figure which appears in Technical Specification 4.6.5.3.d.3 was chosen based on the design of the original heater installed in the SBGT system at LSCS. Therefore, the event had no effect on the ability of the SBGT system to perform its design function and thus had no effect on the plant.

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LICENSEE EVENT REPORT (LFR) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104 EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)		L	R NUMBER (6)	PAGE (3)					
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IV. CORRECTIVE ACTION

A telephone meeting was held between members of the CECo LaSalle Station, CECo Corporate Command Center, NRC Region III and the Office of Nuclear Reactor Regulation. It was determined that the heaters installed in the SBGT system were adequate to allow continued operation of both units. The GSEP Alert was terminated at 1730 hours.

On 1/15/85, Onsite Review 85-04 was performed, requesting an amendment to Technical Specification 3.6.5. This revision documents the use of a 23 + 2 KW heater and also normalizes all wattage ratings to a specific bus voltage (480 volts). This proposed amendment also requests that the Emergency Air Makeup duct heaters wattage surveillance also be corrected to 480 volts, to ensure that the heater performance is adequately tested.

No further problems have occurred with the SBGT heaters.

The heaters are manufactured by Nutherm International.

V. PREVIOUS OCCURRENCES

None.

VI. NAME AND TELEPHONE NUMBER OF PREPARER

Dale A. Spencer, 815/357-6761, extension 649.

February 6, 1985

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

Dear Sir:

Reportable Occurrence Report #85-005-00, Docket #050-373 is being submitted to your office in accordance with 10CFR 50.73.

& G. J. Diederich
Superintendent
LaSalle County Station

GJD/MLD/kg

Enclosure

xc: NRC, Regional Director INPO-Records Center File/NRC

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