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June 19, 1990

Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

DOCKET 50-255 - LICENSE DPR-20 - PALISADES PLANT -  
LICENSEE EVENT REPORT 90-010 - TECHNICAL SPECIFICATION REQUIRED  
SAMPLING OF PRIMARY COOLANT SYSTEM FOR IODINE ACTIVITY DELAYED DUE  
TO PERSONNEL ERROR

Licensee Event Report (LER) 90-010 (Technical Specification Required Sampling  
of Primary Coolant System for Iodine Activity Delayed Due to Personnel Error)  
is attached. This event is reportable to the NRC per 10CFR50.73(a)(2)(i).

Brian D Johnson  
Staff Licensing Engineer

CC Administrator, Region III, USNRC  
NRC Resident Inspector - Palisades

Attachment

9006270081 900619  
PDR ADDCK 05000255  
S FDC

OC0690-0043-NL04

A CMS ENERGY COMPANY

IF22  
11

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Palisades Nuclear Plant	DOCKET NUMBER (2) 0 5 0 0 0 2 5 1 5 1	PAGE (3) 1 OF 0 1 3
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TITLE (4) Technical Specification Required Sampling of Primary Coolant For Iodine Activity Delayed Due to Personnel Error

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 NAMES		
0 5	2 0	9 0	9 0	0 1 0	0 0	0 6	1 9	9 0	N/A		
									DOCKET NUMBER(S) 0 5 0 0 0		

OPERATING MODE (9) N	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																					
	POWER LEVEL (10) 0 1 3 5	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(a)(1)(i)	<input type="checkbox"/> 20.405(a)(1)(ii)	<input type="checkbox"/> 20.405(a)(1)(iii)	<input type="checkbox"/> 20.405(a)(1)(iv)	<input type="checkbox"/> 20.405(a)(1)(v)	<input type="checkbox"/> 20.405(a)(1)(vi)	<input type="checkbox"/> 20.406(c)	<input type="checkbox"/> 80.38(e)(1)	<input type="checkbox"/> 80.38(e)(2)	<input checked="" type="checkbox"/> 80.73(a)(2)(i)	<input type="checkbox"/> 80.73(a)(2)(ii)	<input type="checkbox"/> 80.73(a)(2)(iii)	<input type="checkbox"/> 80.73(a)(2)(iv)	<input type="checkbox"/> 80.73(a)(2)(v)	<input type="checkbox"/> 80.73(a)(2)(vi)	<input type="checkbox"/> 80.73(a)(2)(vii)	<input type="checkbox"/> 80.73(a)(2)(viii)	<input type="checkbox"/> 80.73(a)(2)(ix)	<input type="checkbox"/> 73.71(b)	<input type="checkbox"/> 73.71(e)

LICENSEE CONTACT FOR THIS LER (12)

NAME CSKozup, Technical Engineer, Palisades	TELEPHONE NUMBER 6 1 1 6 7 1 6 4 - 1 8 1 9 1 3
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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
				N					

SUPPLEMENTAL REPORT EXPECTED (14)

<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)	<input checked="" type="checkbox"/> NO	EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR
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ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

Abstract

At 1800 hours on May 20, 1990 the Plant was operating at approximately 35% power, with the Primary Coolant System (PCS) at 538 degrees F and 2060 psia. Technical Specification 4.2, Table 4.2.1 requires an isotopic analysis of the PCS for iodine within two to six hours after a thermal power increase of greater than 15% in a one hour period. Thermal power was increased from 3.3% to 23.6% between 1100 hours and 1200 hours on May 20, 1990; however, a PCS sample was not obtained within the required interval. Upon discovery of the missed sample, a PCS sample was obtained for isotopic analysis at 0910 hours on May 21, 1990.

This event was caused by a personnel error involving a Chemistry Technician, and was contributed to by inadequate communication. As corrective action, procedure GOP-5 will be revised to more clearly state that Chemistry Technicians are to be informed of the hourly rate of power change and expected power level when requesting Technical Specification required sampling that is power dependent. Additionally, information will be provided in the training program for Chemistry Technicians regarding the types of plant evolutions that can potentially impact their work activities, and the need to inquire about power level changes when contacted by Operations personnel to perform sampling. This event did not involve failure of a component or system.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)  Palisades Plant	DOCKET NUMBER (2)  0 5 0 0 0 2 5 5 9 0	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
		0	1	0	0	2	03

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

Event Description

At 1800 hours on May 20, 1990 the Plant was operating at approximately 35% power, with the Primary Coolant System (PCS) (AB) at 538 degrees F and 2060 Fpsia. Technical Specification 4.2, Table 4.2.1 requires an isotopic analysis of the PCS for iodine within two to six hours after a thermal power increase of greater than 15% in a one hour period. Thermal power was increased from 3.3% to 23.6% between 1100 hours and 1200 hours on May 20, 1990; however, a PCS sample was not obtained within the required interval. Upon discovery of the missed sample, a PCS sample was obtained for isotopic analysis at 0910 hours on May 21, 1990 ( 15 hours after required).

An investigation conducted after the event indicated that Operations personnel contacted a Chemistry Technician at 1230 hours on May 20, 1990 and indicated that the Plant was at 25% power. It was not specifically mentioned during this notification that thermal power had been increased by over 15% the previous hour, or that it was necessary to obtain a PCS sample for isotopic analysis. The Chemistry Technician has stated that she was aware of the requirement to obtain a PCS sample following a thermal power change exceeding 15% in a one hour period, but that she was unaware of Plant power history at the time she was contacted, and that she did not ask whether thermal power had increased by more than 15% during the previous hour.

Prior to receiving the power level notification 1230 hours on May 20, the same Chemistry Technician had been verbally reminded of the PCS sampling requirement by the Chemistry Laboratory Supervisor on May 18, and also by the "A" Chemistry Technician earlier on May 20. Additionally, the requirement to perform PCS sampling for isotopic analysis is contained in procedure COP-1, "Primary Coolant System Chemistry", and was noted on the Chemistry Shift turnover board that is located in the Chemistry laboratory.

The last time that the PCS had been sampled for isotopic analysis prior to the missed sample was at 1040 hours on May 21, 1990, immediately prior to placing the Plant on-line at 1100 hours. Activity levels noted during isotopic analysis of the PCS sample that was obtained at 0910 hours on May 21 were compared to activity levels from this previous analysis and were considered normal for Plant startup. Additionally, neither off-gas monitor RIA-0631 (MON;RI,RA) nor failed fuel monitor RIA-0202 (MON;RI,RA) indicated a significant increase in activity during the thermal power increase. The alarm and indication functions associated with the failed fuel monitor were available during the period when sample analysis results were unavailable despite the fact the RIA-0202 had been declared inoperable for reasons unrelated to its monitoring capability.

A Management Review Board meeting was held on May 22, 1990 to review the circumstances surrounding this event with the Chemistry Technician who was involved and the Chemistry Superintendent. At the request of the review board, a Human Performance Evaluation was performed, and the results of this evaluation were incorporated into the corrective action plan for this event.