

NRC Form 366
(9-83)U.S. NUCLEAR REGULATORY COMMISSION
APPROVED OMB NO. 3150-0104
EXPIRES 8/31/85

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) SURREY POWER STATION, UNIT 2	DOCKET NUMBER (2) 0 5 0 0 0 2 8 1	PAGE (3) 1 OF 0 2
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TITLE (4) RHR Motor - Wrong Insulation

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		DOCKET NUMBER(S)					
0	3	2	3	8	4	8	4	0	0	0	8	0	5	0	0	0
0	3	2	3	8	4	8	4	0	0	0	8	0	5	0	0	0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 5: (Check one or more of the following) (11)												
OPERATING MODE (9) N		20.402(b)			20.405(c)			50.73(a)(2)(iv)			73.71(b)	
		20.405(a)(1)(i)			50.38(c)(1)			50.73(a)(2)(v)			73.71(c)	
		20.405(a)(1)(ii)			50.38(c)(2)			50.73(a)(2)(vii)			OTHER (Specify in Abstract below and in Text, NRC Form 365A)	
		20.405(a)(1)(iii)			50.73(a)(2)(i)			50.73(a)(2)(viii)(A)				
		20.405(a)(1)(iv)			50.73(a)(2)(ii)			50.73(a)(2)(viii)(B)				
POWER LEVEL (10) 0 0 0		20.405(a)(1)(v)			50.73(a)(2)(iii)			50.73(a)(2)(x)				

LICENSEE CONTACT FOR THIS LER (12)											
NAME J. L. Wilson, Station Manager								TELEPHONE NUMBER 8 0 4 3 5 7 1 - 3 1 8 4			

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPDs		

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 March 23, 1984 with unit 2 at cold shutdown, a review of past maintenance reports revealed that the 4160 volt motor leads for the unit's residual heat removal (RH) pump motors were improperly electrically insulated with heat shrinkable material rated for 1000 volts.

The maintenance procedure used to repair the RH motors was inadequate in that it did not specify the appropriate reference manual or instructions for installing heat shrinkable insulation.

The heat shrinkable insulation was replaced with qualified tape on both motors. The corrective maintenance procedure for all 4160 volt motors will be changed to reference the appropriate instruction manual to insure the correct material is used and installed properly. In addition, all safety related 4160 volt motor connections will be inspected to insure proper insulation during scheduled surveillance.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)		
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER			
SURRY POWER STATION	0 5 0 0 0 2 8 1 8 4	—	0 0 8	— 0 p	0 2	OF	0 2

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

1. Description of the Event

On March 23, 1984 with unit 2 at cold shutdown, a review of past maintenance reports revealed that the 4160 volt motor leads for the unit's residual heat removal (RH) pump motors were improperly electrically insulated with heat shrinkable material rated for 100 volts. The incorrect insulation was installed following mechanical maintenance on residual heat pump 2-RH-P-1A on 8-01-83 and 2-RH-P-1B on 9-17-83.

2. Safety Consequences and Implications

The residual heat removal system is required to bring the reactor coolant system from conditions of approximately 350°F and pressure between 400 and 450 psig to cold shutdown conditions. Heat removal at greater temperatures is by the steam and power conversion system.

A post maintenance checkout, consisting of testing the insulation to 5000 volts and restarting the RH motors for 30 minutes, was satisfactory. Also, the residual heat removal system test PT-30.1 was satisfactorily completed following maintenance, therefore, the health and safety of the public were not affected.

3. Cause

The maintenance procedure used to repair the RH motors was inadequate in that it did not specify the appropriate reference manual or instructions for installing heat shrinkable insulation.

4. Immediate Corrective Action

Electrical insulation resistance was measured and confirmed satisfactory.

5. Additional Corrective Action

The heat shrinkable insulation was replaced with qualified tape on both motors.

6. Action Taken to Prevent Recurrence

The corrective maintenance procedure for all 4160 volt motors will be changed to reference the appropriate instruction manual to insure the correct material is used and installed properly.

7. Generic Implications

All safety related 4160 volt motor connections will be inspected to insure proper insulation during scheduled surveillance.