

LICENSEE EVENT REPORT

CONTROL BLOCK:

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 (1)

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

1	V	A	S	P	S	2	2	0	0	-	0	0	0	0	0	0	3	4	1	1	1	1	4			5	
8	9	LICENSEE CODE					14	15	LICENSE NUMBER								25	26	LICENSE TYPE					30	57	CAT	58

ON'T

REPORT SOURCE L 6 0 5 0 0 0 2 8 1 7 0 1 1 4 8 1 8 0 2 1 3 8 1 9

60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

2 With Unit No. 2 at 100% power, PT-27 (heat tracing) revealed that amp readings for Panels
3 8 and 9, circuits 20C were below the acceptance criteria stipulated in the PT, there-
4 fore, the BIT recirc was declared inoperative. This event is contrary to TS 3.3.A.3 but
5 permitted by T.S.3.3.B.10. This event is reportable per T.S.6.6.2.b(2). The health and
6 safety of the public were not affected.

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0 8 8 9 8

0 9

SYSTEM CODE CAUSE CODE CAUSE SUBCODE COMPONENT CODE COMP. SUBCODE VALVE SUBCODE

S H 11 E 12 A 13 H E A T E R 14 Z 15 Z 16

9 10 11 12 13 14 15 16 17 18 19 20

(17) LER/RO REPORT NUMBER 81 —

SEQUENTIAL REPORT NO. 007 /

OCCURRENCE CODE 03

REPORT TYPE L —

REVISION NO. 0

ACTION TAKEN		FUTURE ACTION		EFFECT ON PLANT	SHUTDOWN METHOD	HOURS	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER					
C	18	F	19	Z	21	0000	Y	23	N	24	25	T	1	8	5
33	34	35	36	37	40	41	42	43	44						

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The loss of heat tracing was due to excessive temperatures breaking down the insulation.

11 The defective heat tracing was replaced and tested within 2 hrs. A design change has

112 | been initiated to change the manner by which these borated lines are heat traced.

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8 9		FACILITY STATUS		10 11		12 13		14 15		16 17		18 19		20 21		22 23		24 25		26 27		28 29		30 31		32 33		34 35		36 37		38 39		40 41		42 43		44 45		46 47		48 49		50 51		52 53		54 55		56 57		58 59		60 61		62 63		64 65		66 67		68 69		70 71		72 73		74 75		76 77		78 79		80 81		82 83		84 85		86 87		88 89		90 91		92 93		94 95		96 97		98 99		100 101		102 103		104 105		106 107		108 109		110 111		112 113		114 115		116 117		118 119		120 121		122 123		124 125		126 127		128 129		130 131		132 133		134 135		136 137		138 139		140 141		142 143		144 145		146 147		148 149		150 151		152 153		154 155		156 157		158 159		160 161		162 163		164 165		166 167		168 169		170 171		172 173		174 175		176 177		178 179		180 181		182 183		184 185		186 187		188 189		190 191		192 193		194 195		196 197		198 199		200 201		202 203		204 205		206 207		208 209		210 211		212 213		214 215		216 217		218 219		220 221		222 223		224 225		226 227		228 229		230 231		232 233		234 235		236 237		238 239		240 241		242 243		244 245		246 247		248 249		250 251		252 253		254 255		256 257		258 259		260 261		262 263		264 265		266 267		268 269		270 271		272 273		274 275		276 277		278 279		280 281		282 283		284 285		286 287		288 289		290 291		292 293		294 295		296 297		298 299		300 301		302 303		304 305		306 307		308 309		310 311		312 313		314 315		316 317		318 319		320 321		322 323		324 325		326 327		328 329		330 331		332 333		334 335		336 337		338 339		340 341		342 343		344 345		346 347		348 349		350 351		352 353		354 355		356 357		358 359		360 361		362 363		364 365		366 367		368 369		370 371		372 373		374 375		376 377		378 379		380 381		382 383		384 385		386 387		388 389		390 391		392 393		394 395		396 397		398 399		400 401		402 403		404 405		406 407		408 409		410 411		412 413		414 415		416 417		418 419		420 421		422 423		424 425		426 427		428 429		430 431		432 433		434 435		436 437		438 439		440 441		442 443		444 445		446 447		448 449		450 451		452 453		454 455		456 457		458 459		460 461		462 463		464 465		466 467		468 469		470 471		472 473		474 475		476 477		478 479		480 481		482 483		484 485		486 487		488 489		490 491		492 493		494 495		496 497		498 499		500 501		502 503		504 505		506 507		508 509		510 511		512 513		514 515		516 517		518 519		520 521		522 523		524 525		526 527		528	
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ACTIVITY CONTENT RELEASED OF RELEASE		AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
1	6	N/A	N/A
2	33		
3	34		

PERSONNEL EXPOSURES									
NUMBER			TYPE		DESCRIPTION (39)				
1	7	0	0	0	(37)	Z	(38)	N/A	

		PERSONNEL INJURIES				
		NUMBER	DESCRIPTION			
1	2	0	0	0	N/A	

LOSS OF OR DAMAGE TO FACILITY		(43)
TYPE	DESCRIPTION	

9	Z	(42)	N/A
8	9	10	
PUBLICITY		(45)	8102200542
ISSUED DESCRIPTION			NRC USE ONLY

2 0 N 44 N/A 68 69 80

10 Name of Preparer: J. L. Wilson PHONE: (804) 357-3184

NRC USE ONLY

10 Name of Preparer: J. L. Wilson PHONE: (804) 357-3184

11-3-93

ATTACHMENT I

SURRY POWER STATION, UNIT 2

DOCKET NO: 50-281

REPORT NO: 81-007/03L-0

EVENT DATE: 01-14-81

EVENT TITLE: BIT RECIRC INOPERATIVE DUE TO HEAT TRACING FAILURE

1. DESCRIPTION of EVENT:

With Unit Two at 100% power, PT-27C revealed that amp readings for circuit 20C in Panels 8 and 9 were below the acceptance criteria stipulated in the PT.

The heat tracing circuits are intended to maintain a fluid temperature above that needed for flow. Since both channels of heat tracing were inoperable, the Boron Injection Tank recirc. was declared inoperable. This event is contrary to T.S. 3.3.A.3, but permitted by T.S.3.3.B.10 for a period of 2 hrs.

This event is reportable per T.S. 6.6.2.b.(2).

2. PROBABLE CONSEQUENCES and STATUS of REDUNDANT EQUIPMENT:

Continuous recirculation between the Boron Injection Tank and Boric Acid Tank ensures that the Boron Injection Tank is full of concentrated boric acid at all times.

Continuous BIT recirc flow was verified, no operations that would have diluted the BIT were conducted and the heat tracing was repaired within the 2 hour Tech. Spec. limit (1 hr. and 43 min.). Therefore the health and safety of the public were not affected.

3. CAUSE:

The heat tracing tapes were inoperative due to insulation failure resulting from excessive heat.

4. IMMEDIATE CORRECTIVE ACTION:

The immediate corrective action was to verify recirc flow and initiate repairs of the heat tracing.

5. SUBSEQUENT CORRECTIVE ACTION:

The defective heat tracing tape was replaced and tested within the 2 hr. time span specified by Technical Specifications.

6. ACTION TAKEN TO PREVENT RECURRENCE:

No additional actions were deemed necessary.

7. GENERIC IMPLICATIONS:

A task force has reviewed the total spectrum of the Heat Tracing system and a Design Change is being prepared as a result of the Task Force study. Long lead items are being procured.