IRC For	. 366									1	LIC	ENSE	EEVE	INT RE	PORT	(LE	R)				U.S. M	APPR	AR R	EGULAT OMB N 8/31/85	ORY CO	0104	SSION		
ACILIT	-	1	-					-			-								DOCK	ET N	MBE	R (2)			F	AGE	(3)		
	SURRY POWER STATION, UNIT NO. 1												0 1	5 (010	10	2	1810	1 0	DF	0 3								
TTLE (4		10	oo	INE	SPI	KE																							
EV	ENT DATE	(5)	-			LER	NUME	BER (6)	-		RE	PORTDA	TE (7)			C	THER	FACI	ITIES	INV	OLVE	D (8)						
MONTH	DAY	YEA	AR	YEA	R	SEC	UMB	TIAL		REVE	BER	MONTH	DAY	YEAR		F	ACILI	TYNA	MES			DO	DOCKET NUMBER(S)						
					-	1																0	15	1010	101	1	1		
0 5	2 6	8	4	8	4-0112-00					0	1							0	15	1010	101		I.						
				THIS	S REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR & ICheck one or more of											of the	follow	ing) (11)	-									
M	DOE (9)		N		20 402	(6)						20.405	c)			50	73(a)(2)(iv)				T	73	1.71(b)					
POWE	R	-			20.406(+)(1)(i)					50.36(0	1(1)			50	73(a)(2)(v)					73.71(c)								
LEVE	- 01	0 1	0		20.405(a)(1)(ii)							50.36(c)(2) 50.73(a)(2)(vii)										V	OTHER (Specify in Abstract						
					20.405	(#)(1)	(iii)			-9		50.73(1(2)(i)			50	73(.)(;	2)(viii)	(A)				36	6A)	n 1883, 1		r gem		
					20.405	(a)(1)	(iv)			13		50.73(a)(2)(iii) 50.73(a)(2)(viii)						(8)			1	110	DECI			OPT			
					20.405	(*)(1)	{ v }					50.73(a)(2)(iii) 50.73(a)(2)(x)												PECI	AL R	EP	ORI		
											L	ICENSEE	CONTAC	T FOR THIS	LER (12)	1.				_			1.1.				_		
NAME																			-	DEA	CODE	TEL	LEPHO	INE NUN	BER				
	4.		w	ILS	N.	ST	ATI	ON	MA	NA	GEF	2							1		0001								
			-								500	EACH C			DERCEURI		THIE		1	8 0		4 3	5	171-	3	11	8		
						C	OMPL	LEIE	UNE	LINE	FUR	EACH CI	JMPONE	TPAILURE	DESCHIBI	T	THIS	REPU	1 113	,	_	-							
CAUSE	SYSTEM	M COMP		ONENT MANUFAC			5	TO NPRDS					CAUSE	SYSTEM	COMPONENT		NENT	MANUFAC TURER			۴	REPORTABLE TO NPRDS							
			-					+	-			-				+					-								
			1	1 1		1	£	1						1.1	1.	h.,		1.	1.	6.5	н,	. 1		. 1					
			-		-	-		1	-					-	+ + -	1		-	+-		-	-+		-					
	1		1	1 1		1	1	1			1.3				1		11	1		i i	1								
						-	SUPP	LEME	INTA	L REP	PORT	EXPECT	ED (14)					-	-					MONTH	DAY	1	YEAR		
												T								SU	BMIS	SION				1			
YE	S fif yes, c	omp/s	te É	XPEC	ED SUE	BMISS	SION	DATE	E)			Γ	V NO						1.	0	ATE	15)		11	11		1		
ABSTRA	s IIf yes c ct /Limit	ompie to 140 On fic	M.	ay act	26, ivit	вмізз охіто 198 у s	supp sion new f	DATE DATE at at	ENTAI single	51!	5 h	expect	ED (14)	lowing	a un	it	shu d a	tdo	wn ak	fro	XPEC BMIS ATE	TED SION (15)	% p iva	MONT.	, th	e 3	1		

(9-63) LICENSEE EVI	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION												
FACILITY NAME (1)		DOCKET NUMBER (2)		LE	R NUMBE	R (6)		PAGE (3)					
			YEAR		SEQUENT	AL	REVISION		T	1			
SURRY POWER STATION, UNI	т 1	0 5 0 0 0 2 8 0	8 4	-	0 1	2	_ 0 10	0 2	OF	0	3		

Description of the Event

On May 26, 1984, at 015 hours following a unit shutdown from 100%, the Specific Activity Sample of the reactor coolant showed a peak dose equivalent I-131 level of 1.57 microcuries/cc. This exceeds the dose equivalent I-131 of \leq 1.0 microcuries/cc specified in Tech. Spec. 3.1.D.2 and is being reported in accordance with the Special reporting requirements outlined in Tech. Spec. 3.1.D.4.

28-06-01

Probable Consequences and Status of Redundant Equipment

The limitations on the specific activity of the primary coolant ensure that the resulting 2 hour doses at the site boundary will not exceed an appropriately small fraction of 10 CFR 100 limits following a postular: steam generator tube rupture. Since the dose equivalent I-131 peak was bel w the Technical Specification upper limit of 10 microcuries/cc, the reactor coolant gross activity was below the value analyzed in the FSAR for a tube rupture and 1% failed fuel. Therefore, the health and safety of the public were not affected.

Cause

The Iodine Spike was caused by known, but not specifically located, fuel element defects in the reactor core. Post shutdown conditions enhanced the release of fission products, specifically I-131. This caused an increase of the reactor coolant specific activity.

Immediate Corrective Action

The immediate corrective action was to implement the actions required by Tech. Spec. Table 4.1-2B. Specifically, the level of the dose equivalent I-131 was monitored at least once every 4 hours until the level returned to less than 1.0 microcuries/cc.

	48 - 61														EXPIRE	\$ 8/3	1/85		
FACILITY NAME (1)			1.50		0	OCKET	NUMB	ER (2)				LER	NUMBE	R (6)				PAGE	3)
										163	YEAR	SI	NUMB	ER	REV	MBER			
SURRY	POWER ST	ATION	UNIT	1	0	15	0	0 0 0	2 8	3 10	8 4	-0	11	2	- 0	10	03	OF	013
TEXT III more spece is n	equired, use addition	NAC Form	366.4 's) (17)						-1-		-1-	1_1-	<u> </u>			1-	- 10	-	
	SUPPLEME	NTAL 1	NFORMA	TION															
	The supp	lement	al inf	ormati	ion	req	uir	ed by	γТ.	S.3	.1.D	. 4 "	Spec	cial	Rep	por	t" i	s	
	included	as fo	ollows:										÷.,		14				
		Ponet	Por Por	or Uic	tor	· /.	8 h		nri	lor I	to th		tont	1					
	1.	React	OI FOW	ler nis	stor	y 4	0 110	ours	bri	LOL		ie e	vent						
			May 24	, 1984	4 -	24	hou	rs at	10	0%									
			May 25	, 1984	4 -	22	hou	rs at	t 10	0%	6-11		÷.,	l. it					
			May 26	, 1984	+ @	051	- c	Uni	t at	: 0%	IOI.	LOWI	ng 1	amp	•				
	2.	Fuel	burnup	by co	ore	reg	ion	- a:	s of	May	y 26	, 19	84.						
			1.1																
			Fuel B	latch		;	S	2/6B		30390	7 MWI	MTN/C	J						
								4C	: 3	3331	3 MWI)/MT	U						
								7A	: 3	30019	9 MWI)/MT	U						
								7B	: 3	38747	7 MWI	D/MT	U						
								8A	: 2	2811	3 MWI	D/MT	U						
								88	: 2	8/1	/ MWI)/MT	J						
			Cvcle	7 Burr	up			9		9304	4 MWI	D/MT	U						
			-,																
	3.	Prior	to th	e read	ctor	sh	utdo	own,	the	e un :	it ha	as e	stab	lis	hed	a	norm	al	
		letdo	own rat	e of l	106	gpm	•												
	4.	No De	-gassi	ng ope	erat	ion	s w	ere	perf	orme	ed.								
			0	0 1															
	5.	Durat	tion of	I-131	l Sp	ike	:												
		May 2	6 198	4 9 03	245	- R	out	ine	Samr	le .	15	88 m	tere	Cur	ies	lee			
		May 2	6. 198	4 0 05	515	- P	ost	Shu	tdow	m Sa	ample	2 -	1.18	3 mi	cro	cur	ies/	cc.	
				07	715	- P	ost	Shu	tdow	m Sa	ample	e -	1.15	5 mi	cro	cur	ies/	cc.	
				09	915	- P	ost	Shu	tdow	m Sa	ample	e - :	1.36	5 mi	cro	cur	ies/	cc.	
				11	115	- P	ost	Shut	tdow	m Sa	ample	e –	1.57	7 mi	cro	cur	ies/	cc.	
				13	300	- P	ost	Shu	tdow	m Sa	ample	e -	1.53	3 mi	cro	cur	ies/	cc.	
				15	500	- P	ost	Shut	tdow	m Sa	amp10	e -	1.39	9 mi	cro	cur	ies/	cc.	
				17	715	- P	ost	Shu	tdow	m Sa	ample	a -	1.20) mi	cro	cur	ies/	cc.	
				21	105	- P	ost	Shu	tdow	m Sa	ample	9 -	1.00) mi	cro	cur	ies/	cc.	
		May 2	27, 198	34 @ 01	100	- P	ost	Shu	tdow	m Sa	ample	e -	. 925	5 mi	cro	cur	ies/	cc.	
							0.0												
		Durat	ion ap	proxim	nate	1y	20 1	hour	5.										

POW 28-06-01

• • • •