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	VSTEM OPERARTI TTY
CLOSURE OF RHR CROSSTIE VALVE 8716B FOR MAINTENANCE JEOPARDIZES S	
DATH DAY YEAR YEAR STEAMER WONTH DAY YEAR PADILITY HAMES	DOCKET NUMBERIS
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3 1, 7 8 7 8 7 0 0 2 9 9 1 9 2 9 5 8 8	0 5 0 0 0
BORE ALTING 1 THIS REPORT IS BURNITTED FURBUANT TO THE REQUIREMENTS OF 18 CFR § (11)	
50.73(a)(2)(1)(b)	
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GTTHER (Descript in Abstract Basers and in Test, MHC Form Jacks	
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LICINGE CONTACT FOR THE LER (12)	TELEPHONE NUMBER
RICHARD M. LUCKETT, REGULATORY COMPLIANCE ENGINEER	8 0 5 5 9 5 - 7 3 5
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT 1131	
	PORTABLE O APROS
	and the second second second
BUPPLEMENTAL REPORT EXPECTED IN	82985780 WO'."- DAY YEA
VES IN VE CONCERNENTED SUBMISSION DATES	
NTRACT (18)	
On March 17, 1987, at 0625 PST, with Unit 2 in Mode 1 (Power Oper percent power, Residual Heat Removal (RHR) crosstie valve 8716B w removed from service for maintenance. This action was not consis safety analysis assumption that RHR injection into all four React (RCS) cold legs would be available, assuming the single active fa pump. The valve closure violated Technical Specification 3.5.2, one RHR pump were operable, injection flow would be provided to o legs. However, subsequent evaluations show that during an accide two RCS cold legs is sufficient to maintain cooling within design limits.	as closed and tent with the or Coolant System ilure of one RHR in that if only nly two RCS cold nt flow through
When valve 8716B was closed, both RHR pumps were operable and cap flow into all four RCS cold legs.	
Upon identification of the concern, the valve was opened and retu	rned to service.
•	the repositioning
Additional guidance has been provided to Operations personnel on or removal from service of system-related Emergency Core Cooling valves. Plant Engineering has reviewed all applicable test proce this guidance.	dures relative to

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C Form 254A		(T (LER) TEXT CONTINI	LATION	GULATORY COMMII OMB NO, 3150-0104 11/88
CILITY NAME (1)		DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)
			YEAR CASEQUENTIAL A REVERON	
	IYON UNIT 2	0 5 0 0 0 3 2 3	3 8 7 0 0 2 0 1	0 ₁ 2 _{0F} 0
CT (If more space is requ	wrad, uae additional NRC Form 3864's) (17)	<u> </u>		
I. Init	tial Conditions		•	
Unit	2 was in Mode 1 (Power Open	ration).		-
II. Desc	cription of Event			
Α.	Event:	· · ·		
-	100 percent power, Residual was closed and removed from consistent with the RHR sys injection into all four Rea be available, assuming the The closure of the crosstie in that if only one RHR pum provided to only two of the During the time that valve	m service for mainte stem safety analysis actor Coolant System single active failu e valve violates Tec mp were operable, in e four RCS cold legs 8716B was closed, b	enance. This action was s assumption that RHR m (RCS)(AB) cold legs w ure of one of the RHR p chnical Specification 3 njection flow would be s. both RHR pumps were ope	as not would pumps. 3.5.2, erable
	Valve 8716B was removed fro position indication device.	jecting flow into al om service to allow	11 four RCS cold legs. the installation of a	
,	to be removed from the value Operations personnel detern Technical Specification Tak is required by Technical Sp 3.6.3 to be operable, then to meet the associated act Operations personnel also co outage time based on the re Action a.	ve operator, making mined that since val ble 3.6-1, "Containm pecification limitin making it inoperabl ion statement. Duri determined that they equirement of Techni	the valve inoperable. lve 8716B is included i ment Isolation Valves,' ng condition for operat le required that it be ing the time it was clo y were in a 72 hour all ical Specification 3.5.	in " and tion closed osed, lowed .2,
	Upon identification of the and returned to service:	concern, RHR crosst	tie valve 8716B was ope	ened
В.	Inoperable structures, com	ponents or systems t	that contributed to the	e event:
	None			
	Dates and approximate time:	s for major occurrer	nces:	
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FACILITY NAME (1)	DOCKET NUMBER (2) LER NUMBER (6) PAGE (3)
DTADIO CAL	$\frac{\sqrt{6}}{1000} = \frac{\sqrt{6}}{1000} = \frac{\sqrt{6}}{1000$
	$\frac{1}{100} \text{ UNIT } 2 \qquad 0 5 0 0 3 2 3 8 7 0 0 2 0 1 0 3 0 0 4 0 1 0 3 0 0 4 0 0 0 0 0 0 0$
*	
x	 March 18, 1987, 1027 PST: Discovery date - RHR crossile valve 8716B opened and returned to service.
D.	Other systems or secondary functions affected:
	None
Ε.	Method of discovery:
•	Identified by Operations Management personnel familiar with the concern over closing the RHR crosstie valves, who noted that valve 8716B was closed and removed from service for maintenance.
F.	Operator actions:
	None required.
G.	Safety system responses:
	Not applicable.
III.	Cause of Event:
Α.	Immediate cause:
	Plant personnel closed RHR crosstie valve 8716B and removed it from service for maintenance.
В.	Root cause:
¥.	Information describing the impact of closing a crosstie valve on RHR system operability was not made available to plant operators and personnel involved in equipment clearance activities in a timely manner.
•	A contributing factor to this event was the confusion of the Operations personnel regarding the inclusion of valve 8716B, as a containment isolation valve, in Technical Specification Table 3.6-1. The table should include only those containment isolation valves required to ensure that the containment atmosphere will be isolated from the outside environment in the event of a release of radioactive material to the containment atmosphere or pressurization of the containment. However, the NRC staff reviewing the Technical Specifications required this table to include all valves that are on containment piping penetrations, even though many of them have safety-related functions that demand that they not isolate.

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C Form 344	۱. ۱.		IT REPORT (LER)	TEXT CONTINU		APPROV	R REGULATORY VED OMB NO, 31 8: 8/31/88	
ILITY NAN	AE (1)	»	DOCKET NU		LER NUMBER			AGE (3)
			E		YEAR SU SEQUENT			Π
		NYON UNIT 2 ,	0 5 0	0 0 0 3 2 3	3 8 7 0 0 I	2_0	0,10,4	оғ 0
(If more sp	30C0 4 /0Q	gured, use addressel NRC Form 386A's) (17)					<u></u>	1
,		PG&E is pursuing a the Technical Speci		ent to correc	t or remove;	this ta	ble from	1
IV.	Ana]	lysis of Event:	,					
	that cros cold sinc cons	RHR system safety and t injection be availal sstie valve 8716B alou d legs, since both RHI ce the RHR system safe sequences or implicat	ble to all four one would not ha IR pumps were of ety analysis as fions resulted f	r RCS cold le ave prevented perable durin ssumption was from this eve	egs. The clos d injection to ng this event s met, no advo ent.	sure of o all f . Ther erse sa	FRHR Four RCS refore, afety	
	assu West exce of t	a result of this even umption that requires tinghouse reevaluated eption of the rod ejec the reevaluations show s is sufficient to ma	RHR injection all affected l ection accident ow that during a	be available LOCA and non- , which was r an accident f	e to all four -LOCA transie reevaluated by flow through	RCS co nts wit y PG&E. two RCS	old legs. ch the Result S co ld	1
۷.	Corr	rective Actions:					•	•
t		n identification of t urned to service.	he concern, RH	R crosstie va	llve 8716B wa	s opene	d and	
	repo syst	itional guidance has ositioning or removal tem-related rather the licable test procedure	from service (an train-relate	of those ECCS ed. Plant En	S valves that ngineering has	are	wed all	
VI.	Addi	itional Information:						
	Α.	Failed components:					v	
		None						
	Β.	Previous LERs on si	milar events:					
		None						
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