03/31/2006

Event# 42459 Power Reactor

Site: DIABLO CANYON Notification Date / Time: 03/31/2006 16:01 (EST) Event Date / Time: 03/31/2006 11:50 (PST)

Reactor Type: [1] W-4-LP,[2] W-4-LP Last Modification: 03/31/2006

Region: 4

State: CA

Containment Type: DRY AMB DRY AMB

Unit:

Notifications: DALE POWERS R4 NRC Notified by: DAVE TAGGERT **OMID TABATABA!** NRR **HQ Ops Officer: JEFF ROTTON**

Emergency Class: NON EMERGENCY

10 CFR Section:

21.21 UNSPECIFIED PARAGRAPH

2

Unit	Scram Code	RX Crit	Init Power	Initial RX Mode	Curr Power	Current RX Mode
2	N	Yes	100	Power Operation	100	Power Operation

DEFECTIVE RHR CHECK VALVE

"In accordance with 10 CFR 21.21(d)(1), Pacific Gas and Electric (PG&E) is hereby notifying the NRC of a defective component received from Flowserve, Flow Control Division, in Raleigh, NC, but not installed at Diablo Canyon Power Plant (DCPP). The component is an 8-inch tilting disk check valve that was procured for installation in the Residual Heat Removal (RHR) System during the Unit 2 refueling outage (2R13) scheduled to begin on 04/17/06.

"On 03/02/06, the defect was identified at DCPP during post-receipt bench testing and involved incorrect disc dimensions that caused the disc to stick in the valve bonnet (i.e., in the open position). This would have prevented the valve from performing its intended safety function of closing to prevent pump-to-pump interaction when both RHR pumps are running. (These check valves were installed in response to NRC Bulletin 88-04, 'Potential Safety Related Pump Loss.') Failure of this check valve, had it been installed, could have resulted in the loss of one RHR train on Unit 2, which could impact the ability to shut down the reactor and maintain it in a safe shutdown condition.

"On 03/08/06, PG&E notified Flowserve of the defect via Supplier Audit Finding Report #060670010 and requested corrective actions be taken.

"On 03/13/06, Flowserve concluded that the defect was caused by disc design error and test procedure error.

"On 03/16/06, Flowserve initiated Quality Problem Corrective Action Plan #169, in which they concluded a Part 21 evaluation was not required.

"On 03/31/06, PG&E Vice President, Diablo Canyon Operations and Station Director, [deleted], determined that the defect met 10 CFR 21.21 reporting requirements.

IE19

ì

Power Reactor Event # 42459

"PG&E initiated purchase of the 600 lb, stainless steel check valve on 06/02/05, and does not know whether any others have been manufactured by Flowserve. The valve was manufactured in accordance with Vendor Assembly Drawing W9023267 and ASME Section III, Subsection NC, 1989 Edition.

"PG&E subsequently repaired the check valve in accordance with instructions provided in a Flowserve letter to PG&E, dated 03/16/06. The valve has passed inspection and bench testing and will be installed during 2R13."

The licensee notified the NRC Resident Inspector.

NRC FORM 361	•							U.S. NU	CLEA		TORY COM	
(12-2000)										OP	ERATIONS (SENTER
				_	E 4 6 7 6 B B		_				EN#	
					EACTOR P					112	و المال المال	,
					TIFICATION					42	-7777	
NRC OPERATION TELEI [2"] 301-415-0550 and [3	<u>~] 301-41</u>	5-055	3		01-816-5100 OR 8 Licensees wh	o main	tain the	ir own ETS a	[1"] (e pro	301-951-055 vided these	0 or 800-449 teler hone nu	-3694°. mbers.
NOTIFICATION TIME 13:0/PST			ORGANIZ Power P		UNIT 2		E OF C	CALLER			ALL BACK# 15-545-4201	
EVENT TIME & ZONE 11:50 PST	EVENT 03/31/2		,		POWER/MODE 100% / Mode 1	BEFO	RE			POWER/MO		
EVENT CLAS				1-Hr. N	on-Emergency 10 (CFR 50.	72(b)(1)	□ (v)(A)		S/D Capabilit		AINA
GENERAL EMERGENCY		EN/AAE	c		TS Deviation		ADE			Capability	·	AINB
SITE AREA EMERGENCY		TAAE			Ion-Emergency 10 (CFR 50.				rol of Rad Rel		AINC
☐ ALERT		E/AAE		☐ (iv)(a)	TS Required S/D ECCS Discharge to) RCS	ASH			dent Mitigation te Mecical	1	AIND
50.72 NON-EMERGENCY				(iv)(B)	RPS Actuation (sci		ARP			Comm/Asmt/	Resp	ACOM
PHYSICAL SECURITY (73		ממכ		☐ (xi)	Offsite Notification		APRI	Ε €	0-Day	Optional 10 C	FR £0.73(a)(1	
MATERIAL/EXPOSURE		??			on-Emergency 10 C						ystem Actuation	
☐ FITNESS FOR DUTY ☑ OTHER UILSPECIFIED RE	OMT (se			☐(ii)XA) ☐ (ii)XB)	Degraded Conditio Unanalyzed Condit		ADEC				irements (Ider	
INFORMATION ONLY	NN (SE			(ivXA)	Specified System A		AUN/ n AESF		Othe:	l(d)(1) r		NONE
					DESCRIPTION		7.00.			<u> </u>		
Include: Systems affected, actuations and their initiating signals, causes, effect of event on plant, actions taken or planned, etc. (Continue on back) In accordance with 10 CFR 21.21(d)(1), Pacific Gas and Electric (PG&E) is hereby notifying the NRC of a defective component received from Flowserve, Flow Control Division, in Raleigh, NC, but not installed at Diablo Canyon Power Plant (DCPP). The component is an 8-inch tilting disk check valve that was procured for installation in the Residual Heat Removal (RHR) System during the Unit 2 refueling outage (2R13) scheduled to begin on 04/17/06. On 03/02/06, the defect was identified at DCPP during post-receipt bench testing and involved incorrect disc dimensions that caused the disc to stick in the valve bonnet (i.e., in the open position). This would have prevented the valve from performing its intended safety function of closing to prevent pump-to-pump interaction when both RHR pumps are running. [These check valves were installed in response to NRC Bulletin 88-04, "Potential Safety- Related Pump Loss."] Failure of this check valve, had it been installed, could have resulted in the loss of one RHR train on Unit 2, which could impact the ability to shut down the reactor and maintain it in a safe shutdown condition. On 03/08/06, PG&E notified Flowserve of the defect via Supplier Audit Finding Report #060670010 and requested corrective actions be taken. On 03/13/36, Flowserve concluded that the defect was caused by disc design error and test procedure error. On 03/16/36, Flowserve initiated Quality Problem Corrective Action Plan #169, in which they concluded a Part 21 evaluation was not required. On 03/31/36, PG&E Vice President, Diablo Canyon Operations and Station Director, James Becker, determined that the defect met 10 CFR 21.21 reporting requirements.												
PG&E initiated purchs others have been mans Drawing W9023267 a PG&E subsequently re PG&E, dated 03/16/06 Dave Taggart	ufacture nd ASM epaired 5. The	d by IE So the c valve	Flowser ection II heck val	ve. The I, Subsetve in a	e valve was madection NC, 198 accordance with	anufa 19 Edi 1 instr	ctured ition. uction	l in accorda as provided	ince in a	with Ven	dor Assemi	bly
Manager, Quality Veri Diablo Canyon Power P.O. Box 56 Avila Beach, CA 934	Plant 24											
NOTIFICATIONS NRC RESIDENT	YES	NO	WILL BE		HING UNUSUAL RSTOOD?	OR NO	TC	☐ YES (Ex	olain	above)	⊠ NO	
STATE(s) LOCAL		X X		DID A	LL SYSTEMS FU JIRED?	NCTIO	N AS	⊠ YES			□ №	
OTHER GOV AGENCIES		Ø			OF OPERATION		ESTIM.	ATED REST	ART	ADDITION	AL INFO ON	BACK
MEDIA/PREBS RELEASE		Ø			CORRECTED		DATE			YES	⊠ NO	