

Log # TXX-90311 File # 10200 905.4

Ref. # 10CFR50.73 10CFR50.73(a)(2)(i)

William J. Cahill, Jr. Executive Vice President September 24, 1990

L. S. Nuclear Regulatory Commission

Attn: Document Control Desk Washington, D. C. 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION

**DOCKET NO. 50-445** 

OPERATION PROHIBITED BY TECHNICAL SPECIFICATION

LICENSEE EVENT REPORT 90-724-00

#### Gentlemen:

Enclosed is Licensee Event Report 90-024-00 for Comanche Peak Steam Electric Station Unit 1, "Failure to Comply With Technical Specification Action Statement Due to Inadequate Post Trip Review."

Sincerely,

William J. Cahill, Jr.

JAA/daj

Enclosure

c - Mr. R. D. Martin, Region IV Resident Inspectors, CPSES (3)

9010010192 90000445 PDR ADOCK 04000445 JETH I

LICENSEE EVENT REPORT (LER)							ESTIMAT COLLEC BURDEN BRANCH DC. 205	TION RE ESTIM (P-530).	DEN PER QUEST: ATE TO U.S. NUC TO THE	APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 I PER RESPONSE TO COMPLY WITH THIS INFORMATION EST: 50.0 HRS. FORWARD COMMENTS REGARDING TO THE RECORDS AND REPORTS MANAGEMENT INUCLEAR REGULATORY COMMISSION, WASHINGTON, THE PAPERWORK REDUCTION PROJECT (3150-0104). MENT AND BUDGET, WASHINGTON, DC. 20503.															
						The part of the second second second	Number (2) Page (3) Page (3) 1 OF 10 16																		
Title (4)	OM	AN	CHE	L	E	A	<u>.</u>	<u></u>	M	II	1_	0 111	CAU.	EE T	CATION						51		OF	77	16
1840 (4)												LIREN		HE IC	SATISFY	TECH	NICAL	SPEC	IFICATI	ON					
Event	Date (5)		PAEL	7		RN							port Da	ie (7)			THE RESERVE OF THE PERSON NAMED IN	ther Facil	ities Involved						
Month	Day	Year	Yes	,			umb		8	ZZ	vision	Month	Day	Year		Facility Na	rries		Docket 0 1	7.27	01	01	01	1	1
018	214	910		0	1	01	2	14	-		10	110	211	910	(Check one or m	N/A			01	51	01	01	01		1
Power Level (10)	11	0.10	1	20.4	05(a 05(a 05(a	9(1)( 9(1)( 9(1)( 9(1)( 9(1)(	(id) (iii) (iv)			X	50.73 50.73	6(c)(1) 6(c)(2) 8(a)(2)(i) 8(a)(2)(ii) 3(a)(2)(iii			50.73(a)(2)( 50.73(a)(2)( 50.73(a)(2)( 50.73(a)(2)( 50.73(a)(2)(	(vii) (viii) (A) (viii) (B) (x)		73.7 Oth	1(c) or (Specify in NRC Form	n Abst m 366	rad bek	ow an	d in Tex	ι,	
Name							-			-			License	e Contact	Fur This LER (1	5)			Tele	phone	Numbe	Dr			
G. F	. M	cGl	EE.											Name of the last	COMPL		- 8	-	7 8 î	91	71	=1	51	41	717
Cause	Syste		Comp	000	nt	T-	Man	ulac	tura		Rec	ortable	e Line F	or Each C	Cause	System	1	ponent	Manufac	cturer		porte			
Cause	10,500	-				+	-			-	Tol	NEROS	-			-	-		-		10	NPR	DS .		
	11	1	11		L	1	1	1	_							<u> </u>	$\perp$		$\perp \perp \perp$		4				
	1		11		1		1	1	1							11	1	11	111	1					
☐Yes (	If yes, c	omplet	е Ехрек	ted	Sub	miss	ion	Date	)			Supplent N		port Expe	cted (14)				Expecter Submissi Date (10	ion	Mont	h	Day	1	Year

On August 24, 1990, Comanche Peak Steam Electric Station Unit 1 was in Mode 1, Power Operations, with Reactor Power at 100 percent. While preparing to perform surveillance testing on contamment purge and hydrogen purge isolation valves, Test Department personnel discovered that testing activities were not being performed on a STAGGERED TEST BASIS as specified by the associated Technical Specification. The event was caused by personnel error during initial surveillance program development. The individual responsible for inputting data to the selection of the initial surveillance program development. Corrective actions included testing, program wew, and procedural enhancement.

LICENSEE TEXT	BURD BRANG DC. 20	EN E	STIA -530) AND		PIRES PONS D HRS E REC LR REC	FORWAR CORDS AN BULATORY ORK REDU	PLY WITH TO COMME COMMISS CTION PR	ENTS MA RTS MA HON, WA DUECT	EGARDING NAGEMENT ISHINGTON, (3150-0104).			
Facility Name (1)	Docket Number (2)	1		LEF	Number (6)			Page (3)				
		Year			Sequential Number		Revision Number					
COMANCHE PEAK -	UNIT 1 015101010141415	910	) -	10	1214	Ŀ	010	012	OF	016		

### I. DESCRIPTION OF THE REPORTABLE EVENT

### A. REPORTABLE EVENT CLASSIFICATION

Any operation prohibited by the plant's Technical Specifications.

### B. PLANT OPERATING CONDITIONS BEFORE THE EVENT

On August 24, 1990, just prior to 1237 hours CDT, Comanche Peak Steam Electric Station (CPSES) Unit 1 was in Mode 1, Fower Operations, with reactor power at approximately 100 percent.

# C. STATUS OF STRUCTURES, SYSTEMS, OR COMPONENTS THAT WERE INOPERABLE AT THE START OF THE EVENT AND THAT CONTRIBUTED TO THE EVENT

There were no inoperable structures, systems or components that contributed to the event.

### D. NARRATIVE SUMMARY OF THE EVENT, INCLUDING DATES AND APPROXIMATE TIMES

On August 24, 1990, prior to event discovery, a test engineer (utility, non-licensed) was preparing to perform surveillance testing on containment purge and hydrogen purge isolation valves (EIIS:(BB)(VA)(ISV)) to satisfy Technical Specification Surveillance Requirement 4.6.1.7.2. While reviewing associated documents prior to performing the test, the test engineer made the following observations:

- The Technical Specification requires the surveillance to be performed at least once per 184 days on a STAGGERED TEST BASIS, as defined by Technical Specification Definition 1.34.
- The surveillance test procedure did not indicate this test is performed on a STAGGERED TEST BASIS.

NRC FORM 366A

U.S. NUCLEAR REGULATORY COMMISSION

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92

ESTIMATED BURDEN PER RECPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMP (1) REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPC. MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC. 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104). OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC. 20503.

Facility Name (1)	Docket Number (2)	-		LER Number (6)				age (3)	
	<b>第二章 医</b> 克尔曼氏病	Year		Sequential Number		Revision Number		100	
COMANCHE PEAK - UNIT 1	015101010141415	910	-	01214	-	010	013	OF	016

- The Surveillance Work Orders (SWOs) specified a 6 month frequency for this
  activity and had no indication this test is performed on a STAGGERED TEST
  BASIS.
- The Managed Maintenance Computer Program (MMCP) surveillance scheduling system contained one database entry with a 6 month frequency to schedule this activity. This database entry had no indication this test is performed on a STAGGERED TEST BASIS.
- Approximately 5 1/2 months had passed since all of the valves had been previously tested together on previous SWO with no STAGGERED TEST BASIS interval.

The test engineer then initiated discussion with other plant personnel (utility and contractor, non-licensed) to determine the applicability of the STAGGERED TEST BASIS definition to the testing of these containment isolation valves. At approximately 1237 CDT, it was concluded that the testing had not been scheduled so as to satisfy the STAGGERED TEST BASIS requirement.

### E. THE METHOD OF DISCOVERY OF EACH COMPONENT OR SYSTEM FAILURE OR PROCEDURAL OR PERSONNEL ERROR

While reviewing Technical Specifications Surveillance Requirement 4.6.1.7.2, prior to testing, the test engineer noted the STAGGERED TEST BASIS requirement. After inquiring about the applicability of the STAGGERED TEST BASIS definition to the testing of these containment penetration (EIIS:(BB)(VA)(PEN)) isolation valves, plant personnel realized the valves had not been tested at the proper intervals.

### II. COMPONENT OR SYSTEM FAILURES

### A. FAILED COMPONENT INFORMATION

Not applicable - there were no component failures associated with this event.

NRC FORM 366A

U.S. NUCLEAR REQULATORY COMMISSION

APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 RDEN PER RESPONSE TO COMPLY W

### LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC. 20556, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104). OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC. 20503.

Facility Name (1)	Docket Number (2)	<del>                                     </del>		LER Number (6)			·	'age (3)	
		Year		Sequential Number	Nurricon				
COMANCHE PEAK - UNIT 1	015101010141415	910	-	01214	-	010	014	OF	01

### B. FAILURE MODE, MECHANISM AND EFFECT OF EACH FAILED COMPONENT

Not applicable - there were no component failures associated with this event.

### C. CAUSE OF EACH COMPONENT OR SYSTEM FAILURE

Not applicable - there were no component failures associated with this event.

### D. SYSTEMS OR SECONDARY FUNCTIONS THAT WERE AFFECTED BY FAILURE OF COMPONENTS WITH MULTIPLE FUNCTIONS

Not applicable - there were no component failures associated with this event.

### III. ANALYSIS OF THE EVENT

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

### A. SAFETY SYSTEM RESPONSES THAT OCCURRED

Not applicable - no safety system responses associated with this event.

#### **B. DURATION OF SAFETY SYSTEM INOPERABILITY**

Not applicable - there were no safety systems rendered inoperable due to a failure.

#### C. SAFETY CONSEQUENCES AND IMPLICATIONS OF THE EVENT

The containment purge and hydrogen purge isolation valves are designed to limit the leakage of radioactive material from containment (EIIS:(NH)) during normal operation and accident conditions. General Design Criteria 56 of 10CFR50, Appendix A, requires that two isolation valves in series be provided to assure that the isolation function is maintained in the event of any single active failure. Surveillance testing of those valves is performed to demonstrate operability of the components, ensuring that the boundary doses specified in 10CFR100 are not exceeded. Stangered testing is performed to reduce the probability of system failure due to a common cause, and failure to perform the required testing on a staggered basis increases the length of time that a common cause system failure could have gone

	EVENT REPORT (LER) CONTINUATION	APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92 ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATIO COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGIRDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMEN BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTO DC. 20565, AND TO THE PAPERWORK REDUCTION PROJECT (3150-010 OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC. 20503.
Facility Name (1)	Docket Number (2)	LER Number (6) Page (3)
		Year Sequential Pyriston Number
COMANCHE PEAK -	UNIT 1 0 1 5 1 0 1 0 1 0 1 4 1 4 1	4 5 9 0 - 0 2 4 - 0 0 0 5 OF 0 0

undetected. The successful testing of the subject penetrations following discovery of the condition demonstrates that the penetrations were at all times capable of performing their intended safety function of limiting radioactive emissions from containment. It is concluded that the short term failure to satisfy the STAGGERED TEST BASIS requirement associated with testing of these valves did not adversely affect the safe operation of CPSES Unit 1 or the health and safety of the public.

### IV. CAUSE OF THE EVENT

fext (# more space is required, .... additional NRC Form 366A's) (17)

### A. IMMEDIATE CAUSE

STAGGERED TEST BASIS requirements were not incorporated into the surveillance scheduling methodology for this activity.

### B. ROOT CAUSE

The root cause of the event was personnel error which led to omission of the STAGGERED TEST BASIS requirement.

The station administrative procedure controlling the surveillance test program requires that each organization responsible for performing surveillance activities develop implementing procedures and incorporate methods for scheduling and statusing all surveillances for which they have responsibility. Plant personnel responsible for establishing the testing interval for this surveillance overlooked the STAGGERED TEST BASIS requirement during initial test and scheduling development.

### V. CORRECTIVE ACTIONS

#### A. IMMEDIATE

The test engineer documented the condition in accordance with station procedures and reported the status of the surveillance equirement to the Shift Supervisor (utility, licensed). It was determined that the intent of the STB requirement could be satisfied by testing the inboard and outboard isolation valves of one containment purge

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

NRC FORM 386A	ENSEE EVENT		ESTIMA COLLEI BURDE BRANC DC 20	CTION IN ES IH (P-1	STIMA 530), I	DEN PER FOUEST: TE TO TUS. NUCL	EXPIRESPO 50.0 H THE R LEAR F	NSE NSE RS. REG WO		D COMME D REPOR COMMISS CTION PRO	INTS RITS MAI	EGARDING NAGEMENT ISHINGTON (3150-0104)		
Facility Name (1)		Docket N *ber (2)	Vani			Number (6)		-	Revision		Page (3)			
			Year	100		Number			Number					
COMANCHE	PEAK - UNIT 1	01510101 - 15	910	-	0	121	4	-	010	016	OF	016		

penetration and one hydrogen purge penetration at the subinterval. Compliance with the STAGGERED TEST BASIS requirement was restored by successful testing of two of the four containment and hydrogen purge penetrations as specified by the Technical Specification action requirements.

### B. ACTIONS TO PREVENT RECURRENCE

A satisfactory review was performed of all surveillance activities with a STAGGERED TEST BASIS requirement to ensure that the requirement is acknowledged and implemented in activity scheduling. The administrative procedure controlling the surveillance program is being enhanced to clarify the STAGGERED TEST BASIS requirement and provide formal guidance ensuring consistent site wide scheduling of affected activities. The test procedure satisfying the surveillance requirement of Technical Specification 4.6.1.7.2 will be revised to test one isolation valve associated with each containment and hydrogen purge penetration at the first subinterval, and the other valve(s) in the second subinterval. Although several methods can be used in establishing the staggered test subinterval, the method above is felt to best ensure that the chances of a common mode failure are reduced.

#### VI. PREVIOUS SIMILAR EVENTS

LER 90-005 and LER 90-010 describe reportable events resulting from failure to perform Technical Specification surveillance activities. However, the details of the events described in those LERs and the resultant conclude actions are sufficiently different from those of this LER to conclude that the previous corrective actions could not be expected to have prevented the scheduling error described in this report.



CPSES-9021535 September 20, 1990

No Response Required

TO:

J. W. Beck - ST 24

SUBJECT:

LICENSEE EVENT REPORT 50-445/90-024-00

PERSONNEL ERROR RESULTING IN FAILURE TO SATISFY

TECHNICAL SPECIFICATION STAGGERED TEST BASIS REQUIREMENT

Attached is Licensee Event Report (LER) 50-445/90-024-00 which has been prepared in accordance with 10CFR50.73(d). This LER has been reviewed by 3ORC (Meeting No. 90-157) and recommended for approval. Additionally, I have reviewed and approved the LER and find it acceptable for submittal to the NRC (required by September 24, 1990).

If you should have any questions, please contact Gary McGee at extension 5477.

A B. Scott, Jr. O10

GGD:jcc

Attachment

cc:

œ

R. D. Walker

G. P. McGee

E06

ST-24

006