

Log # TXX-93382 File # 10200 Ref. # Voluntary

December 17, 1993

William J. Cahill, Jr. Group Vice President

U. S. Nuclear Regulatory Commission Attn: Document Control Desk Washington, DC 20555

SUBJECT: COMANCHE PEAK STEAM ELECTRIC STATION (CPSES) - UNIT 1 DOCKET NO. 50-445 REPORT OF EVENT WITH GENERIC INTEREST LICENSEE EVENT REPORT 93-009-00

Gentlemen:

Enclosed is Licensee Event Report (LER) 93-009-00 for Comanche Peak Steam Electric Station Unit 1, "Personnel Errors Leading to Refueling Cavity Water Transients."

Sincerely,

William J. Cahill, Jr.

NSH:tg Enclosure

cc: Mr. J. L. Milhoan, Region IV Mr. L. A. Yandell, Region IV Resident Inspectors, CPSES

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Enclosure 1	to IXX-9	3382	U.S. MUCLEAU	REGULATORY	COMMISSIO		A 1999	OVED OMB 1	0.3150-	0104		
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COMANCHE	PEAK-UN	IT 1				0	50000	4 4 5	1		OF	11
PERSONNEL	ERRORS	LEADING T	O REFUELIN	NG CAVIT	y wate	R TRA	NSIENTS					
Event Date (6)		TH Number (6)	Repo	nt Date (7)			Other F	acilities Involved	18)			
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Yes it yes, co	mplete Expected	Submission Date!		0				Submitterrom Date (15)				1
Event A		tober 26,	1993, Co		eak St		lectric S	tation	(CPSES	5) Un	it	

I was in its third refueling outage. The Unit 1 core was off-loaded into the Fuel Building spent fuel pool. A removable lift gate was installed between the reactor vessel area and the fuel transfer area of the refueling cavity to facilitate the drain down of the reactor vessel area of the refueling cavity. The refueling cavity lift gate has a single inflatable seal to keep it watertight. While transferring the seal supply from Service Air to nitrogen supply, the lift gate seal deflated allowing approximately 18-20,000 gallons of water to flow past the refueling cavity lift gate. The water flowed into the reactor vessel and out the #1 and #4 steam generator hot and cold manways into the 808' elevation of the containment building.

Event B - At 11:57 p.m. that evening, while attempting to drain down the fuel transfer area of the refueling cavity, water was inadvertently sluiced through the drain piping into the reactor vessel area of the refueling cavity causing the reactor vessel to refill. This caused approximately 4,000 gallons of water to spill out of the #1 and #4 SG manways.

This is a voluntary report based on generic industry interest.

NRC FORM	366A		U.S. NUCLEAR REGULATORY COMMISSIO	APPROVED OMB NO.3150-0104 EXPIRES: 4/30/92						
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		EAK-UNIT 1	015101010141415	913 -	Number 0 0 9		0102	2	OF	11
	A.	REPORTABLE EVENT								
Ι.		required, use additional NRC Form SE								
			ent Report is submitt	ed as a v	oluntary	rep	ort.			
	Β.	PLANT OPERATING CONDITIONS PRIOR TO THE EVENT								
		On October 26, 1993, Comanche Peak Steam Electric Station (CPSES) Unit 1 was in a refueling outage. The core was off-loaded into the spent fuel pool in the Fuel Building and the Fuel Building was isolated from Containment.								
	С.	STATUS OF STRUCTURES, SYSTEMS, OR COMPONENTS THAT WERE INOPERABLE AT THE START OF THE EVENT AND THAT CONTRIBUTED TO THE EVENT								
			aluation concluded th ems or components tha							
	D.	NARRATIVE SUMMARY OF THE EVENT, INCLUDING DATES AND APPROXIMATE TIMES								
		EVENT A								

Comanche Peak Unit 1 was in its third refueling outage (1RF03). The Unit 1 core was completely off-loaded into the fuel building spent fuel pool, the upper internals had been placed back into the reactor vessel and a single seal removable lift gate was installed between the refueling cavity and the fuel transfer area. The lift gate at CPSES uses an inflatable seal to remain watertight, allowing the reactor vessel area of the reactor cavity to be drained while the fuel transfer area remained flooded. The fuel transfer gate valve at the containment boundary was closed, isolating Containment from the Fuel Building.

On October 23, 1993 following core offload, the refueling cavity was filled to approximately the 858' elevation (24 feet above the reactor vessel flange). The refueling plan included maintaining the fuel transfer area of the refueling cavity flooded while draining the reactor vessel area of the refueling cavity. The lift gate was installed and pressure to the inflatable seal was supplied by a local nitrogen bottle. After the connection of the nitrogen supply by the Field Support Supervisor (FSS) (licensed, utility) a pressurization leak was observed at or near the seal connection. The FSS changed out both the seal and

NRC FORM 366A		U.S. NUCLEAR REQULATORY COMMIS	SION APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92				
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COMANCHE P	EAK-UNIT 1 required use additional NRC Fai	0 5 0 0 0 4 4 5	Number Number	11			
	had successful	in an attempt to correctly stopped the leak. he observed had stopp	ect the leak. He assumed his action The FSS reported to the Control Roo ed.)S)M			
	commenced. (1 evolution, the the FSS monito than experiend logged that a Supervisor (1	NOTE: This was complete e Auxiliary Operators ored the nitrogen use ced in the past but wa leak on the lift gate icensed, utility) info	ea of the refueling cavity was ed 24 hours later.) During this (AOs) (non-licensed, contractor) and and noted that the usage was greater s manageable. The Control Room staf seal still existed. The Shift rmed the Duty Manager (non-licensed, quested Engineering to evaluate the	f			
	drain down of the engineerin in the past, w	the reactor vessel ar ng evaluation and that	, utility) decided to continue the ea of the refueling cavity based on the nitrogen usage, while higher th trollable rate) and that an adequate e available.				
	Air. This wa amount of nit containment. (approximatel) connection wa This configura Potential los supply hose. observed from	s to provide a stable rogen bottles needed to Service air was suppl y 40 feet away) to a r s made to the regulato ation did not provide s of pressure was aver During this particula the filled section of	made to supply the seal from Service pressurization source and minimize to be brought into and out of egulator set at 35 psig. The r without the use of a quick connect backflow protection through the hose ted by the operator by kinking the r evolution, no water leakage was the refueling cavity to the partial transfer to Service Air.	he			
	scheduled to l containment to containment po was instructed back to the n in the bottle	be transferred back to o be isolated for Loca enetrations. The FSS d to transfer the pres itrogen bottles. Afte , the seal supply hose	ion supply to the lift gate seal was nitrogen to allow the Service Air t 1 Leak Rate Testing (LLRT) of was inside containment at the time a surization source from Service Air r verifying adequate nitrogen pressu was transferred to the nitrogen imately 20 to 30 seconds because the	ind Ire			

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COMANCHE PI	large amount of transferred the Service Air be the area as rec water (18,000 t the refueling of vessel level in core plate and System (RCS) th time preparation EVENT B On October 26, drain system wa of the refueling informed the Se vessel level wa plates which is Operator immedid drain in an att Auxiliary Opera valves 1SF-0025 draindown. Rea the Unit Superv utility) did no 0025 at the sam cavity lift gat primary side of generators 1 an realignment of vessel back dow	015101010141415 water leaking past t e pressurization supplieving that the nitro juested by Radiation F to 20,000 gallons) ent cavity prior to the line dication increased fr a large amount of wat brough two open Steam ons were underway for 1993 at approximately is aligned by the oper ing cavity. The Unit 1 enter Reactor Operator is increasing (approxi s 20 inches above the lately went to the app cempt to stop the reac itor (non-licensed, ut i and 1SF-0026, which riew of the work instru- risor (licensed, utili of recognize that oper me time would align a te and reflood the reac ithe steam generators of 4. After valves 15 the system was perfor- in to 55 inches above er entered the reactor	he lift gate y for the lip gen source with rotection. ered into the ft gate reserved om 53 inches er drained of Generator (SI SG tube eddy (11:57 p.m. ators to dra Reactor Ope (1icensed, mately 75 in previous lever or vessel with ility) was d were previou uctions and ty) and Reac ing both val sluice path ictor vessel. and ran out F-0025 and 1 med to pump the core pla	ft gate s as inadec Approxima e reactor aling. 1 to 23.2 ut of the G) manway current () the ref in the fu rator (1) utility) ches above el). The cedure to ater leve ispatched sly opene procedure tor Opera ves ISF-(around the The wate of the react the react te. Appr	seal back quate. He tely 9 fe vessel a he reactor inches ab e Reactor ys. At th testing. fueling ca lel transf icensed, u that the ve the cor e Unit 1 R o secure t e that the ve the cor e Unit 1 R o secure t e increas i to close ed for the es indicat itor (lice 0026 and 1 he refueli er refille nanways of vere close tor cavity roximately	tely to left et of rea of r ove th Coolan e same vity er are tility reacto e eactor he eactor he d tha nsed, SF- ng d the steam d, and 4,000	a)	
	either event.	ontaminated water rele The spilled water on ne shoe contaminations ries.	the loop room	m floors	(in Event	A)		

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

For the first event the Field Support Supervisor (licensed, utility) heard water running and looked into the reactor vessel area of the refueling cavity to discover the water leaking past the lift gate seal. For the second event the reactor operator (licensed, utility) noted that the level in the reactor vessel was rising. Additionally, it was reported to the control room staff that water was running out of the SGs 1 and 4 from the respective manways.

II. COMPONENT OR SYSTEM FAILURES

A. FAILURE MODE, MECHANISM, AND EFFECTS OF EACH FAILED COMPONENT

Not applicable - no component or system failures have been noted.

B. DURATION OF SAFETY SYSTEM TRAIN INOPERABILITY

Not applicable - there were no safety systems which were rendered inoperable due to this event.

C. SAFETY CONSEQUENCES AND IMPLICATIONS

The functions of the lift gate and reactor cavity drain valves are to isolate the fuel transfer area from the reactor vessel area of the refueling cavity as required.

At the time of both events, the core was fully off-loaded into the Spent Fuel Pool No. 1 in the fuel building. The spent fuel was isolated from containment by a closed fuel transfer tube gate valve, water in the fuel building transfer canal and the pool's swing gate closed. There was no fuel (new or spent) or irradiated components stored in the fuel transfer area of the refueling cavity.

The refueling cavity lift gate is Nuclear Safety Related. Its safety related function is to isolate the fuel transfer area of the reactor cavity from the reactor vessel area of the refueling cavity if spent fuel is present in the fuel transfer area of the reactor cavity and the reactor vessel area of the refueling cavity is drained. The fuel transfer area of the reactor cavity has a fuel storage rack for interim storage of new or spent fuel.

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At the time of the event, the refueling cavity lift gate was in use to contain approximately 70,000 gallons of refueling water in the fuel transfer area of the refueling cavity in lieu of draining. The function of the gate was to isolate the refueling water in the fuel transfer area of the refueling cavity from the Reactor Coolant System which was drained down for maintenance activities. Thus, the function of the gate at the time was Non-Nuclear Safety Related.

Valve 1SF-0026 is the lower internals storage area of the Refueling Cavity to Reactor Coolant Drain Tank Pump suction isolation valve. It is a 4 inch, Nuclear Safety Related, diaphragm valve, located in parallel with valve 1SF-0025. Valve (1SF-0025) is the fuel transfer area of the refueling cavity to Reactor Coolant Drain Tank pump suction isolation valve. Its safety related function is to isolate the refueling cavity when flooded for fuel handling.

At the time of the second event, valve 1SF-0026 was closed to retain approximately 44,000 gallons of water in the Refueling Cavity below the reactor vessel flange elevation. The function of the valve at the time was Non-Nuclear Safety Related. The applicable function of the valve was to isolate the drain system from the Refueling Cavity and RCS.

Neither event caused any personnel injury or significant contamination. Several minor shoe and equipment contaminations did occur in the first event.

If new fuel had been stored in the interim fuel storage racks in the fuel transfer area of the refueling cavity as was done during the second Unit 1 refueling outage (1RF02), the consequences of the events would not have been different.

If a significant number of irradiated components (e.g., control rods, inserts, etc.) had been present, dose rates at elevation 860' (the refueling operations level) still would have been less than 2.5 mRem/hr for the first event since approximately 17 feet of water shielding remained. Had the level dropped to the bottom of the gate, the dose rates at elevation 860' could have been up to 90 Rem/hr.

If spent fuel had been stored in the interim storage rack, dose rates at the refueling operations level would have been less than 2.5 mRem/hr for the first event. Had the level dropped to the bottom of the gate, the dose rates at elevation 860' could have been up to 2000 Rem/hr; however, spent fuel from the current fuel cycle cannot be stored in the fuel

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	closed and i would drop d transfer gat be lost due water in the access to th	t is the return path for lue to loss of 20,000 gal e valve had been open fo to the location of the s fuel building. Water s	re the fuel transfer gate valve to be cooling water. If the water level lons as in the events and the fuel r cooling, forced cooling would not upply and return and the volume of hielding could be restored without high radiation levels. In any of been lost.					
	activities i the vessel), during stor	n the Containment Buildi during movement of irra age of new or spent fuel Building, there were no	ion 3/4.9, 3/4.3.3) are applicable to ng in MODE 6 (Refueling with fuel in diated fuel within Containment, or in Containment. Since all fuel was Technical Specification requirements					
	Building. A system was c air-born cor release to t	Although the equipment ha operational. Prior to bo ntaminates in containment	mained within the Containment tch was off; the Containment purge th events, there were no measurable , thus no unmonitored or unfiltered during the draining events. There afety.					
III. CAU	ISE OF THE EVEN	I						
EVE	NT A							
1)	decrease in	the seal pressure during vice Air System to nitro	y lift gate seal was caused by a a transfer of the pressure supply gen bottles. This was attributed to					
	were no	it clear in addressing th	efueling cavity lift gate activities e pressure source transfer and with loss of seal inflation.					

- b) The personnel involved in the evolution were not cognizant of the appropriate procedural guidance and requirements regarding the transfer of pressure sources.
- c) Communication among the cognizant personnel was inconsistent with management's expectation, on reporting of potential problems in the field to the proper levels of management.

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	d)	The operations prior to the c evolutions.								ainir	ng
	e)	The personnel related to nuc potential for rates and impa	lear safety failure of 1	. They the gate	did not e seal, a	fully a nd the	ppre asso	ciate ciate	the d hig)w
2)	The mech	causes for the nanically induce	existence of d damage of	f the le the sea	eak in th 11 during	e seal manipu	was lati	detern on of	nined the	to b seal.	e
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1)	the valu patł	sluicing of wat reactor vessel ves 1SF-0026 and way between the lowing:	area of the 1 1SF-0025 s	refuel: imultare	ing cavit eously wh	y was c ich res	ause ulte	d by d d in a	openi in op	ng	,
	ā.)	The procedure both" of the v procedure did both valves co	alves (1SF-0 not contain	0025 and a caut	1 1SF-002 ion which	6) shou	ld b	é oper	ned.	The)r
	b)	The Unit Super (utility-licer of the pre-tas not recognize	nsed), who ma ak review, d	arked up id not p	o the dra properly	wings o review	f th the	e syst drawit	tem a ngs ai	s par nd di	

IV. CORRECTIVE ACTIONS

In response to the refueling cavity water transient an evaluation team was formed to review the event to determine causal factors, corrective and preventive actions and generic implications. The following actions have been identified.

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	o	water movement until Operations	ed Reactor Coolant System and cavity procedure changes and gate seal vities were planned to remove the of the refueling cavity as an					
	0	Clean-up and decontamination was	s commenced.					
		building gates, and containment	and enhanced the procedures for fuel liftgate procedure prior to use of ing was provided to Shift Operations					
	0	irradiated fuel or inserts when	was enhanced to preclude storage of the containment lift gate is y drained as normally performed.					
	0	The Operations department increa Pool (SFP) gates (every 2 hours)	ased monitoring of the Spent Fuel).					
	0	The Engineering department revie seal(s) conditions for potentia						
	0	CPSES reviewed other refueling e confirm adequate controls.	equipment prior to use for reload to					
		A system engineer was assigned t	for refueling gates and seals.					
	0	ISEG reconfirmed the adequacy of refueling activities.	f the shutdown analysis for other					
	Ģ	CPSES filled fuel transfer cana added precaution against gate so conditions could be evaluated.	l and partially filled #2 SFP as eal failure until gate seal					
В	. ACT	IONS TO PREVENT RECURRENCE						
	Pro	cedures						
	0	Appropriate procedures have been cavity lift gate activities.	n revised which address refueling					

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	Ø	procedure.	to Event B, a caution The caution statement to associated with potentials.	t assures	that	opera	tors	are a	ware	
	Persi	onnel Perform	nance Issues							
	Ö	during perio	essons learned will b ds of extensive acti laced on protecting p	vities, a	heigh	tened	i awar	eness		
		threshold fo to communica	management will rein or initiation of ONE ite problems which oc ion, during orientation	^F orms, an cur durin	d cont g a pe	ract rform	emplo nance	yee's of a	task	
		of Outage Re procedures a	management will eval efresher training for and tasks that occur knowledge possessed".	personne	1 who	are	invo lv	red wi	ith .	
	0	Operations p postulated s	procedures were enhan seal loss.	ced to re	quire	cont	ingeno	y pla	ins fo	r
	0	Work Control will discuss	earned will be develo l Center and Outage M s the need for evalua e potential impact on equipment.	anagement tions of	. Thi equipm	s les ent p	ssons proble	learr ems to	ned D	
	Conf	iguration Cor	ntrol							
	ō	Provisions w staged hoses	vill be included in p	rocedures	to co	ntro	l refi	ueling	g pre-	
			design change to relo nearby service air co			air	or pr	rovid€		
		Revise Desig	gn Basis Documents to	address	gates	and s	seals.			

NRC FORM SELA"	*****	n alas di sepertenan di Balan pertenangan di Sepertan di Sepertan di Sepertan di Sepertan di Sepertan di Sepert	U.S. NUCLEAR REGULATORY COMMISSIO	APPROVED OMB NO.3150-0104 EXPIRES: 4/30/92						
LIC		EE EVENT F XT CONTIN	REPORT (LER)	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. 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) Page (3)						
COMANCHE P	EAK-UI	VIT 1 Re additional NAC Form 3	0 5 0 0 0 4 4 5	Year Sequential Revision 9 3 0 0 9 0 0 11 0F	11					
	0	irradiated		rohibit storage of spent fuel or ling cavity fuel transfer area unless ed.						
	0	Evaluate a	lternative seal config	gurations for future use.						
	Mate	erial Issues								
	0	configurat		valuated for the gate seal ction against mechanically induced pressure supply.						
	0	A lessons	learned will be develo	oped from the evaluation of the leak.						
	O	The refuel maintenance		ls will be included in the preventive						
	0	Replace the other refue	e Unit 1 reactor cavit eling gate seals for p	ty lift gate seal and evaluate all potential replacement.						
С.	ADD	ITIONAL PREVE	ENTIVE ACTIONS							

TU Electric management has reemphasized to first line supervisors their role regarding self-verification, and to evaluate planned activities for potential adverse impacts.

V. PREVIOUS SIMILAR EVENTS

There have been no previous similar events.