## example proportion to be seen as a proportion of the common comments of the proportion of the second of the comments of the co INSPECTION PLAN

IE Inspection Report No. 50-445/80-26; 50-446/80-26

Licensee:

Texas Utilities Generating Company

Location: Glen Rose, Texas

Facility:

Comanche Peak, Units 1 & 2

Type of Licensee: W, PWR, 1150 MWe

Type of Inspection: Routine, announced

Dates of Inspection: Actober/ RALRE but RBLBN/, ABBO November 5-7 and 14, 1980- 13-14

Dates of Pravious Inspection:

September 6-10, 1980

Inspectors:

RCStewart

## SCOPE OF INSPECTION

30703B 92703B 49061B 49063B 50051B 50053B 50055B 50061B 52053B 52055B	52054B 52056B 51053B 51054B 51055B 51056B 52051B
--	--

Date

8708200346 870819 PDR ADDCK 05000445

INSPECTION PROGRAM STATUS COMANCHE PEAK H.S. PHILLIPS are page 10 for example REVIEWER FACILITY recorded for proudure Vs No. 2 OCT 30 1984 Rp1.80-26. 766 US UNIT C = Complete RECORDS LINE ITEM % COMBET REPORT CORRECT MODULE COMMENTS \* Rece did not verify 100C 77-08 250013 251248 80-03 50 80-08 100 C ROT NO. GRAGE 25/2913 84-06 100 C 25528B 80-07 100 C 25529 8 80-07 IEB 79-14 10 80.25 30051 B See unit I comment 35020 8 0 0 0 350603 84-11 100 YES ALL 350618 NO 0 0 0 YES 35065B 0 individu 35100B Required 1 Procedures See procedures. 352008 0 84-07 ALL 100 361003 78-07 100 MLL YE S 0 37051 0 Ye s No.022 81-19 37055 B 10 Yes 37996B ALL 80-04 100 Yr5 10. (2-5) Quarterly lannual in spector 42051C 78-13 10 4+5 reguirements never 1(e) 3 78-16 10 Hand I and 2. Yes 1 b. c. d. e.(3) 20 79-03 Yes 16(1) elo complete charged Yes 79-23 80 450513 78.04 1. C., d., e., 80 C 80-05 45053 B Process 766 45055 B QA Their completed 450613 Su PRT 100

8

THSPECTION

PROGRAM STATUS

H. S. Phillip,

No. Z UNIT

Manche Peak

766 VS

Oct 30 DATE

45063B	REPOR	A	% COMPET		The state of the s
450635	76.05		80	405	Sake Sheet down Forg
	76-06		80	Yes	
	176-08		90	Yes	
	77-01	ALL	90	Yes	
	77-06		90	Yes	
	77-07		100 €	Yes	See Rpt 76-06
45063C	80-27	THE PROPERTY OF THE PARTY OF TH	100 €		
45065 3	76-05	1	60	Yes	
The same of the same and the sa	176-06		70	Yes	
	76-08	ALL	80	Ves	
	77-01		90	Yes	
	77-06		90	Yes	***************************************
	77-07	1	1000	Y+3	
46051B	76.0%			No	See 766 for Ret 766;
460533	76-05	1	50	7	This regist over not down a
	76-06		80	Yes	Unit 2 Safravards Bld
	76-08		60	7	why reduce % complete?
	77-09	ALL	80	Yrs	
	78-01		1000	Ves	
460536	80-27		1000		See Unit 1
46055B	76-05	1	40	No Ye:	
	76.08	ALL	50 1		
	78-01			Yes	1
470518	72-06	A constant	1000	Xe.s	House UNITARE
4705313	76-16	THE STREET CO. ASS. STREET, ST	1000	No No	1766 DATE FUN down of reflect
470536	78-13	2,56	10	Yes	Ret 76-11 + 766; also 76-06
	78-16	3.4	20		The second secon
	78-20	1b.	30	YPS	
	79-01	2	30	Yes	
**************************************	79-03	2 ; 54, 6, 6;		Contract in an activation operate an experience where the contract of the cont	
The second secon	79-06	2;56,b,c; 1a,56,b,c,d	40	<u>Kes</u>	
THE REAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL	79-18	10,6,6;2;3	40	1/-5	
***************************************		None	80	Yes	79-23 date / 766 + ported
	79-23		900	No	Ino work proces

365

INSPECTION PROGRAM STATUS 3 of

manche Peak

H.S. PHILLIPS
REVIEWER

No.2 UNIT

OCT 30 DATE

MODULE	REPOR	I LINE ITEM	% Compre	RECORD TE CORREC	
470558	76-12	la b, e, d	66	Yes	24 \$ 90 76.06/766 dob.
	77-03	la-d	% Co mas	Yes	"Tom, left and 2 not don
470548	75-13		55	The same of the same of	See Ret 76-06 foundation
ATTAC AND DESCRIPTION OF THE PERSON OF THE P	78-09	10,20	60	Yes	dem !
TAN TO REAL PROPERTY OF THE PROPERTY OF THE PROPERTY OF	79-02	1, 2	60	Yes	
	80.05	None	80 C	and the same of th	testing of a sorr gate and
THE STATE STATE CHARGE BY A STREET STATE STATE OF THE STA	The Article Control of the Control o			The state of the s	Moli Livie clan, 3, 4,5 1
na Britan alabahan ya di kalan kanadangan jina karani, ki di kanadalan na ba	MANAGER AND				out at songlike of Chore
					corned.
47056 B	75-/3				See 76-06/766 date
	76-04	/ 3	55		Previously corrected
***************************************	77-11	1,2	10	Yes	THEOLOGIAN CONTRACTOR
	78-01	16(e) 1a-f	30	1 405	The state of the s
	78-09	THE COURSE OF STREET OF STREET, STREET	The same of the sa	1 401	
	79-08	1. 6	60	Yel	Cover 7 % A/L
	80-05	10-f,	(20)	No	Correct %. Alote line them No. 3 never done. Also close out.
47061-60		18-5	100	The second secon	THE RESIDENCE OF THE PROPERTY
480518	75.09?	Toplicable	annes en		* Plant uses no tendors.
the state of the s	77-08?		THE STATE OF THE S	A 4.437 manager records here are a contract on a finite statement and	see unit I comment
48053B	76-01	26,c., d	*9 -		The same of the sa
The same of the sa		2 b., d	30	Y & S	awner, Embeds, Pipa rootra
480536	(82-03)	No line Horn;	40	Yes	- Should close anti-
1		2.6.	1000	NO >	166 ever or nothing mortal on camil 2. Not documented in support.
and the same of th	(77-09)	2 b.	7	NO	Liner in stallation / Not morrhy Lines. 15 766
	The state of the s	h raprila		The state of the s	
		and the same of th	A	11. 2 0-	706 data
The second secon					The state of the s
		-			
	Ministry & Brown Lawrence Brown Water Brown Street		· ·	STANDS DIVINOUS CONTROL OF STREET, SANS TO	

INSPECTION PROGRAM STATUS

Manche Peak

REVIEWER

No. 2 UNIT

OF 30 -

MODULE	REPORT	LINE ITEM	% COMPLETE	RECORDS	COMMENTS
48055 B	76-01	None , Trem	erchibiles and taltile with incheby the title debits and	No	
- The state of the	77-01	1., 2.	20	Yes	
	78-21	2	40	Yes	unit & Liner Plate ving NP. 128 13 reviewes weld & NP.
STRUCTURM	L STEXL	AND SUPPORT	\$		
480/013	7707	ALL	10	445	
***************************************	7208		100 C	445	
*******************************	77-13	1 1	1000	Yes	MAC CORDIN/ PROPERTY
480633	78-19	25	10	3 0+704	
	81-08	None	100 6	NO S	THE RESERVE OF THE PROPERTY OF
48064 8	8168	None	100 €	No -	3 Piccess 764.
48065 3	78-19	None	10	とからして	-1 - Process 16
	81-08	None	100 C	No	
48066B	81.08	None	100 C	No	-1 17 17 - 16 U
				Auguss of the Control of the State of the St	
					11 10 16 16 16 16 16 16 16 16 16 16 16 16 16
490513				Ho.	766 Should reflect Ba
49053B					[ H., ]
-	PARTIES AND ADDRESS OF THE PARTIES AND ADDRESS O		THE PERSON NAMED IN COLUMN TWO PROPERTY OF THE PERSON NAMED IN COLUMN TWO PERSONS NAMED IN COLUMN TRANSPORT NAMED IN	THE RESIDENCE OF THE PROPERTY	

INSPECTION PROGRAM STATUS SOF

ACILITY

REVIEWER

NO 2 UNIT

DATE

MODULE	REPOR	I LINE ITEM	% COMPLETE	CORREC	T COMMENTS
49053 C	79-26	1	The second secon	Yzı	handling value
	81-05	1 2	10	Yes	handling, welding, 11 DI
	81-11	1,2	20	Yes	personal quals.
	82-02		20		- 1 Precess 766.
					Close comprise
METATORISMOST CONTRACTOR CELL-CONTRACTOR					
490548	## 10 mark or of the last or of the				No inspection done; housed Sugar while in 03/80/84
					The state of the s
19055B					di Ha
4905613	#*************************************		THE COLUMN ASSESSMENT OF THE PARTY OF THE PA		d. Ho .
DAFGTY		P. P.NE		Militaria de la composición del composición de la composición de la composición de la composición del composición de la	
19061 B	77-07	status	10	Y = 1	Could to be credit under
	77-08	-46	30	Yes	se previous verified.
	77-09	*	80	7.	# ditte
19063 3	27-16	10	10	Ves	CUES 7-4,01d welds Ave Bid

ACILITY

REVIEWER

No. 2 UNIT	· · · · · · · · · · · · · · · · · · ·				gateman
UNIT				RECORDS	DATE
MODULE	REPORT	LINE ITEM	% COMBEIL	CORRECT	
490636	78-13	Kone	10	Ko	MIT Comments unit 1
	80-01	None	10	No	C, 40
	80-03	war	OTRAC GEOGRAPHICA CALLANIA CALGARI MICHIGANISTA CALLANIA CAL		Chosit 1 posty.
	80.11	/	10	Nes	handling
	81-18	None	20	No	only wolding in spectral
	\$2-02	1	20		· Only welding in squared .  · NOE (in squared) of was .  · honding , brage , in stoll.  · chart 2 - , wald Ripb -
	The second secon				and my is CS-2-AB
44065 B		Se-	ge-	gar	
			and the first transport of the second	осительной от достинент в подавлений в пода	
***************************************	50.6 may 1, 10 may 1				
					basec on Triz
	***************************************		***************************************	Proces.	basec o- 77-12
55081B	77-05	2	80	Yes	Note: could to ke 100% Condit for want 1 40, se
	-75-12				
55083B	79-24	*	10		so mych in specture under " 2 of on.
	82-09	*	1000		Reviewed and agen
STATE OF THE PARTY					to cover.
******************************	***************************************				
			and the same of th		
	THE RESIDENCE OF THE PARTY OF T		**************************************	THE STREET PROPERTY OF	
				THE STATE ST	
THE RESERVE AND THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM			SELECTION AND ADDRESS CONTRACTOR OF CHICAGO AND ADDRESS CONTRACTOR	***************************************	
			CONTRACTOR OF THE PROPERTY OF		THE PART SANTEGORDER OF THE PARTY STATE OF THE PART
		CANCEL SERVICE CONTRACTOR OF SERVICE CONTRAC			
		erando tres en esta accesso de la companya de la co			
				AND A STREET COMPANY OF THE STREET	THE TANKEN AND THE PROPERTY OF

FACILITY

REVIEWER

No.2 UNIT					DATE
UNIT				RECORDS	
MODULE	REPORT	LINE Frem	% COMPETE	CORRECT	
550836	78-13	1	10	THE RECORD OF THE PERSON AND THE PERSON OF T	
	79-18	None.	10	?	
	79-23	Nome		?	#Reps on Ginide Cont.
	80-01	1, 2*		THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRESS O	NOE years sevious and.
	80-03	27	note a finite read management flore consequent source search and a search and		
	80-08	1, 2 *			de the 4 bounds
	80-11	1, 2 *			
	80-16	2*			
	10-11	42*			Not i Ape rue 1 - 1 gueto
	10-20	1,2 *	10	Yes	
	80-23	1, 2 *	20	Yes	
	81-01	1, 2 *	(0	Yes	
	81-18	,	20	Yrs	
					,
				THE PERSON NAMED IN THE PE	
		Account to the State of Tables and Asia	1	engine of the of the state of the second contributing was, can	passeria britannos de en alegan de passerio que des a apporto desse referencia de la companya de destra de describir de la companya del la companya de la co
and the second s				THE THE PARTY OF T	get activate 1994 i Bust Sonor i scorre algo activat (Alexan rativa e e e alexania de la companya e e e e e e
550853	83-05	1-6	50	Y+5	
ve weenegees welke the elle overeign	83.09	4	5001	Yes	NOE von BV WRT.
				annessen anomfolis selfos se se se se se se	DE L'ORGENT LE RECONTRACTOR RECONTRACTOR CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE
OF DESCRIPTION OF THE PROPERTY	TELEPONE SULPERIOR SULPERI			The spirit state and constitution of the print to the	
ACCURATION OF THE STATE OF THE	THE RESERVE AND A SERVER OF THE PERSON OF TH			TO TO BE SHEET	
********************************	NET HAVE THE SECRET PRODUCTION OF THE SECRET PROPERTY OF THE SECRET	THE OF THE SECOND SECON		The contract of the contract o	
	MATERIAN BARBARA ATTACAN BARBARA ATTACAN BARBARA ARTATA CAN ARBARA	THE THE RESIDUE SHOWS THE PROPERTY OF THE STATE OF THE ST		S. Artimorphopia and anti-model and deleting the second of	
	neg Austrian agune ag-not-riggeren i d'arrecte agun M.C. Ne giring a	-		Contraction to the MCCOntraction in the Land Contraction in the Contra	
	AND		nadara cinasastarinatan rakendang dang mona		CONTRACTOR AND THE CONTRACTOR CONTRACTOR OF THE CONTRACTOR CONTRAC

ALILITY

NO 2 UNIT REVIEWER

Process 766 Some OPEN CAF

MODULE ZEPS WELD	126		em % Comatie	CORRE	COMMENTS
550718	82-05	ALL	(80)	1 Ver	lastant and the
5507313	82-09	*	100c	Yes	* Did not verily all the
	87-03				A130 50 mony in 54
					I was wonder to a Dag
					have been well cover
			Processed	PERSONAL PROPERTY AND AN ADDRESS OF PARTY AND ADDRESS OF PARTY ADDRESS OF PA	A TOTAL CONTRACTOR OF THE PROPERTY OF THE PROP
**************************************			16478-12	ACT TO THE RESIDENCE OF THE PARTY OF THE PAR	
	T-6.7 C				
50736	78-13	4.3	10		
	80-01			You	Control of the second s
	80-03	1,2	10	Y-1	
	80-11	1, 2	10	- He	1/4/4
	80-16			tes	HOF- X.100
	80-18	1, 2, 4	10	Yes	
O COLORADO ANTIDO A	80-20	12,4	10	Vel	Note RRI L'I as buill
	sv -23	1,2,4	10	Yel	Note RRI did as buill
The State of the State of Stat	80-27	2	10	141	NOF X-rug
		1,2,4	10	475	
TOTAL PARTIES AND ADDRESS OF THE ADD	81-01		10		*
	81.02	1, 2, 4	10	THE RESIDENCE OF THE PERSON AND THE	
Commission of the state of the	F1-05	2	10 1	THE RESIDENCE OF THE PARTY OF T	NOE X- ray
	81-06	2-	10		1,
	81-09	2-	10		11
	81-11	1,2,4	20		
	81-14	2	10		
	87-16	7	20		And the second data of the contents at the second of the s
	81-18	2	20		on soing radiography
	82-01	1	20		The second secon
	42-02	1, 24	20	****	net in outer 76 days ous
					17.000

## INSPECTION PROGRAM STATUS POR 9 . F

No. 2 UNIT

REVIEWER

DATE

MODULE	REPORT	LINE ITEM	% COMRE	CORRECT	
			1	-	The second secon
			,		On proceedings of the second s
				-	
					HOBBERVATION of work
50748	82-09	1, 2, 3, 4	50	× /+/	FSI. FW 51,57 SI FW 9, FW 5, FW -611
	TT NOTES AND ADDRESS OF THE SAME OF THE SA		The second of th	1	1 RC FW 7 1016/16/16/16/16/16/16/16/16/16/16/16/16/1
	CONTRACTOR			roces how	OF FW 2
550050	#18	/		LOSO OF	15.1-2-0182-03 Main FW 1.7, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10
55075B	82-11	//2	1006	(Ma)	- 6 TSTEZ 43, 52, 61
a and an article (and against the first control of the second of the sec	100.00.00.00.00.00.00.00.00.00.00.00.00.				SI - 2 - RB - 026 FW 5
55076B	83-05	1,2	40	Yes	ma RC-2 RB-665 FW-7
	83-09	1,2	1006	(NI)	4 my t done . 3 and
					AME COLL.
-			to seep	500	cine ilim 3 requires
			Aug ( the		y recont NER,
			***************************************	manusana da	Clear NC P Sand
			Annual Control of the Control of	e en est de la resta e en especialmente y des sous anna un entre de des	City were some
					site by the
				and water transfer and training of the first first deposits and where	
				***************************************	
		CHEMPARTY PARTY AND RESIDENCE OF A STATE OF THE PARTY OF	BANKS ASSESSED THE THIRD SPACE SCHOOL STATE OF THE CONTRACT		
				***************************************	
	1			CONTRACTOR OF THE PROPERTY OF	THE STATE OF THE PARTY OF THE STATE OF THE S

-1101167104 INGGRAM SIMIUS POR 11 of

1/2174

REVIEWER

No. 2 UNIT

DATE

				KECORD.	
MODULE	REPORT	LINE ITEM	% COMBEIL	CORREC"	1 16 reported obcomplete
500636		1	50	No	
3000	80-16	1		No	internaly inspected not come
	81-05	1,2	10		Movement observed.
	81-11	1	50	CAN AL AND MANAGEMENT OF THE PARTY OF THE PA	
	81-18	1	-		,
	82.02	1	20-1		1200050 76
					closed
	79-16	1 ,	1	No	
	7770	1			
5001:3	Ø 2 - D /	1,2,3	100 C	125	
500653	82.06	1 2 4 3		The second	
				***	100 C
					and the second s
500713	77-09	26-€	50	Yes	
	78-03	1	80	Yeu	
	78-04	2a-d	50	No	Should be Bo or more
	79-22	24- d	80	Yes	
5007313	80-05	2.	30:	Yes	(2c) in place fines torong
500/30		None	2011	No	Not insputed.
	81-18	none		~~	
					The second secon
	****				
				THE STATE SHE SHE AND A PROPERTY OF THE STATE SHE SHE SHE SHE SHE SHE SHE SHE SHE SH	
				ON AN ANTION AND COMMENTAL STATE AND COMMENTS ASSOCIATED AND COMMENTS	
				*	
				***	The second secon
				nareamananani mitalimat virinana peperakan	
				versi sommere se su	

INSPECTION PROGRAM STATUS Page 12 of

REVIEWER

UNIT				RECORDS	
MODULE	REPORT	LINE ITEM	% COMPLETE	CORRECT	COMMENTS
500736	78-13	1 4	10	Yes	components inspected.  Confainment spay pumps !  chettic drives.
	79-18	1, 34	10	Y=1	
	80-11	3	20		TWO RX GOT Dump in the Ille
	80-200			No.	of a tel value comes
				DE ANGLISEON CHEMICALES BURNISHES ANGLISES	- Trocess-160
			!		
					- Process 166 - 64
	0		20	Yrs	component, inspected met
500748	80-05	2 _	En El Commission de la		
				***************************************	***************************************
was the same of th			Annual Annual Control of the Control	***************************************	trocess 766
			2	7	and or line ham theck
500758	80-05	1a, b, c	10 ?	Manager Wanger	Sof or line show their
Alexander Sandar Sa	81-08	None	20	No	unst unit? It in spectal
					was not down on kel.
				P. S. Derroom & March Street,	Present 766:00
Proposition of State Commission Suppose & Contract States of					In I william of
F1 + 5 / 0	80-05	16,6	10 ?	?	Dito romment above as
50076B	00-03	10,6			
			1		
	***	3 4			Pive pipe honger suggests vo as builts.
50090 8	80-29		50	No	None in spected.
	81-15	None	10	No	
Annual de la constitución de la					
		CONTRACTOR OF STREET	A CONTRACTOR OF THE PARTY OF TH		only five of \$0
THE R. SPECIAL PROPERTY OF THE PROPERTY OF T				A Commission of State Comm	ine ithe ; 3 and 4.
					1777 10-10.
1	( because of				
				1	***************************************

MONICION PROGRAM SIANUS PAGE 13 of

REVIEWER

DATE RECORDS MODULE REPORT LINE ITEM % COMRETE CORRECT COMMENTS See Unit No. Comment Commot de framine a hat hangers was a impacted PIPE SUPPORTS 3 b. c. 4a. b. not identified in Rpt. Yes 500904 80-15 10 Dowest gation Yes 10 83-01 Presents -11 1, 2 79-13 1 050 41

Yes None 500953 Alunu Mone None CONT. PENT. NO See unit I comment. 53051 B 76-06 None 10 100 € Yes 76-07 ALL could not identity to 10 0 Yes 53053 B 7607

insuccion lageram STAIDS Page in of

- REJIEWER

	X	6		2	
P	U	N	1	T	

UNIT	dage with the The and developed to the fill dage are a second and a second dage appeal.			RECORDS	DATE
MODULE	REPORT	LINE ITEM	% COMREI		
53 0536	Kone		garan Saddhan ean F Ball the arish markada Marikada h		The second secon
arringdar and man extra at the artitle and artitive and					
***************************************	4 C-14 C-15 C-15 C-15 C-15 C-15 C-15 C-15 C-15				
and the second s	NAMES OF THE OWNER			A CONTRACTOR OF THE PROPERTY O	
	A CONTRACTOR OF THE PARTY OF TH	and the second s	1		
	DIANTON AND PORTON MENTING SAFERIA CLASSICAL				A STATE OF S
53055B	**************************************	5		Yes	· Personne / air lock
530338	78-18	3	21	140	
550513	76-06	1,2,3,4	1200		See comment Unit
55053 13	76-01	- / - / /	30	Yes	1 2 8 4 5 4 1 1 1 0 Rx Cavity Place  5 0 ml y com? 1  1 1 m 3 gc; +c
	76-04 76-07 77-01	None	38	NO	None 2 1 in square
TO THE RESIDENCE OF THE PROPERTY OF THE PROPER	77-01	1,2,34	40	Yes	99990 Flour 1 nev 26
O TELEMON - MANUSCRIPTS - O LITE TORGON SANDONICSON PAR A MINI	77-03	1,2,3,4	60	Yes	22220 2ring
	-				
			11	********************************	
					LIN 57500 1
53055 B	76-01	1,2,4,5,78	20	Y+3	Consolds - lieur piets
	76-03	home of the second	100€	No six major or pot in the two lded.	6 -102ek
	77-01	1-5;7	51	Yes	444404
	78-12	2,3,6,7	60	VxJ	0 3 3 0 0 3 3
TO MICOLOGICAL CONTROL OF SERVICE SERVICES			***************************************	,	
Attended to the second					Name of the second seco
			s martine seçi sossantina tirans sudan essentina anticolor		
				and the country of the first of the first of the first of the country of the coun	The state of the s
manufactures of the second		A			

CIL 17 Y

REVIEWER

1	40	2.	2			
U						

UNIT	andlers has an emphasized as transfering				DATE
0411				RECORDS	
Manue	REPORT	LINE THE	% COMBET	CORRECT	COMMENTS
Medule				Yez	
550618	77-08	ALL	1000		
	77-13	nic	1000	Yes	
==0/2 3	1	None	(1000)	Yes No	in coes not sylling
5506313	78-19	COLUMN TO SERVICE STATE STATE STATE STATE AND ASSAULT	respect the respect tops a new first received to the second section of the section of the second section of the sect	aming an arrangement of the control	an structural steel
	Proba	bly no more	TWO F PER GU	DANCEZ	welding Only
	pm	70%.	Sect III: Las	a ser & grain money.	Die det der/ty 1/2
		*	50	Y+3 A	The state of the s
55063C	78-15			1	BUT DOES NOT DOCUMEN
	81-16		20	6682 766	WESSIAN AF NING WEL
550648			1	1211 6 +	MND INSPECTION OF ROD
				complete	IN \$1.16 DOES NOT DOC. LINE 37
		2/	10	· W	In ond mores on 14.
55065B	78-19	None	10	No _	unit Ne. 3. All 50 mo
				THE RESERVE THE PERSON OF THE	welds identified.
		2	1	Ves	See comment for
5506613	83-09	2	10	K) -	und!
STEGL	STRUCTU	250			
50151	None	None		to di	Probably completed
2019				8	fraggain and to the co
					OFFICE S
			A STATE OF THE STA		
	January Vanasarana		111		
THE PERSON NAMED IN COLUMN TO PERSON NAMED I			The state of the s		
				***************************************	A STATE OF THE STA
	ACCOUNTS OF THE PARTY OF THE PA	With the contract of the contr		washing support 20 to the support of	
		calculated services in a secondary or second secondary and a	and the same of th		
			The state of the s	NAMES OF THE PARTY	
		or region takement experience exercit systems experience of			
			****************	MI - 18. MO - 17 - 1-11 - 11 - 11 - 11 - 11 - 11 -	
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	***************************************		***	ACTOR DESIGNATION OF THE PERSON OF THE PERSO	

REVIEWER

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PRP-RC-2-520-0 not does not prefum of al p-RC-2-520-0
P-R1-2-520-0
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INSPECTION PROGRAM STATUS Page 17

GILITY

REVIEWER

No. 2 UNIT

UNIT					DATE
		-		RECORDS	
MODULE	REPORT	LINE ITEM	% COMPLETE	CORRECT	SI- COMMENTS
55/833 Cm	td) 80-17	1a-V	10	441	SI- FW-1-1 PW?
	80-19	14 - W	60	141	CCW .
	81-07	14.0	70	Yes	Main Reason CCW
	82-03	14-V	70	Yes	152
	87.09	14-0	90	V-01	SI Mais Steam (MS)
551853	81-07	1, 2	20	Yes	and SI I would wrong ?
	81-17	1	46	You	SI Tan welds
	82-09	/	50	Kej	
	82-11	2_	50	4+1	
	13-05	2 <	80	· Yes	IInd. Mear Team
	83-05	ALL	1000	Ywj	Tend Mear Teams Tell werds ( part it were sake by mieted
55186 13	81-17	ALL	50	105	
	82-05	Mone	70	Nos	At T- Pre hand, past his stress rated or down
551873	82-03	7-4	60	Ves (	is specified or done
MALEST LIGHTE STATE ACTION SHAPENCH AND WOOD STATE THAT	82-09	3-4	80	Yes	
5518813	81-17	1, 2, 3	20	4-5	Note: could be higher &
	82.05	1, 2,3	50	V-,	
		, ,			
					*
			;		
			11		- Company of the Comp
		-			
					*
and and an arrange of the second seco			and the same of th		
\$					<b>8</b>
	,				
				en e	The second secon
anned the constant of the					MESSLE-LA DESIGNADO ANGELEDIZADA CAPATRA PARA PARA PARA PARA PARA PARA PAR

INSPECTION PROGRAM STATUS POSE 18 REVIEWER RECORDS MODULE, REPORT, LINE ITEM, % COMBELL CORRECT COMMENTS ELECT COMPESYST 5/05/13 77-13 Trocess 766- 11 510 Shoold on they " " com flit for word 79-22 2abce 550 No 510530 0% 510536 78-13 74.18 A : Same s a 10 541.2. 28 510543 00% 510553 0%

THOMETICA PEGGENM DIMIUS PERCIS

13	EU	1 5	44/	*	1	4 (40)	***
,,,			~	c	14		

No: 2

				RECORD.	S
MODULE	REPORT	LINE ITEM	% COMBET	CORRECT	
5105613			0		1
,			The second section of the sect		
ELECT	CARLES /	EAMINATI	inus		
510613	77-13		10	*************************	
	80-01		90	TO PROBLEM SON OF STREET	
				Military to a support the service with the service of the service	armed by annual region of the second state of the second s
The same and a street and a str					and any section of the section of th
STATE OF THE PARTY					
					COMP 1 MEET MY BEET MEETING AND
				Action to the residence of the second	,
				The state of the s	
5,074.5			THE PROPERTY COLUMN COL	***************************************	
51063 B	80.03			TO THE PERSON NAMED OF THE	
	***************************************				
					*
	*****				
			11		
					The state of the s
51063c	79-18		10		
	80-08			The second secon	
	80-15		10		· Cuble trang suggets
	8018		(0)	ACTIVATED TO THE OWNER OF THE PARTY OF THE P	· cable trang sayors / combed
	83-01		10		Allegation cable splice.
	***************************************			,	
				A CONTRACTOR OF THE PARTY OF TH	Track Told
`.					

INSPECTION PROGRAM STATUS Page 20 04 REVIEWER DATE RECORDS COMMENTS MODULE REPORT LINE ITEM, % COMBET CORRECT 0 510643 51065B 0 5106613 0 11 INSTRUMENTATION (COMPONENTS/SYSTEMS) 79.22 52051B 60 81-10 90

IMSPECTION PROGRAM STATUS Page 71 of

REVIEWER

The state of the s					DATE
	0		0/ ( 0.56	RECORDS	COMMENTS
MODULE	KEPORT	LINE ITEM			The state of the s
520533	****		0		
				THE STREET OF TH	
•			. 1		Solice of cable - Allegation
520536	83-01		10	No	Splice of cable - Allegation on buy downers to Unil mageria
Name and the state of the state			1	The second secon	
					der ner 1 nere understaten einstaten einstaten betreiten bestellt betreiten bestellt betreiten bestellt bestell
520543			0		
ones successive contract contr					
520540			0	COLOR COLOR DE MESTA COLOR DE	
	And the second state of the second of the second se		0	and a composition of the composi	2
52055 B					
and the same that has be surely and the same that the same	AND AND DESCRIPTION OF THE PARTY OF THE PART			ir daventi ya rekanda kunin kunin kunin dala davar ekanda dalami	
5205613	81-10		20 :		ROT NOES NOT DIEFERENT BETWEEN UNITS
3803013	A characteristics	1			
JUSTRUM	ENTATION	CABLES & TE	RMINATIONS		
520613	and the second s			CONTRACTOR OF THE PROPERTY OF	Zevo.
	and married to the state of the				
52063 B			11		Zero.
	and considerately of the constitution of the c				AND THE RESIDENCE OF THE PROPERTY OF THE PROPE
52064 B			,		Zero.
					240
52065 B				anti na mandaghar daga antana na mana na mga katamat nya disama na manda na	
				N. a. word and the state of the	Zero .
52016 13				***************************************	
	A LONDON COMPANY OF THE PARTY O				
Mark Control of States - Market States and States -					
					Mary and and are sever and all the sever and and are sever and and are sever and and are sever and a
					The state of the s

JANCHE PEAK ... 1 L 1 T Y

No. 1

76605

OCT 30-

	UNIT				16605	DATE
				C = COMPLETE	RECORDS	
1	MODULE	REPORT	LINE ITEM	% COMPLETE	CORRECT	COMMENTS
	2500+B	77-08	*	100 €	*	# Pre cp, therefore
-	251243	80.03.	*	50	*	a.c. 101 111111
-		80-08	*	100 C	*	
)	251298	84-12	×	100 C	. *	RPT No. ERNER
-	255288	80-07	*	100 C	94	
-	255248 const. & c vince	80-07		10	36	IE3 79-14 See 82-03
-	3005/B	7:ns 80.25		?		Review Construction
-	and t Applican	1				Required annually
-	35020 B	78.07	021-6.1.	50	Nó	Ret did not support
-	Audit May of &	84-32	ALL	100	Yes	
1	35060 8	84-32	ALL	100	Yes	Review Corp. Mgt
1	350613	84.22	ALL	100	YES	Annual OF A Inspection
1	35065B	503	0	0	Yes	Proceeding 100 mad 4/1/83 Should have been done 4/1/8
1	35100B m.d. 04 35200B	Required	by indi	Jidual Pre	u dures.	See procedures.
-	352000	78-20	ALL	10	Yes	
1		78-23	ALL	100 C	Yes	
1	36100 B	78:07	ALL	100 C	Yes Yes	entaggenassanannan-iorianistassanan Videos are i rear
1	37051	84-10	ALL .	30	Yes	
1	370558	84-10	?	100 C	No	ENTRY IN EARON.
1		81-18	?	50	No	This resport does not support in specifical of line items.
		81-19	NG 022, 023 021 (in part)	50	Yes	NA MINISTERIO CONTRACTO CO
	379953	82-05	,	100 0	Yes	See module 25528/Ref 82
		82-30		100 K	Yes	Followup in spection.
	37996B	80-04	ALL	100 C	Yes	
1	42051C	78-13	a(2-5); e	10	Ves	line items ( guarterly
-		78-16	1 e (3)	20	Yes	can mually not complete
-		79-03	16. 6. 6. 60)	50	Yes	
1	SIE WED.	79-24	16.(1);e	(3) *	Yes	"To comple recorded
-	450518	78-04	1. c, d,e	80	No	5
-	45053B	78-04		80	(No	Report does not docume observation of work.
-	45055 B	78-04	5.	0	No	Should show 80%
1	450618				No	No 766 on fry knowner, notes on dien the procedure
						74-03, 74-04, 75-01, 75-01, 75-01

THOPECTION PROGRAM STATUS

Comanche Peak

H.S. Phillips REVIEWER

No. 1 UNIT

766 VS

Oct 30 DATE

MODULE	REPORT	LINE ITEM	% COMBER	RECORDS CORRECT	
450633	76-05	1	80	Yes	So he Shutdown Impound
***************************************	* 76-06		80	Y-25	* Note: found data 45051,53,55: 46051 etc
#*************************************	76.08		90	Yes	
	77-01	ALL	90	Yes	The second secon
	77.06	1	90	425	
	77-07		100 €	Yes	
45063 L	80.27	1	100 €		to planting the submitted transfer of the su
450653	76-05	1	60	Yes.	
	76.06		70	Yes	
	76-08	ALL	80	Vei	
	77-01		90	Yes	
	77-06		90	Yes	
	77-07	Į I	100 €	Yes	
Foundation 460318				No	* 3.4. 766 For Rpt 76-06; Shaws 100906
460533	76-55	1	50		Buse mant coring unit 1
	77-09	Abb	80	Yes	
	78-01	1	100 c	Y-es	The second second of 11/2 and the second sec
460530	80.27		100 6	No	inspection - 766 No time
460558	76-05	1	40	405	
	76-07	ALL	50	Yes	
	78-01		100 C	Yes	
concrete 4705 B	76-06		1000	NO	Rp 1 36-06 shows 100% 75.06
470533	76-06		100 C	NO	NOT IN 764 DATA BUN
470536	78-13	2.56	10	Yes	
	78-15	10	20	Yes	rebar splice confain wall
	78-16	16.c.; 50, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	30	Yes	Annes and Anne and Annes a
	78-20	50,6,0,16	80	Yzz	SSE Nationals State of According to each open parties accomplish that dauges are specially stated to the State of State in According to the State of State of State in According to the State of
	78-22	2,,+	90	Yes	ompeted no 0/0
-	79-01	2,54	1006	Yes	Rpt shid unit I concrete compl
	82-03		90	No	Should close I ? out.
					A

INSPECTION PROGRAM STATUS

Enche Peak

H. S. PHILLIPS REVIEWER

No.1

OCT 30 DATE

MODULE	REPORT			CORRECT	Corn & base mat for test
470553	76-04	None	1000	danie in reservation (respectation) and reservation (res	
concrete II				TO BATTER OF THE PERSON OF THE	
4705413	75-13		10		Note: 76-06 Four dution /
THE OWNER OF THE PERSON NAMED IN THE PERSON NA	76-06	1,2	10	Yes	desert
***************************************	77-03		10	Yes	
	77-07	1, 2, 3 4	20	Yes	Wall, Foundation/Down
	77-09	1-6	50	Yes	
	78-18	1, 2.c-f	50	Yes	
	78-19	2,5,6	50	4+5	
	79-02	1,2,4,3	1006	Yes	
47056 B	75-13		95 L		
	76-12	la,b	20	4.05	
	77-03	1a-d	30	Yes	except line ton 1est \$ ?
	77-11	16(3)	40	Yes	,
	78-01	1a-f	50	Yes	and the second s
	78-19	1a-f	70	405	Nut: Ret 79-02 decument
AND THE RESERVE OF THE PARTY OF	79-04	None	100 C	CONSTRUCTION OF THE PROPERTY O	766 data ing 16 4/c
11079 E01575 E1 E0100 10157 (110 10 E1 E1 E010 10 E1	hannamen ankolikuriko ako ako ako ako ako ako ako ako ako a		***************************************	THE RESERVE OF THE PERSON OF T	Note: Line item & or
Post Tension	Tondons			OF PHILIPPEN PROPERTY.	not down
		while ble.		The Control of the Co	Plant uses no todors
48051B	1 steel	eglicable.		period Saforasion Saforasion enteriore assertionaries (Saforasion enteriore)	
	woonandawaani a caarii aana	A. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	1	CONTRACTOR OF CONTRACTOR AND A SECRETARIAN	
ann annig tiden en en enderde tamper authorisment breit authoris	7/3 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Poly	Hot in Data Room Riv
THE STATE OF THE S	TO A STATE OF THE COURSE BANKS AND ANY COURSE OF THE COURS				Rpts 11 100 6 C.
44053 B	76-01	* None	30	8/6	thegent down not support
11033		2. c	60	N/S	NDE of Liner
77-08 -	77-03	26.	AND THE PERSON NAMED OF TH	AND SHIPLE SHIPL	to line of altachment)
THE STREET, ST	77-09	2.6.	60	THE PERSON STATES OF THE PERSO	Personnel hatch concreance
	78-09	26. ?	80	14.4	Personal hatch emergency
	82-11	26(Liner)	100C	405-	2 investigations + ollegation
48053 C	81-16	ad pipe	90 4	No	No time characted. Should have reported time on un
	Vessel commensus the collection of the collectio	Strel platform	***************************************	THE COLUMN TWO COMES SECTION OF THE PROPERTY O	for at state of the dependen
	***************************************				The state of the s
		and line ite			3 of 12 line items does no

INSPECTION PROGRAM STATUS 4 of

Comanche Peak

HS. PHILLIPS
REVIEWER

No.1

MODULE 17055B	76-01	1.,2.	10	CORRECT	Liner COMMENTS
7,000	77-03	1. 2.	30	Yes	Escape The sommet trasy
	THE HOLD SHARE STATE OF THE HOLD STATE OF THE STATE OF TH	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	1/1/2	нада усиновникастька NM винацияльной ег и ли Святоновная виначания населения с 1 ° Na <sub>1</sub> -дипе
	77-11	1. 2.	40	4.	aperative automorphic in Millionic relationships of paper after account devices considerate account of the contract of the con
	78-05	1.	.50	MERCHANISM TO BE A TOTAL	3 tran 6 m.
	74-09	2.	100 €	- Kes	Mar crame records Heviewed
ocum t userno, red differential descriptions at the series	82-11		700 m	опсона. Вника, ме за напосвана т на некомента	as present record periods
TRUCTURA	L STEEL AN	D SUPPORTS		Landa - Barracanda arrivante arrivada da Astronomiera de Astro	1-1-1
48061B	77:07	ALL	10	Ves	were establishand for stru
	7208		100 C	1145	Rol do commented no proud, were establishmeter structured for 31 ccp-21 scp-22 och-2.5, och-2.13.
	7713		100 €	Ves	
	78-12		902	No	should be closed
44063 B	7842	26	10	Yes	Structural stul Aws DI
	78:19	26	20	НО .	HUAC control rom, welding
	7419	Hone	100 0	No -	2 of 11 line items completed
	81.08	Hone	100 6	No	RP13 79-19, 81-08 did no
18064 13	808	None	1000	No	struct. Steel outside conta
p-off-editable code-recologis-record	8245	1,2,3,4,5	1000	Yes	
18065 13	78-15	26	10	Yes	*
	79-19	None	1000	No	Siee Comment for 48063
	81-08	None	100 C	K6	1
18066 3	81-08	None	100	Ko	
	82-15	1,2,3,	90	Yes {	done every of proceedings
	84-10	1,23	100 C	4+5	nonconform on a wegot
REALTOR	COOLMAT	PRESSURE	Bouns	0	NG / VV /
19051 B	78-18	ALL	1000	Yes	Note: 49061 may be covered
49053 3	79-04	1, 2, 3	30	Yes	a. P. J. Prod. 71 Mar.
er transpatition ( the orific annual resignation or early	79-19	1, 2, 3	70	Ver	
	75-25	1. 2	90	Yel	
A planting of the state of the	82-11	4 (in part)	100 C	No	a. As built between two major components not downsted

INSPECTION PROGRAM STATUS SOF

FACILITY

REVIEWER

No. / UNIT

				RECORDS	DAIE
MODULE 1	REPORT	LINE ITEM	% COMPLETE	CORRECT	COMMENTS
19053C	78-13	2	2.0	44	welding - 2 Joints RCPB , was loop
	78-15	2	10	Yei	
	78-16	2	10	Yes	welding RepB (main loop
	79-06	2	30	Y	waldeng R ( 78 min loip
	79-16	2_	50	Yrı	Ex (019)
TORONOO TANKAN VIIIIA MARKATANIA	79-27	1	60	Yel	handling of value
YEAR PROGRAMMA / JUNY ARREST BURGASSAN AND	80-01	None	60	Yes	but out documented in 10
	80.20	1	80	Y~,	NDE ( investigation )
THE RESERVE AND PARTY OF THE PA	80.23	None	80	Yes	Pipe suggests in spectral
	81-05	2	80	Yes	welding, welder Rual
-	81-16		90 -	Yes	NDE
	81-18	1	90 .	Yes	NDE,
***************************************	82-03		1		3 completed him i'm
190543	8019	1,	30	Y	3 completed 2 2 5 4 5 + - 5 a. 7 = 10 2. 2 rum. NOK - 2 5 4 5 4 5 - as built
and the stroke of the stroke of	82-11		30		The state of the s
1905 5B	29-04	1a-e	40	Y=3 Y=3	3 main woop spoole
an antide a server of the serv	80-19	10-6	80	Yes	The state of the s
	82-11		100 C	1.7	
44056 B	80-19	1a - e	80	445	
	82-11		100 6	147	
SAFETY		D PIPIN	COLUMN DESCRIPTION OF STREET,	14.7	
49061 B	77-07	reviewed status	10	Yes	Drould take coedil woder
	77-08	*	30	425	fremovoly verifical.
	77-09	¥	80	105	Topologi. To de the braken
e class constitution delicates accessorate parada a car delicates accessorate	80-26	2	1000	Yes	7- procedures welling reinent
			1		Reg: Obsence 10 activity - 2-activity
49063B	77-10	12	10	147	composely 3. There is a run. 4. Three as
49063B	77-10	1,2	10	Ves Ves	unit I ama food o ou soul
49063B	77-10 7807	1,2		Ves	controlled 3 how pipe your 4. Three as unit 1 Ame food gipe spool feel to be to clean; for cias Hom 19
49063B	77-10 7807 79-19	1,2	10	Ves Ves	controlled 3 how pipe your 4. Three as unit I have food gipe spool feeld foods. for cleans for cine Hoom 19
	77-10 7807	1,2	10	Ves Ves No	Controlled 3 how pipe yours 4. Three as unit 1 Ama food gipe spool fire 1 pool for cine 1 town 1 g 8 of 10 cleans for cine 1 town 1 g Plant well through through the stay handling or stallation, him them 3 c a g
49063B	77-10 7807 79-19 80-26	1,2	100 C 8 0 10	Ves Ves	Controlled 3 Theor pipe years 4. Three as  Unit I have food gipe sport  Fire I to the book for cions Horn 18  Plant well through 1, 2 to b stop  Mondling on stallation, him them  3 & all  Welting in 9 w/65  well being handling.  Mandling in stall in SZ/CT 5 ys

FACILITY

REVIEWER

WOIL

MODULE 48063C	CONTRACTOR OF THE PROPERTY OF	the same of the sa	% COMPETE		COMMENTS .
770676	79-06	+	30	Yei	15936-5.7
	74-16	1	50	Yes	
	79-29	1		Yes	3.E
	80-01	1	60	Ywa	· 82 / 16 69, 7 we doing
	80-03	1	50	Ves	· Many F- Vam & various s · MS/ For welding · NDE - × rame warrens sast
Stew Bo	80-16	1	70	Ves	The state of the s
',	8423	1	90	Yes	Handling/wilds
	81-02	1	90	743	Administration of the second
-	81-06	1,2,3	80		· Hondings
The second secon	781-16	Nema		100	only NOE in operating
Andrew State of the State of th	(81-11)		90	Yes	Handling wort 2 only
THE PARTY OF THE P	81-18	None	90	No	· Handling wort 2 only · NOF Vorigns sast · NO Thing but worthing
~~~~~~~~~~	The second secon	None	90	445	Storage, handling, installed
15.4.5.	82-03				NDE YELL Erage ( two world !)
1906513	75-07	1, 2	10	Yes	CAPTITO, CO BL. GARTIN & BUILDY,
	79-02	1,2	50	Yes	SCTERH Syst vancor, cut; For pipe + well out: NDE CSIAFICC/CT/RH/52 for
SAPETY	KELMTED W	1, 2 ELDING OF B	100 C	Ves	DE Parts bound that, MDE
5.50813	77-09	1,2,3	80	YES	wing item 1 - new west when
-	78-12	1,2	100 €	Yes to E	and a council but, moor du
55083 3	77-13	3 4	10	Yes	I offel to do father front so to kee for after
	78-18	1,2	40	Yes	s.
	79-02	, '	50	Yes	The second secon
	79-19	1,2,3,5,6	80	Ye	The same of the sa
	79:25	3	1006	(*)	interes on enterior 2 described by the constitution of the constit
55083 C	78-13	,			Proceedings Lime of Parans: (1) was
The state of the s	78-15	1	10	127	Post make ment then for my
		1,2*	10		Benis and Karas I This malla
	78-16		20		Reviewed K-Keys. This mally back me fulfill lind than 2.
	78-20	12*	30		TOO. TO THE PROPERTY OF THE PR
	78-22	and the second second second second	30		
	24-01	1, 2*	30	-	
	79-03	1, 2	30		NDE \$ LPT
The second second second second	29-06	1	30		Memoran Apparation of the second seco
	79-13	1, 2 "	50	Consequence of the same and the	
	79-16	1, 2	50		Pipe tun and in spect first four welds in the sur

## IMSPECTION PROGRAM STATUS 7 OF

FACILITY	QUESTION OF THE PROPERTY OF TH				REVIEWER
No.1				91	
UNIT		Postor. In	10-31-106-2501 how ld med 10-51	RECORDS	DATE
MODULE	REPORT	LINE ITE	m % COMBETE	CORRECT	COMMENTS
550836	79-17	None	60	?	Report does mut downer in specting setting
	79-18/	None	60	?	ditto-RCPB on Ly castock contain on any ditto
	79-24	None	60	?	ditto - "
	79-27	-46 M	60	* *	did not find regt
	80-01	1,2*	60	Yes	Note 1 /inc . Com
	80-03	1, 2*	80	Yes	
	80-08	24	80	Yes	
	80-11	1,2*	60	YP)	
	80-15	1,2*	60	40)	
DE COLUMN TO THE PROPERTY OF T	80-16	1, 2*	70	741	Noto: Mega rum in squar
	80-18	1, 2 *	70	1/2)	
	80-20	1, 2 *	80	Yei	
	80-23	2 *	90	Yes	
	80-27	1, 2+	90	Yes	,
	81-01	* *	90	Yes	**
	81-02	1,2 #	90	yes .	
	81-05	1,2"	90	V	
-	81-06	1,2*	80	Yes ?->	5L-7-R3-039 ?
	81-09	1, 2*	80	Ves	*
	81-11	1,2*	90	Yes	
	81-14	1,2*	98	Yes	
	81-18	1,2#	90 1	Yel	
	82-01	1,2*	90	Yes	
550853	79-19	1-6	1000		
	83-15	4	100 8		In dependent NOF by NR
	and the second and th	Cartal Section Commission and Cartal Section Commission Commission Commission Commission Commission Commission			
PROGRAMMENT AND A THE PROGRAMMENT AND A STREET AND A STRE					NATE AND DESCRIPTION AND ADMINISTRATION OF THE PARTY OF T
***************************************	*************************************	Transference with the consequent of the decision of the decisi			
		The second second			
			-		

THOSPECTION TROGRAM STATUS

FACILITY

REVIEWER

No. 1 UNIT

				KECORDS	
MODULE	REPORT 78-12	LINE ITEM	% CO-MPLETE	CORRECT	COMMENTS
REACTOR	COOLANT PI	RESS. BOUND	WELDING	- STATE OF THE PROPERTY OF STATE OF THE PARTY OF THE PART	
5307113	78-12	ALL	100€	4+1	COLUMN STATE OF THE PROPERTY O
and the title was not a construction and a charles were title as every	Spine to the word wines were appropriate to the second	P.C. SENSON SECURITY OF CONTRACT OF STREET, ST			n .

REACTOR	KEPOR	MESS BOUND	6 COMPLETE	CORRECT	2 MM F D
530713	78-12	ALL ALL	WEZBING 100c	4+1	
	78 18				RC
55023 13	78-12	3	10	747	
	78-18	3	10	Yel	
	79-02	2	20	Y+1	RCP- Cold lag FWICE
***************************************	79-04		28	Yel	127
	79-19	1,2,3,6,78	70	Yes	
	79-25	40	80	Yel	NOE
	79-31		80	11.05	
A STATE OF THE STA	80.26		90		(ALL)
	83-15		100 €		· NO MY was absented in
550736	71-13	1 3	10	Y+.\	Reg. to y thousance: (1) 06 carrow welleds (2) NOE comple to well (3)
	78-14	1,	10	VES	
	78-20	1,2	10	Yes	
	71-22	1		Yej	
ASSAULT BEFORE A STATE OF THE S	7501	1,2,4	20		mann long
			20	Vej	cas seal wild-
	79-03	1,2		Yes	Rep (00) 3 • Re 60 0 • NPE 27 5/3 - 00 - 1
AND RESERVED AND ADDRESS OF THE PROPERTY OF TH	79-06	1	30	Ye,	· NDE
	79-13	2	40	Yes	*
	79-16	1, 2, 4	50	X.O.y	
	75-17	1, 2	40	YY	
	79-18	1,2	370	Jr.	
	74-24	2	601	Yes	
	79-27	1,2	60	V.23	
	79-29	1,2,4	60	Yes	
	80-01	1.2	60	Yes	
	40-03	11,2	50	Yes	
	80-08	1,2	60	Yes	
	80-11	1,2,4	80	Yes	The state of the second
	80-15	1 2	20	Yes	
THE RESERVE THE RE	80-16	1, 2, 4	70	Yes	A THE RESERVE OF THE PARTY OF T
	80-18	1 7	78	Yes	provides the advantaged operation of a language review. A security distinguished through a first operation of the contract of
		127	80	1	Note: RAI fid as built
	80-20	1 2 4		<u>Kes</u>	Did of Land, to hat the
	80-27	112,4	80		

INSPECTION PROGRAM STATUS POSE 9 of

MULLITY UNIT

REVIEWER

			% COMBE	CORREC	T COMMENTS
	81-01	1,2,4	80	-	
	81-02	1,2,4	80	Yes	
N CONTRACTOR OF THE PARTY OF TH	81.05	1,2,4	90	Yes	
***************************************	81-06	1,2,4	68	Yes	as built neview
	81-09	1,24	80	Yrs	
	81-11	4	90	10)	
	81-14	2	90	Yes	NOE x-ray of complete in
	8/-16	2	90	44,	1, 1
	81-18	2	90	4,	on soing radio stagly
	82-03	2	90	Yri	
55074 B	80-13	1,2,3	30	Yes	(1) 0 bs. welds & spes (2) 4 2007 pes (3) 0 per to fettion 2 2 2 2 2 (4) NO2
	80-14	1,2,3	50	Yes	in progress 5) post HT
	80-17	3	60	Kes	
	80-19	3	90	Vrj	
55075 3	75-31	1,2	80	Yrs	
	80-25	3, 4	100 €	No	18 NCR mag. but only 10. revise
550763	80-19	1,2	80	Ves	1
	80-28	3	1000	NO	* GNER oug The mo. of
	83-15	1,2	100 P	No	Shert of required no.
			1/		
•				THE CONTRACTOR SERVICES FOR STANDARD ST	
				The second secon	
			Charles of Charles		
				,	

INSPECTION PROGRAM STATUS PORE ID

NO. 1

REVIEWER

DATE

50053 B	77-07 78-05 80-26 77-07 78-05 (78-09) 80-26 78-13 78-14 78-16 78-20	None	% COMBLEIE 10 50 100 C 10 30 50 100 C	Yes No	Does not becament in spect of vessel installation proudu  (3) Prot. of Car in stallation  (4) Prot. of Car in stallation  (5) In place 3 to rage  (7) In place 3 to rage  (8) In place 3 to rage  (9) In place 3 to rage
500513	78-05 80-26 77-07 78-05 (78-05) 80-26 78-13 78-16	1, 26	10 50 100 C 10 30 50 100 C	Yes No K	Bet vessel of the installation  (3) Prof. of the installation  (3) Installation  (4) Installation  (5) Installation  (6) Installation  (7) Installation  (7) Installation  (8) Installation  (9) Installation  (9) Installation  (10) Installation  (11) Installation  (12) Installation  (13) Installation  (13) Installation  (14) Installation  (15) Installation  (16) Installation  (17) Installation  (18) Installa
500533	78-05 80-26 77-07 78-05 (78-05) 80-26 78-13 78-16	1, 21	100 S 10 30 50 100 C	No E	Bet vessel of the installation  (3) Prof. of the installation  (3) Installation  (4) Installation  (5) Installation  (6) Installation  (7) Installation  (7) Installation  (8) Installation  (9) Installation  (9) Installation  (10) Installation  (11) Installation  (12) Installation  (13) Installation  (13) Installation  (14) Installation  (15) Installation  (16) Installation  (17) Installation  (18) Installa
	80-26 77-07 78-05 (78-09) 80-26 78-13 78-16	1 2	100 S 10 30 50 100 C	No E	Bet vessel of the installation  (3) Prof. of the installation  (3) Installation  (4) Installation  (5) Installation  (6) Installation  (7) Installation  (7) Installation  (7) Installation  (8) Installation  (9) Installation
	77-07 78-05 (78-09) 80-26 78-13 78-16		30 50 100 C	No E.	(3) Prof. of an installation  Set vessel for installation  late: but on served completes  Rig: (1) Storage (2) Install
	78-05 (78-09) 80-26 78-13 78-16		30 50 100 C		Ser vessel of Installation later but on survey completes  Rig: (1) Storage (2) Install
500536	78-09 80-26 78-13 78-16		50 100 C		Reg: (1) Storage (2) Install
50053C	80-26 78-13 78-16		100 €		Rig: (1) Storage (2) Install
50053C	78-13	None?	10		(T) In Dial Storder
	78-16	2			
		A PROPERTY OF THE PROPERTY OF			sudget internal inspected &
		3	30	Yes	
	78-22	3	30	Y=J	
	79-03	3	30	Yes	
	74-06	.3	30	Ves	The second distribution of the second
	79-16	3	50	Yes	A CONTRACT AND ADDRESS OF A CONTRACT OF A CO
	79-17	3	60	Yes	
	74-24	<u>3</u> 3	50	constant transportation from Anabasa and A	
~	80-08	3	50	NO YPJ	
	80-15	3	90	747	
	80-23	3	50	Ves	
	81-11	3	90	743	·
	82-03	3	90	Yes	(1) Stone (2) Houdle (3) Enploye
500558	78-05	1	331	1-3	(4) records (work composed (5) Ass
	78-09	12	50	7-2	The second secon
	78-10	2	60	447	Post only documents
	80-26	Mone	(1000	( NO	VA/SC Line Home 4 and
					5 ways not completed
		NOTE OF THE PROPERTY OF THE PR			no dor do comented m
500613	78-09	2a	30	Yes	Canti Ret chair and carried
	80-26	2a	100 0	(NO) .	2019 Apt does out document one of prochases for 1 in torn.  26, 26, 26, 26
500633	78-09	1 20,4,6,8	30	Yes	No 766 to do comment this 18.5
	82.15	1,2,3	100 6	Vis	The second section of the second

INSPECTION PROGRAM STATUS POSLII OP

REVIEWER

				RECORDS	
MODULE	REPORT	LINE ITEM	, % COMBETE	CORRECT	COMMENTS
50063L	78-13	1-	20	Yes	
	78.20	1	30	Ves	
	78.22		30	Yes	
	74-01	1	30	Yes	,
	79.03	1	30	Y-1	
	79.06	1	30	Yrs	
	79-16	1	50	441	
	79-29		50	Yrs	
	80-15	1	50		Inequalism not do we am an ind
	80-23	2.3	50	No	
	81-09	2,3	90	No	to spection in suport not ax.
	81-18	3	90		
	82.03	3	90	ndrag and arrested with the supplete state of the supplete state of the supplete state of the supplete state of	
500658	78-04	1	30	Yus	
	79.31		50	425	
	82-15	Com 1500	100	Vs	
5007113	RELATED 77-09	20 - C	50	VYS	
	78-03	1	80	125	Note: Review of BROA Pgm, NSSSCOMT. procedures
	78-04	24-d	.50	No	should not be 1-55 the 80'
	79-23	2u - d	80	Yrs &	after the inspection.
	82-11	None	100 €	No	5007/B were not married /
50073 B	78-21	2	10 11	Yes	Positive Displace month hong
	75-04	20	10	Yes	
	79-08	26	15	Yes	Pressuriger Satury value 6" Satur Inj Chack Value Four Mo the Control colors
	74-31	26	30	Ves	Four Mo tor Control walnes
	80-05	2 C	60	147	
	80-10	2c Visual	1006	No .	100 % regarded but line item 26 or documented in wice Kp
	87-08	26	80	Yes	Two por undone savalso
766 error	81-18	None			alot in specific
	82-11	None	60 0		component in special down

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REVIEWER

DATE

RECORDS COMMENTS CORRECT LINE ITEM % COMPLETE Electrical of the se had found REPORT MODULE 447 10 78-13 500736 20 Thus fow; 52; (CW pump)

And supply driver value;

From the striked

From the striked

Solito previous command

Sonspection Ret does by the

Cooperation for operations in special

sof i dead. Tied. 78-16 YES 20 78-20 4+2 79.01 20 40 50 Mone 79-06 Yr s 50 74-18 80 Yes 80-20 specific exorponents inspectal 4-1 80 81-06 Four onto walves as under 500738 Ye s 20 Components

not identified in Ryt

100%, reported but ting ithms

20, 26, 2d met inspect

or clocumented on the infort

insurver, notes indicate conti 50074B 79-31 2 d. Ves 24. 60 80-05 100 C No 80-10 Visual of two PORV a one ses only 3 of 4 me point Y+ 3 80 81-08 NO None 1000 82-11 Yes 50075B 10 78-21 1c. Contro! 200 m Vant. From 10 Ve.s 79-04 100. 3 From Atr Control Value Yes 1a 30 79-31 sate in in it stion pumps /a b. c. YES 60 80-05 The Power operated and one safety relief value Yes 80 1a, c, 81-08 NO 1000 None 82-11 four paper values prev. Yes 50076 3 20 79-31 la. cont. soray pumps; boron in jettion and sufety in jet 14 5 16.€ 50 80-05 80 Yes 81-08 la, c Reps / sating Maked NO 100 € Mone (5: x hanges) 82-11 SOO 908 procedured from the straint 50 No 80.29 60 rames) 81-13 81-15 3 b. (2k: 4 60 Some iso confirmed - 6 sugar 20 12.30 81-19 1, 3 Wall), 3d 70 82-05 5038 PI-13 PI-15 PI-15 PI-05 63-4 1006 ×3-19 Line Item Notes: 30 - Ten snubbers 3 21in to mable
3b. Jan fix all snubbers (Spring tage) -103 A6 ? 600 Ten fixed 533 Ir Ten surport composed -30 3 CVC5 5 CKW 23 cT Three to 3d. Twenty records 10 dynamic oficed 5 curs Sct 1051/AF 5 £ 6(mm) 10

MOTECTION INCHERM STATUS POSE 13 of

REVIEWER

				RECORDS	
MODULE	REPORT	LINE ITEM	% COMBELL	CORRECT	COMMENTS
piec an about	.7.5				Lini 3 tom 3
500906	79.13	1,2	60	. Yes	No require 20 120 10110 15 13
	79-24	None	40	No	Rpt did not document.
	79-27		40	4-1	1
	80.04	None	50	10	11 11 11 11
	80-01	Konz	30	No	
	80-15	36 c 4ab	40	Yes	3 b. c. 4.a.
	-90-15		- 40	-	
	80-14	d. 40	50	Yes	ditto
	80-18	3 6.	50	4+1	
	80.20	3.c(h)	50	4.1	3. c.
	80-23	?	40	Yes	ally don't feed on Ret.  Ret comment it no
	80.27	Home	40	NO	inspection of support
	81-01		40	- COLLINSON AND AND AND AND AND AND AND AND AND AN	
	91.02	3 a - d 4 a - h	50	Yes	8
	81-06	3	50	401	2-Large Restrants
	81-09	None	60	*	
	81-14	not identified		Yes	Inspected white partermin
	- 3-03	k 1,	80	PROCESSOR STREET CONTRACTOR CONTR	11 '11 '11
					,
0095B	82-09	021,022, 023 (in part)	60	Yes 021	Procedul result procument
CONTAINME	_	1 1	11		B b, C
53051B	76.06	None	10	No	766 ex rora. e. 550518 reported not 530518
	76-07	ALL	100 C	Yrs	
53053B	76-07	MIL For	10	Yes	one elect manifes not
	78-09	16, c, e	30	Yes	personal match & emerg
Company of Desires	78-19	160,0	40	7.,	Muin steam pened.
	79-02	3	50	Yes	Full on piping punt.
	87-04	1a, c, d	60	443	Elect. Danst. 289, 264,
		16			
AND DESCRIPTION OF THE PERSON	et esquatros de com este que lo come en como				*
7	and the second s			THE PROPERTY AND THE PROPERTY OF THE PARTY AND ADDRESS OF THE PARTY AND	AND
,	87.04		100 €	YeJ	

IMOLICION INDORNA STATUS Page 100 of

REVIEWER

CNIT

MODULE	REPOR	RT LINE TTE	m % Comac	RECORD CORREC	
3053	28-20	*	40	Ve	m1-7 8 m1-12 main teed water & ste am Som block don ma lang, M3 2 211-14
The same and the s	79-01	*	50	Alo	Ret does not do cu manit.
	74.03	76.	50	No	11 (1 11 11
	79-06	76	50	R/v	1. 1.
	79-13	*	00	Yes	m1-4 inspected.
	79-18	*	80	Yrı	Elect. Panetration 15-60
	79-29	*	50	Yes	Elect. Remetration, ES.1.
	82-03	*	100		because difficult to
3055 3	78-09	1 - 3	20	Yes	identity line items inspec
	82-04	1-3	70	Yrs	
	82-15	3 d	100	Yes	The second state of the second
2 VT 51	nucturne	STECL	VGLD, NG		
5051 3	76-06	-	1000	No	766 error entry i.e.
50.53 13	76-01	Mone	10	NO	one smot kined in
-	76-03		10	V = S	6- Linger Plate
*****	76-04	1, 2, 3 4	30	Yes	1 / 5 wolds on
	76-07	1234	40	Yrı	12 6 mar 12/1 to 384
	76-09	1,2,3,45	60	Yes	2 2 2 2 2 (2 sears)
	77-03	2 5	80	No	2 2 2 2 (2 story)
	77-09	2 5	80	Yes	2 Examples - SPIS
	78-10	1,2 4	90	Yes	3 3 ditto
	78-12	Kone	1001	Yes/No	2 2 2
	71-18	Kon	100 2	Y+3	
	81-17	1,2 4	100 0	Yrs	None Money to the Advition
055 8	76-01	None 1	10	AC 9	1,23 45 6 7 5 9 10
	76-07	1,2,3,4,5,6	20	Yo.	6 - SI (SIK WALDS TIME
	76.09	1, 2, 3, 4, 5, 6	30	Yu	x (multiple)
	77-03	2,346	50		Airlock
	78-10	4,67	70	Y+3	0 = 2 = Escage Halo
	78-n	2, 5, 6, 7	1000	Ves .	0003033 Lines 5.800
	78-18	1 6.7	1007	745	04400 4 4 A. W. O. C.
2536	79-29		100 C	40	7444
	82-03		men accorded hill . The consession was		

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REVIEWER

20. 1 PHIT

DATE

Bar .				0	DATE
MODULE	REDAR.	T LINE TO	0//	RECORDS	
SAFETY KE	ATED STA	WILLIAMS WE	ADING MAGIT	CORRECT	COMMENTS
550613	77-08	ALL	100 6	Yes	
	77-13	ALL	100 €	Yes	
55063B	77-13	1,24.6., c, d, ef.	7.0	Yes	No: welds?
	78.19	1,2,3,4			MURE walding
0		5, was not ins	und down	entel.	IR 79-19 regan ted my
551121	75.19	The real of the second	The same of the sa	Ko	in streeten of welding 55.
550636	78:15	*	50	Yes	We do myt ver, by lime item, Us ob commended. We lding we, shot in spectal.
	81-16	bine tom 5	Was 100 1 12 1	ectif or down.	
55064B	82-13	1,2,3,4	1000	Y - 3	with pipe suggest walds
	82.15	?	70	No_	not dant free Moment retter
550653	28-15	20.59	20	NO	de sexibe welds or no in y
	79-02	alone	20	No	+ R Code by t County
	79-19	None	1006		inspection of s. Steel weld.
550668	92-13			10	Love ton 3 and to and
7000	The state of the s	1,2	100 €	No	the noncontormones not down.
	12.15		70	No	four sheet platforms which opposer to be bolhed.
	83-15	2?	1007	Ho	(All of line item)
					and or decumented
					and it will in frided.
				*	- 0 x 55064 is structure
					raquire in southing
	***************************************				of wil ding while
					In 82-15 documents
			111		bolting of steel
					structures which
				1	under 47063 B
				\	or 44064.
					127. 51. 011
					- [ Nate: Should be
	***************************************				regarded under 50090 Bis supports
					50070 B de supports
					mestra intx, ect
					14/50 appears that by offs. It wen don
			***************************************		offs. to wen dor.
					time items 1-5
	***************************************				not done.
		1	1		

INSPECTION PROGRAM STATUS Page 16 of Error tond 2 3/12/51 REVIEWER UNIT STEEL STRUCT. \$5 152-55154B IN82-07 DATE 100% RECORDS MODULE REPORT LINE ITEM % COMBETE 57558 NOT Applicable (MA) COMMENTS CORRECT NA BENETUN COULANT LOOP WELDING PRUCEDURE NA REACTOR COOLANT WER (ALQUE IN Maty Control RCP - Observe alelding 5517313 NA-RCP Visual Bram of Wolds RCP -5517513 NA -WELD HEAT TREAT RCP NA -5517613 WELDER OUM RCP DONE UNDER OUD 55777 3 82-04 PG My. NA-5551413 -1883

REVIEWER DATE RECORDS REPORT LINE ITEM % COMBER CORRECT 5514813

HSPECTION TROGKAM STATUS Page 18 0+

REVIEWER

174-03.74-04 75-0175.00

استربال					DATE
WNIT				RECORDS	DUIL
MODULE	REPORT	LINE ITEM	% COMPLETE	CORRECT	COMMENTS
Management of the second of th	omp 4 54				B. f. QA M for and
510513	77-13	1, 24, 22	10	Yes	References QH man and new en. 647 35100 mg / kg Till Broke thought sice 5th
3103110	74-04	1	10	4-5	and cape nong rough s, man
	7914	26	50	Yes	
	79-23	2 a b c e	80	743	13 proudures
and the state of t	74-28	2 ( various)	90	Ye.s	and an orone
	80-17	None	20	No	ms seview do cum enter
	82-11	None	1000	Y+J	made by good of the same and advantage
51053B	78-07	16.	20	Y4)	Storme D.G.
Rp+ Ditl. Rock	£ 79.28	16	30	Yes	Installation of WYDVAC
· 510568	80-26	2.3	70	Yes	MIC of S. 9 S NOK : 35.
<del>Coross</del>	81-07	None	70	Yes	I was am it a man i be interest to the dist
	83-19	More	70	Yes	Che complete out change as Nills: FA T Finish Co. 1. store 2. Install 3. MT & a. ma
510536	78-13	16. 1 f of la- n	10	Yes	1. store 2. Install 3. Mile 4. Ma
	75-16	36 1 2 2 5	10	Y P.J	I would be no het shut down
	mysy 79-18_	1m: 12f	10	Yes	Handling Myt shut down pany I . JE Bathery reck
	Jan 80-01	2a, f'	40	Yes	Inspection of the receipt
,	80-08	2 5	30	Yes	2006 pulling in specter
	80-18	2 f, c	50	Yes	Storage of , mcc, cor.
	80-20	16 d.f. L.	80	Yes	room panelicable la!
	81-01	2a,b,d,fe	80:	Yes	Stored loguip governt
	81-18	2+	9011	Yrs	Me Corand manual 1 1 m 3 ph
	87.01	None	50	Mo	instrumentation mut conformations not ins
51054B	79-04	2 (in part)	10	Yes	
,	80-26	None	50	NO NO NO	This report only comments in specting instruments / Tub
	81-07	None	50	transle A/O	510538 live itam. De motto
	84-10	None 16 (for D.G.	98	l No )	Components not in exactive
510553	71-07	b (for D.G.	20	Mo, Bienel Gam	Maria Kada 1 Adam and we was
	79.04	None	20	Nog Charge to	Complete Man to to the service of th
	90-07	Hone	10	No only instruments yes	10 spectul-net compose
	8017	3a,d, ,b	70	No for invertelly	Rot downwants in sent in
	80.50	None	70	No	Ret does not downand
	82-11	None	1000	NO	review of records

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REVIEWER

No. 1

DATE

UNIT					
0711				RECORDS	
MODULE	REPORT	LINE ITEM	% COMPLETE	CORRECT	COMMENTS
	79-28		20	Yes	only instrumentation
5105613	1 - 10	1		/-	1 or spected - not con
	80-26	Alone	50	No	Com + makes a colored
	841.10	None	90	No	for 51054 B. Rot days
ELECT	CABLES	4 TERMIA	nTIONS		
		*	10	Yes	+ CA manual
5/06/B	77-13	1,26.C 2a,c,2			
	79-04		10	Y+5	
	74-14	26, 0, -	1,0	Yps	Provide me s revige not
	74.19	Nore	20	Alo	documented not
		26, C	40	4-5	
	79.25	20,6,6,0	90		4.00 procedures revenued
	79-28	2 6		147	6-ce c procedures
	80-01	The state of the s	90	Yes	
	80-13	26,6,6	90	Ver	Rpt d.d not document
		7	90	Yes	procedures review
	X0-21	3		Yes	D. Hu a bone
	80-24		90		D. Ho a base
	81-03	7	90	Yes	
	82-15	2 d(3)	1000	Yes	20. Stor 26. Mat Combil Cinstal
	77-13	2 -	10	423	
5106313		26.(6)	10	40	Inspect & rable tray Supple
	79-14	2,a,b,c(1)	Anna Carlo C		we cables not stated nor
	74.19		10	Yes	Come cable in spectral is a simo to I at the But do cumments
	79.25	2. c (1)	20	Yes	Binotollation But do comments
entropia de la companio de la compa	80-13	2, 6, (4)(6)	20 1	147	161061 16 Cuble EU0000 3 177, 10,
	1	2 a. b	20 11	Yrs	Pull cards + records for 30 cables reviewed.
	80-21	120(1)(6)	60	13.00	11 cables - Type?
	82-24	2 0.(8)(4)	AND THE REST OF THE PARTY OF TH		8 pur . Termination in spe
82-15 in action	8209		100		5 controll celibrated tools
^	74-06	* Not verified to "C" Pam but	B'10 40	Yes	cable hay still of trans
510636	and the course of the course o	2.c (1)(3×6)	10	Yes	· Cable from special com special
	79-18	2.6(2)(3)		1 Ks	1.20 perly though to come
	79-24		10		Ravisonal specification Es.
	29-27	100	10	Yes	
and the second second second second second second second second second	79-29		-		AND LI MILYERS HIS
and the second s		26.(1)(6)	10	Yes	OSR cable MCC X & B-3 to Se pet Intak BID SR Cable
ade datas es de colonidad de constitución de la districtiva della	80-01	26.(1)(6) 28.			Swith Roman to bettery the Court of 18 web calelle in special
And the second s	80-03	. 20.(11(6) 20	1 70	1/4)	
	80-08		30	Y-63	ditto
	80-11	20(5)	40		"Term not in man control cuts on the cabo pull

- HOPECTION PROGRAM STATUS Page 20 of

REVIEWER

MO. 1					DATE
UNIT				RECORDS	DAIL
	0		0/ (		COMMENTS
MODULE	REPORT	12.e(1)	1 % CO-MARTY	CORRECT	- cable pulls com spec tied ( +2 -
51063C(Ca	nfd) 80-15		50	Yes	-cable tray install
minim ?	80-16	Name ,	60	Yes	-
	1	26(1)	1		Corblas un specificad
× .	80-18	, 2 & (1)	60	145	· Cable pulls con specified
	80-50	. 20 (3)	80	Vos ->	· cable pulls (un specifico ) obs
	80.23	. 2 (1)	70	Yes	I . @ BY COC " soron, to " Da ( C hours
	80-27	none	70	40	. Review O Konile would test
		24	80	743	ible tric to ble storage
	81-05	2 (3)	1		Protect cable in trags
	81-09		80	Y = 3	Cable pull lubr. flam mable
	81-11	none	90	Yrs	1" Yallow 77 - 50.5) &
	82-03	2 C(1)	90	Car	catse gulls 16 burnes
		2 d	1007	Yes	Cornertud action
	83-03	20 (1) (3)			\$30 cables pull cards insquared to be considered but 1991/3 when the purious to be t
510648	(80-21	2 6 (1)(5 (2)(3)	20	Yes	thor i conditied but 1 po 1) were
INSPOSSION AND	Je 7 80-24	(6) 2c.(V)	60	Yes	8 pur Terminations insput
I DOLLAND AN	(82-09		100 €	Y+5	File PVAI
51065 B	80-21	26,26.(3)(4)(	5) 30	Yes	ten instrument cables and termination; - RPS(9) + SR(1)
•		3. a b e	40	Yes	changes to design & NCK;
€ 79-19 26 € 80-13 2 (	Produs 80-24	2.6(3)(4)(5)			10 ca des review est i mage it in 1911 ton
2000	Miskes) 71-03	2 b.(1)(1)	50	Yes	12 Dwy Jan Denny 1/1 +:
	82-15		70	The second secon	9 control 3 NOS . Meggar/Contin
	83-19	28(1)(2)(6)	90		23 pur/cont cables .
COLUMN TO SECURE AND A SECURE	pag-10	*	1000	Yes	Cable Spread Room
			THE REAL PROPERTY OF THE PARTY		30 cabres: ER, MRR, RIR
51066 B	80-21	*	30	10)	DCA, NCR, FOR, IRN
	80-24	*	4011	147	
	81-03	**	50	Yes	84-10 set. 14:4 d
	82-15	*	70		Review 12 per of 9 control cables
**************************************	83-19		90	Yes	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
		A CONTRACTOR OF THE STATE OF TH			Vary large No. [ NC 18 1; And
	84-10	ALL	1000	Yes	
Instru	em entation	( Compos	unts & Sk	gstems)	La Edward in Rec. 1 Stov. Hand.
520513	79-23	K25.	60	Yry	a tour b. Rec. , stor. Hand.
and the same of the same of the same	80-07	24, b c, d	60	Yrs	12 procedures
		2 0			5 pro ushines
	80-26	,	100 €	741	5 prosed wer - 2 oper
	81-10	-	1000	142	
		The same of the sa		***************************************	The second secon
		· comment	1		Autografication residentialistics - relational appeals are relational experiences.

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NII				RECORDS	
MODULE	REPORT	LINE ITEM	% COMBET	CORRECT	TIRPS 12. ESF & Plant Can.
52053B	80-07		(0)	Y*)	mountail instruments: CCW
3 - 42 3 5	80-26	1.0;6;6.11)	50	Yes	(8); (7 (1) (2023 (7)
	DELTA DA MARIA ARREADA DE PARTO ANTIGO DE SAN PARA LA CARRACTURA DE LA CAR	1. a; b; c(1)-16)	70	Yra	Instruments: RWST level; contr.
	81-10	1.2 16; 41-191-	The second secon	Yes	Flow to Children Die self her
	8-3-38	8'- Program C	not verities	Yes	· rastronants out dent
52053C	80-18	16121	20	167	1
	80-20	x De not would	90	Yes	weal trace profesion from at you
	81-11	I'M HOUTS US RAT	80	423	Allegalum cable spille
	83-03	Ser about	ry a Leasurement and the same of the same		See 52053 B a bone for a
5205 × B	80-26	Su above	20	Y = 3	See \$ 2053 0 for equil.
	81-10	2	50	7+1	RPT done not docum aget
	84-10	# De not review	90		cold pull in spiritual
520546	80-18	11 hy 11 ems 45 Rpl	10	1/0	· 118 VAGE DIST 1 bet in fam
	80-20	*	20	Yes	118 VA G DIST 1 bet con for your 52055 B for compound
52055B	80-26		50	Yel	See 52054 for way men
	81-10	1.2kg), (4/d)	50	Yes	10 instruments
	83.35	1;25, d	100C	145	See 520533 for congre
52056B	80-26	1,20(1)(3)	20	741	Su 52053 B 15:0505
	81-10	1; 20,60	50	Yus	10 193 truma 5 5:0 5205
	84-10	?	90	?	
INSTRUM	NEW TATION	((ABLES		NATIONS )	See Electrical
520613	79-04	*	10	Yes	* verified the
	79.28	*			previously under
	80-13	*	90:	A 10 12 12 12 12 12 12 12 12 12 12 12 12 12	510613
	81-03	*	901		
	82-15	+	100 €	V	I cable pull y creditan
52063B	. 80-13	* *	10	Control of the Contro	cable pull credition
the self-	83-13	* *	60		
Control of	83-15	The second secon	40	14)	This month has an in
AND THE RESIDENCE OF THE PARTY	84-10	* *	1000	Y+5 * #	with worth way
- Care Care N. Maria and Care Care Care Care Care Care Care Care	and the same of th		THE STATE OF THE PARTY OF THE STATE OF THE S	,	the ched how of
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RECORDS

REPORT 80-11 80-18 80-20 81-02 81-02 81-09 83-13 83-19 84-10	*  *  *  *  *  /*  /*  /*  /*  /*  /*	% COMBETE 30 80 40 80 80 90	Yes Yes Yes No Yes Yes Yes	cape mention and not construct that it was to compare the cape of compare the as in specifical consistency in specifical constructions.
80-11 80-18 80-20 81-02 81-09 83-13 83-13 83-19	*  *  *  *  *  *  *  *  *  *  *  *  *	30 80 40 80 80	Yes Yes Yes No Yes Yes Yes	cable mentioned not construct the cable mot do comparted two rable by in spected consisted in spected in spected in spected.
80-18 80-20 81-02 81-05 81-09 83-13 83-19 84-10	*  *  *  *  *  *  *  *  *  *  *  *  *	80 80 80	Y 4 5 No Y 4 5 Y 4 5	cable mentioned not constitute as inspected was rable by in spected con my solved in spected in species in spected in species in spected in spe
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\$1.02 \$1.02 \$1.05 \$1.09 \$3.13 \$3.19 \$4.10	7 7 1;26(1)(12)(3) (5)(7)(8) 4 7	80 80 60	140 Yes Yes Yes	en so solved 11-1th
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83-13 83-19 84-10	1;26(1)(1,(3) (5)(7)(8) # *	80	Y-5	inspected with a
83-19 84-10	(F)(7)(8) * *		-	= 75 cubly
83-19 84-10		90	1	
Marie Province Academic Province Academic Academ	* *		103	C Callinia Comment
81-02		1000	Yry	See previous comment
0,00	* *	10	· Yes	15 cables records
83-13		60	Xes	9 Cables
83-15	26(1)(2):010	90	Y~ 1	
NAME AND ADDRESS OF THE PARTY O	V	1000		See comments about under sel-10 il 5206
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	26(1)/21 0.0			grable,
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Compone	WIS & SY	stoms)		Imput impulse tubing
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80-27	*	10	1 / 7 /	qual to 363
81-01	*	40	745	corresolul item uslese
,	*	40;	Kes	Cable not i dent fix of
rangus service troopida roduce uno servicamente estado	*	5011	Y-4 1	
2011-101-101-101-1		40		but not identified
12-03		*		
		AND DESCRIPTION OF THE PROPERTY OF THE PROPERT		
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		agent de litera e magaza, es deserbi e e comenzado, sem quien apripar		,
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	83-15 84-10 83-13 83-19 81-10 Compone 80-23	81-03	81-03	\$1-03

## UNITED STATES NUCLEAR REGULATORY COMMISSION PECTION & ENFORCEMENT - STATISTICAL DA

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*******	NUMBER OF	ENT CONFERENT NONCOMPLIANT OF VIATION ITS	ICE HELD: 1 C	LETTER TO LICE	00	CONTRACTOR ACTUAL ACTUA	PE: CMANGE MI ON 766 WHE CITED ITEM	OF MONCOMPLIAN LY GELETED FROM	NAMES OF TAXABLE PARTY
0 2 8 -	NUMBER OF	ENT CONFERENT NONCOMPLIANT OFVIATION ITS	ICE HELD: 1 C	LETTER TO LICE	42 43	46 45	CITED ITEM	OF MONCOMPLIAN LY GELETED FROM	NAMES OF TAXABLE PARTY
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0 , 0	NUMBER OF NUMBER OF NUMBER OF NUMBER OF 1 C NON- 17 CONTENT	ENT CONFERENT NONCOMPLIANT OFVIATION ITS	ICE MELD: 1 CONCE ITEMS IN LETTER  NTS  OOR (No Fee)  IMATION  OR REPORT T	A TO LICENSEE:	1NE (No Fee)	3 C ROU	TINE (Fee)	INEVER PREVIOUS OF NONCOMPLIAN LY DELETED FROM O.  4 C ROUTIN DIATE ACTION L	LY HCS M  EFFER  ETTER
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0 , 0	NUMBER OF NUMBER OF NUMBER OF NUMBER OF 1 C NON. 47 CONTENT REGIONAL C 19 TYPE A 01 C INTERN 02 C EXTERN 03 C RELEAS	ENT CONFERENT NONCOMPLIAN OFFICE SET EN ON FEE ROUTINE/VENO OFFICE LETTER ON LETTER IS AND CONFERENCE OFFICE SET ON LETTER OFFICE SET ON LETTER OFFICE SET OUTPER	ICE HELD: 1 CONCE ITEMS IN LETTER  NTS  OOR ING FOOI  MATION  OR REPORT TO  SUED TO LICE  13  TYPE  BURE OG CO  SURE OF CO  SURE OF CO  SURE OF CO  AREA OF CO  AR	RANSMITTAL DI	THE (No Fee)  TO YES  ATE FOR INSPECT  RT SENT TO HOS  STIGATION ICHE  FR 20 406  EVEREXPOSURE  DVEREXPOSURE  STRONG LEVELS  STRONG LEVELS  STRONG LEVELS  STRONG LEVELS	3 C ROU 3 C ROU TON OR INVE FOR ACTION 39 CX ONE SOX 15 C CI 16 C LC 17 C M	TE: CMANGE MINON THE WINE CITED ITEM IS OFFICIAL THE RECOR	MISC.	LY  4C8  M  EFFER  55
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MEMORANDUM FOR: D. R. Hunter, Chief

Reactor Safety Branch

THRU:

D. M. Hunnicutt, Chief

Operations Section

FROM:

H. S. Phillips

Senior Resident Inspector

Comanche Peak

SUBJECT:

REVIEW OF NRC MANUAL CHAPTER 2512 INSPECTION PROGRAM FOR

COMANCHE PEAK

R. L. Bangart, Region IV Task Force Manager, requester a review of the subject program because required inspections were not listed in the summary of 766 Data which shows inspection progress. The assigned task included a review to determine that each procedure was inspected and inspected against procedural inspection requirements or line items which was in turn documented in inspection reports. Also, the 766 Data Forms were checked against the 766 Data Summary to assure correct input. The purpose of this review was to assure that the NRC inspection program was completed for Unit 1 and to be able to so state this during the hearing process. A secondary purpose was to assess the status of the Unit 2 inspection effort. QA 2511 preconstruction permit

inspection of QA was good. The review of Unit 1 data revealed that NRC Region IV inspections (as required by Manual Chapter 2512) of the applicant's quality assurance (QA) Program was weak or nonexistent after the QA Inspections for the construction Permit were completed in 1974-1975. The corporate office was never audited in depth from 1974 until the task force performed an audit in August 1984. During the NRC corporate audit long standing program violations were identified. In 1978 NRC Vendor Branch Report 9990524/78-01 stated that the applicant's vendor control program appeared to be breaking down and an NRC inspector followed up at site and documented the review of a vendor list and status of vendor QA program. This inspection documented in report 78-09 did not satisfy the NRC inspection requirements of Procedures 35020B "Audit of Applicant's Surveillance of contractor QA/QC Activities." The basis for closing this procedure was not subsequently inspected for unit 1 or 2 vendors. Since a number of NRC special OA review/ inspection such as the Technical Review Team have been performed and credit for these may be applied to satisfy these QA inspection requirements of MC2512 for Unit 1.

NRC QA reviews and inspections of Unit 2 were less effective or adequate than for Unit 1. However, in this case special credit may not apply to Unit 2 because some of the QA inspections were specific to Unit 1. Also the opportunity to inspect Unit 2 to assess the applicants vendor surveillance, QA inspection OP as-builts, procurement and storage/receiving, and current site QA programs still exists. The NRC QA review/inspections of Unit 2 are a high

priority i.e., surveillance QA/QC-35020; in depth QA inspection-35061; procurement receiving/storage-35065; and review of Bahnson/Westinghouse QA Manuals-35100.

The remainder of the MC 2512 inspection procedures for the various disciplines (civil, mechanical, and electrical) pertaining to Unit 1 and 2 were reviewed and the following was found:

- The inspection effort for Unit 1 was generally found to be acceptable and as required by MC 2512; however, the 766 Data Summary does not demonstrate this. For example, 45061B (Lakes, Dams), 46051B (Foundations), 47051B (Concrete), and Containment (Welding) which require review of the applicants procedures is not documented but I found reports that show inspection was done. All of the MC 2512 Procedures were not completely inspected i.e., most were 90-100% but a few were 20-30%; however, the manual chapter does not require that a certain percentage be completed.
- The inspection effort for unit 2 is not commensurate with the construction status IE Inspection effort is behind. The effort was severely impacted during 1981, 1982, 1983, and 1984 because of inspection emphasis placed on Unit 1. One exception is welding as it has received adequate attention.

It appears that the opportunity to inspect/observe some mechanical work activity in process may be lost. One significan area pertains to the installation of the Unit 2 Vessel which happens to also be a part of

Contention No. 5 in the ASLB hearings. The inspection of this area is weak because the report (80-26) does not document observation of work and review of records. It does not give support or show that the NRC reviewed the installation procedure.

Inspection procedures which need attention are: safety related Components - 50073, Pipe Supports - 50090, HVAC System - 50100, Containment Penetrations - 53053, and Electrical 51053/51063.

The review of the summary of 766 Data (as of October 23, 1984) revealed that there are many errors in the data and missing data. The status of inspection or percentage completed was often not supported by or documented in NRC inspection reports. Details of this review are attached.

H. S. Phillips
Senior Resident Inspector
Comanche Peak

Attachments:

Evaluation of MC 2512

Inspection Program for CPSES

## EVALUATION OF COMANCHE PEAK INSPECTION PROGRAM

## 1. QA Program Review Unit 1

The NRC inspection program at Comanche Peak relative to quality assurance between 1974 and 1984 was weak. That is the IE Inspection Program to inspect the applicant's QA program was less than adequate based on the following:

- a. After the construction permit was issued in December 1974, no comprehensive inspection of the corporate management was performed until August 1984. As a result there was not evaluation of corporate offices to evaluate how effectively the Comanche Peak QA Program had been implemented. Also the applicant's audit program, which was implemented by corporate auditors only, were in noncompliance with their commitments and Criterion XVIII, (Failure to Audit), and Criterion II (Failure to Assess the Status and Adequacy of the QA Program) from 1974-1984.
- b. The Mid QA Inspection, as required by Manual Chapter (MC)2512 and Inspection Procedure 35200B was neither comprehensive nor in sufficient depth to properly evaluate whether or not the applicant's program was effectively implemented (when construction is about 50-60% completed).

Usually this inspection is performed by the project inspector and three discipline inspectors over several weeks (two weeks preparation, one week inspection at the corporate QA offices). The Mid QA Inspection at Comanche Peak was conducted by two NRC inspectors during the period December 18-20, 1978 and 36 inspector hours were recorded under IP 35200B. Less than a manweek was expended versus the usual 5-8 manweeks; and it appears that the electrical discipline was not inspected adequately.

c. Audit of applicant's surveillance of contractor QA/QC activities 350203as a result of vendor branch IE Inspection Report 990524/78-01 (which
stated that the applicant's QA program concerning vendor control
activities appeared to be breaking down) an inspection was conducted
and documented in IR 78-07 by the resident inspector.

Other than reviewing a list of vendors and status of vendors QA program and manufacturing (documented in IR 78-09) no further inspection occurred to assure that the applicant's control of vendors fully complied with Appendix B requirements.

In 1984 two NRC inspections identified potential and subsequently violations concerning control of vendors. The applicants control of vendors has remained in question since 1978.

The Region IV inspection did not ascertain whether the applicant's QA program relating to surveillance of contractors assured proper control of vendor and corrective action concerning an apparent QA program breakdown.

- d. Management Meeting Construction Quality Review IP3005113 This annual requirement to discuss (1) quality of construction (2) GA program implementation (3) QA/QC staffing (4) preplanning for complex work activities was held in October 1980; however, it was not done and/or documented in 1981, 1982, 1983, and 1984.
- e. Audit of the applicant's management of the QA program 35060B This inspection of the applicant's management was required every 18 months since August 1980. The purpose of inspection was to evaluate the effectiveness in implementing the corporate QA program for ongoing activities of design, rocurement, and construction.

This inspection should have been performed twice between August 1980, and June 1983, but was not performed until August 1984, when the RIV Task Force performed the inspection.

f. Audit of site work activity and the QA/QC program 35061B - This annual inspection of site work activity and the QA/QC program was to assure that safety related work was properly controlled. This

inspection should have been accomplished in 1981, 1982, 1983, and 1984. The NRC CAT Team accomplished the equivalent of 30% in 1983, and the Region IV Task Force performed this inspection in Mid 1984, but there was very little work in progress on Unit No. 1, Unit No. 2 was not inspected.

The inspection of as-built drawings versus plant configuration in one electrical and mechanical area identified violations; i.e., drawings did not match configuration and inspections did not identify these departures from drawings and specified tolerances.

g. Procurement, receiving, and storage 350658 - this inspection (required) by MC 2512 annually since 1980) of site procurement, receiving, and storage was not inspected under the routine program in 1980/81, 1981/82, 1982/83, or 1983/84.

The CAT Team Inspection in 1983, covered 30% of the required inspection and the Comanche Peak Special Review Team Inspection may be counted toward the 1983/84 inspection of procurement.

h. Review of QA Manuals 35100B - This inspection procedure requires that each contractor's QA/QC Manual be reviewed and evaluated once in conjunction with NRC review of civil, electrical, and mechanical procedures which control work activities.

IE Inspection Reports document pending TUGOO input incomplete such reviews for all contractors on site except Bahnson (reviewed selectively) and if Westinghouse

The above paragraphs describe inspections that were missed for Unit No. 1 and the opportunity to inspect is lost; however, the following special inspections have occurred and provide assurance that these or similar inspections were performed to assure that the applicants QA program was and is adequate or identify deficiencies.

Special

Inspection

Construction Assessment Team - IP35061 - 30% per IE ltr. dated Jan 24 - Feb. 4, 1983

April 27, 1983 ID 35065 - 80% Not in same 1tr

Note: Not in 766 Data

Comanche Peak Special Review Team Report April 3-13, 1984

This report dated July 13, 1984, documents an extensive review of QA/QC activities relating to design, procurement and

construction. The line items of IP 35061B and 35065B were inspected during this comprehensive inspection.

Note: Not recorded in 766 Data.

Region IV Task Force Inspection

July 19 - Mid October 1984

Inspection Report 84-22/07 documents the inspection of IP 35061B. Also a number of QA Manuals were reviewed.

IR 84-32/11 documents the inspection of IP35060B. The scope of 35020B was limited to site contractors.

NRC Technical Review Team

July 9 - Mid October 1984

This inspection by over 100 engineers and technical specialist thoroughly covered the QA/QC function and may be counted toward and satisfy IP 30051B, 35061B, 35065B, and 35100B inspection requirements for present and past work.

- 2. Manual Chapter 2512 inspection program of Unit 1 site work
  activities This program requires NRC inspections to (1) review specific
  QA/QC implementing procedures, (2) observe current/past work, and (3)
  review of records pertaining to civil, electrical, and mechanical work
  activities on site. The program accepts the premise that all inspection
  procedures may not be completed. The 766 data run dated October 1984,
  was used to evaluate the inspection procedures line items inspected and
  documented in inspection reports. The following are the results:
  - a. RIV Inspection Reports document the review of inspection procedures such as safety related piping (49061B) and other similar procedures; however, the following procedures reviewed were either not recorded in the 766 Data System and/or documented in inspection reports:
    - (1) take out 1984 data run for 766 information did not document inspection of procedures 45061B, 46051B, 470513B, 48051B, and 55051B but reports were found indicating these inspections were performed but were not recorded on a 766 Form or in one case the data group failed to enter.
    - (2) The following reviews of procedures were either not completed or documented in inspection reports: 450518, 500518, 500618, 5500718, and 500818. Procedures 50051, 50061, and 500718 were reported 100% inspection of line items but reports documented inspection of 50% line item procedures.

- b. RIV inspection reports document the observation of work activity on site for the following areas as follows:
  - (1) Site Preparation 766 Data Form, IR 78-04 Report, 80% completed. Only procedures and records inspected.
  - (2) Lakes, Dams Inspection completed (IC)
  - (3) Foundations IC
  - (4) Concrete 766 Data Run shows no entries for 47053B, yet, IR76-06 shows 766 Form - 100% and plant progress 11.7% Unit 1 and 1.5% Unit 2.

Also found documentation of inspection in RPT 75-12, 75-11, 75-10, but not in 766 Data.

47054B - IC

- (5) Containment Steel IC
- (6) Structural steel supports 480638 Report 766 Form reports 100% but reports document 20%.

(7) Reactor coolant pressure boundary piping 490538. In 82-11 reports 100% but all line items were not complete/documented in the report. IR 79-25 showed 90%.

490548 - IR 80-19 and 82-11 report 30%.

(8) Safety related piping 490638 - IR 80-26 reports 100% but supports 1 documents 80%.

Note: Considering all resident inspection may consider 100%.

- (9) Safety Related pipe welding IC
- (10) Reactor Coolant pressure boundary pipe welding

55073B - IC

55074B - 90% completed.

- (11) Reactor Vessel IC
- (22) Reactor Vessel Internals IC
- (13) Safety related componenets 500738 60% completed 500748 - Approximately 80% completed.

- (14) Pipe supports IC
- (15) Fuel storage racks 50095B 60% but understand D. Hunnicutt recently completed.
- (16) Containment Penetrations IC
- (17) Containment Penetrations IC
- (18) Containment structural steel welding 55063-B 100% reported but reports support document 20%.
  - 55064B Ditto above 100% vs 70% completed/documented.
- (19) Electrical components/systems 51053B 70% completed.
  51054B 90% reported 50% documented.
- (20) Electrical cables/terminations IC
- (21) Instrumentation (componenets/systems) 52053B IC 52054B 90% reported 766 50% documented.
- (22) Instrumentation Cables IC
- (23) Preservice Inspection IC.

The overall observation of work appears to be adequate with a few exceptions. Not all of the inspection procedures line items were 100% inspected and completed; however, the manual chapter recognizes and allows that all procedures may not be completed.

Considering the allowance the following percentage completed appears to be too low (1) structural steel supports - 20%; (2) reactor coolant pressure boundary piping (49054B) - 30%; (3) containment structural steel (55063B) - 20%.

The major problems found during this review were as follows:

- (a) Reports in may instances failed to document the inspection to demonstrate that inspection procedure line items were inspected.
- (b) The percentage complete determination requires some judgement, however, some judgements appear to have less basis than needed.

Note: This is also true of review of procedures and records.

These slight weaknesses appear to be well compensated or by work observed and documented in the special inspections previously referenced in Paragraph 1 above.

- (c) RIV Inspection Reports accument the NRC review of QA records. The review of records for all discipline procedures were completed and adequate except as follows:
  - (1) The 766 Data shows 0% complete for 45055B.
  - (2) For concrete 47055B the 766 rep .\*s 100% but the reports do not document the inspection of line items. The same is true of 47056B, i.e., the last accurate report was 70% but 79-04 Report of 100% was not documented.
  - (3) Containment Steel

    100% Inspection of Line Items Report
    70% documented.
  - (4) Structural Steel Supports 100% reported - 10% documented.
  - (5) Reactor Coolant Pressure Boundary (55075) 100% reported line item on nonconformances only 10 of 14 nonconformances reported.
  - (6) Reactor Vessel 50055

    100% reported 60% documented

- (7) Safety related structural steel welding 100% reported 20% of line items inspected documented for 550658. 100% reported on 550668 - 70% documented. Nonconformance and audits line item not completed and/or documented.
- (8) Electrical components and systems 100% reported - 20% documented for 51055B.

90% reported - 20% documented for inspection of line items of 51056B.

The records review and review of procedures appear to be the weakest area i.e., NRC review of procedures, observation of work, and review of QA records.

3. QA Program Review Unit 2

The comments on quality assurance also apply to Unit 2 as a review of one unit usually satisfies QA Program Requirements for both units. The following comments pertain to review of the applicants QA Program by NRC.

- a. See comment on Unit 1. No Action Required.
- b. See Comment On Unit 1. No Action Required.
- c. See Comment On Unit 1. Action Should Be Taken.
- d. See Comment On Unit 1. Action should be taken.

- e. See Comment On Unit 1. No Action Required
- f. See Comment On Unit 1. Action Should Be Taken
- g. See Comment On Unit 1. Action Should Be Taken
- h. See Comment On Unit 1. Action Should Be Taken.

Based on the review described above and under comments on Unit 1; the following QA inspections should be accomplished as soon as practical:

- (1) Inspection Procedure (IP) 35020 B Surveillance of contractors QA/QC,
- (2) IP30051B Maintenance meeting, (3) IP35061B In depth QA inspection (as-builts etc.), (4) IP35065B - Procurement, and receiving/storage, and (5) IP35100B - Review of Bashnson/Westinghouse QA Manuals.

As previously stated in comments on Unit 1 the QA reviews required by NRC Manual Chapter 2512 were either not done at all or were inadequately done.

- 4. Manual Chapter 2512 inspection program of site work activities for Unit 2 -Inspection consists of (1) reviewing QA/QC implementing procedures, (2) observing past/present work, and (3) reviewing records of work.
  - a. Review of procedures NRC reports and a 766 Data Summary were reviewed. The following were either not completed or documented in the 766 Data.

(1) NRC Inspection Procedures \*45061, \*46051, \*47051, \*48051, \*\*49051, \*50061, \*505051, and 55151, showed zero inspection time.

\*Not reported in data but reports found for Unit 1, therefore, take credit.

\*\*Done for unit 1 so take credit Unit 2

(2) Procedures 49061, 55081, 55071, 55071, 55062, 55171, and 55181 pertain to safety-related or reactor coolant piping and the 766 Data shows them as 80% complete. These were last inspected in 1977, 1977, 1982, 1979, 1977, 1980, and 1982 respectively.

Ideally these would have been completed shortly after site work began.

(3) Procedures 51051, 51061, 52051, and 52061 pertain to electrical/instrumentation. They were last inspected in 1979, 1980, and 1981 respectively while 52061 was not inspected. The percent complete is 5, 90, 90, and 0 percent respectively.

These should have been completed shortly after work began (except 52061).

(4) The 766 Data Reports 50051 (vessel installation) as 100% complete in IR 80-26 but this report does not document inspection of vessel installation; however, it does document inspection of vessel internals. As required by 50061.

Therefore, the 766 Data shows no inspection of 50051. This pertains to contention 5 of the Comanche Peak Hearing i.e., placement of Unit 2 vessel.

- b. Observation of site work activity and records review. The October 1984 summary of 766 data and pertinent NRC reports were reviewed. The status of NRC inspections are as follows:
  - (1) Site Preparation IP45055 (records) shows zero.
  - (2) Lakes, Dams IP45063/45065 100%
  - (3) Site Prep/ Probably not applicable Foundations
  - (4) Structural concrete IP47053/50 (work) 100% and 47055/56 (records) 100%.
  - (5) Containment Steel 1P4805? and 48055 shows 40%, last inspected in 1977 and 1978. Work may be done. If so close 48053 at 40% and review records and close 48055.

(6) Safety-related structural steel/supports - IP48063/64/65/66 were reported 100% in reports 78-19 and 81-08 but these do not document 100% - Perhaps 10 to 20%. These procedures were last inspected in 1981.

The revised manual charter eliminated 48064/66. Inspect to the new procedures 48063/65 if possible.

(7) Reactor Coolant Pressure Boundary Piping - IP49053, 49054 (work), and 49055/49056 (records) have not been inspected.

Since piping is 85-90% complete may have to settle for partial completion of 49053 and review records.

IP49054/56 were eliminated in MC 2512, Appendix A, therefore, complete per Appendix A. Approximately 10% to 20% inspection was done under the "C" or resident program for 49053C.

(8) Safety-Related Piping - IP49063/49065 show 10 and 0% complete. IP49063 was last inspected in 1977 while 10-20% inspection was shown against 49053C in 1982.

Construction work (piping) is well along but some piping work should be in progress. Regardless records of work can be inspected. Inspect as soon as possible.

(9) Reactor Vessel Installation - IP50053B was reported 100% complete in IR80-26; however, this report does not document inspections of installation. It appears that 50053B should be zero while 50053C (resident effort) shows about 30-40% completed.

Note: Contention 5 of ASLB hearing relates to improper QA/QC-Vessel installation.

IP50055 (records) was reported 100% but IR80-26 does not document inspection of UNE items. Review records as installation completed.

- (10) Reactor Vessel Internals IP50063/65B reported 100%.
- (11) Safety-Related Components. IP50073/50074 (work) and 50075/50076B show as 20, 20, 10 and 10 percent completed in 766 Data. The components inspected against 50074B were not documented in IR 80-05 and the same was true for 50075B but in addition only records for Unit 1 were documented. For practical purposes 50075B has 0% documented inspection. These procedures were last inspected in 1981, 1980, 1981, and 1980, respectively. Inspections of 50073C by the resident may raise the percent completed 10-20%.

Since 50074/76 were superseded in MC 2512, Appendix A, it may be best to inspect to the new/revised inspection requirements. It has been nearly four years since these procedures were inspected. Needless to say inspection should start immediately.

- (12) Safety-Related Pipe Support/Restraint The 766 Data shows
  10% completed for IP50090. This is correct since only 5% of
  about 70 items have been inspected. A little credit may
  be taken for inspection by the resident in IR78-13, 79-18,
  and 80-11. But less than 10%. This procedure was
  initiated in 1980 and was inspected once in 1981 and once
  in 1983.
- (13) Spent Fuel Racks No inspection documented in 766 Summary.
- (14) HVAC Systems This procedure was issued October 1983. No inspection is recorded in the 766 Summary.
  - Since problems have been identified with Bahnson HVAC inspection should been done. Inspection should start as soon as possible.
- (15) Containment Penetrations IP53053 and 530558 were last inspected in 1976 and 1978, respectively, and were reported

10% and 20% completed. IR76-05 documented inspection of work but did not identify penetrations inspected. Work has probably been largely completed. May have to settle for records review. Inspection should start and/or be completed as soon as possible.

(16) Containment Structural Steel Welding - IP55053 B was opened in 1976 and likewise IP55055B. The 766 Data shows 60% completed. They were last inspected in 1977 and 1978 respectively except the resident inspected this area in 1982 and closed 55053C at 100%.

It is likely that 55053/55/B should have been closed at 60% as it appears that welding of containment continued under 55153B "Containment work observation". since there is no record of the change only the cognizant inspector knows.

Under the circumstances 55053 and 55055B should be closed at 60%.

Note: It appears that inspections stopped under old procedures and started under the 551 thru 551888 series.

(17) Safety-Related Structures Welding - IP55063/64/65/66B show 12 100, 0, 10, and 10% completed. The data and IR78-19

showed 100% for 55063B but the report documents inspection of Unit 1 not Unit 2 and the same was true for 55065B.

It appears that work under these procedures were stopped and continued under 55154/558.

Note: A check against these procedures in the 766 Data Summary show inspection 100% in IR82-07; however, this report only inspects pipe support welding not structures welding not per IP. Section III. Under the circumstances close 55063/65/66. An additional inspection could be charged against these procedures or the procedures in ML 2512, Appendix A i.e., 55050, 55100, 55350, 57050, 57060, 57070, 57080, 57090 which would be over and above inspection required.

(18) Reactor Coolant Pressure Boundary Welding - IP55073, 55075, and 55076B show as 100% complete. IP55074B (2nd phase observation of work) showed 50%. The resident inspector performed many inspections of this welding. Therefore, close IP55074B at 50%.

The new procedures 55171, 55172, 55173, 55175, 55176, 55177, and 55178B show 80, 90, 90, 100, 100, 80,. and 0% completed. Future inspection should be charged against

these and close the old procedures. IP55176B (Heat Treat: stress relief, preheat etc.,) was reported on time and in IR82-09 as 100%; however, this report does not document inspection of heat treatment. IP5517B is for special applications and apparently none were encountered to date.

(19) Safety-Related Welding - IP55083 and 55085B show as 100% completed.

In addition other inspection was accomplished under new procedures 55181, 55182, 55183, 55188, 55186, 55187, and 55188B and 0% completed 80, 90, 100, 60, 80, and 50.

(20) Electrical Components - IP51053/54/55/568 show 0% inspection in the data run of October 1984.

MC 2512, Appendix A, should be used too for future inspections as 51054/56 were superseded. Inspection should start as soon as possible (ASAP).

(21) Elect Cable - IP51063/65/64/66B show 0% inspection. Use ML2512, APP A for future inspections. Inspection should start ASAP. IP51064/66 superseded.

- (22) Instrument Components 52u53/54/55/56B never inspected or documented in 766 Summary. IP52054/56 superseded; use MC 2512 APP A for future inspection start inspections.
- (23) Other Miscellaneous
- Containment Test IP63050 0% Inspect before OL.
- Fire Loop Installed IP64051/53 0% Inspect as Required.
- Inservice IP73051/52/53/55 0% Inspect as Required.
- Environmental IP82220 100% Annual Inspection.
- Part 21 IP92715P 92716B 0% Inspect as Required.

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31, 1984, require that	ctivities affecting quality shall be prescribed
- by document	district strephologopeconised
- I macractro	may procedurate and the second
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REPORT 85-07/05 766 DATA AS SUBMITTED

Module Reported 92706	ROT. PARA 16	Comment
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92702	?	No noncompliances inspected but violations were issued on
45065	4	un resolved Hem. No charge against this module is applicable
47054	5, 6, 7	In paragraph 5 of the report Time, could be charged; however this paragraph involved following
47056	5, 6,7	on The allegation and should be charged to et there 99014 or 92705.  Dito About
48056	?	These were a bout 10% complete but were closed out at 100%. Yet,
48064	?	report does not document any in operation of structural steel you pronts outside containment.
48066	?	DITTO
50053	12	
50063	12 .	Paragraph 3 states that i'l was
50055	12	Paragraph 3 states that i'l was not possible to observe work.  yet closed as 100%.

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Module PARA

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EX BIT 4

In Reply Refer To: Dockets: 50-445/85-07 50-446/85-05

FEB 0 3 1985

Texas Utilities Electric Company ATTN: W. G. Counsil Skyway Tower 400 North Olive Street Lock Box 81 Dallas, Texas 75201

#### Gentlemen:

This refers to the inspection conducted under the Resident Inspection Program by Messrs. J. E. Cummins and H. S. Phillips and others during the period April 1, 1985, through June 21, 1985, of activities authorized by NRC Construction Permits CPPR-125 and CPPR-126 of the Comanche Peak facility, Units 1 and 2, and to the discussion of our findings with Mr. J. T. Merritt, and other members of your staff at the conclusion of the inspection.

Areas examined during the inspection included plant status, action on previous NRC inspection findings, action on applicant identified design construction deficiencies (10 CFR Part 50.55(e) reports) and plant tours. Within these areas, the inspection consisted of selective examination of procedures and representative records, interviews with personnel, and observations by the inspectors. These findings are documented in the enclosed inspection report.

During this inspection, it was found that certain of your activities were in violation of NRC requirements. Consequently, you are required to respond to this violation, in writing, in accordance with the provision of Section 2.201 of the NRC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations. Your response should be based on the specifics contained in the Notice of Violation enclosed with this letter. Since B&R Procedure 35-1195-CCP-10 has been revised to provide documented inspection of truck mixer blades, there was no abnormal blade wear identified as a result of blade inspection, and there have been consistent concrete strength and uniformity tests, no reply to violation 2.c is required.

RSB A for HSPhillips/dc 1/=>/86 RSB DMHunnicutt

CPT G TFWesterman DRSP Too EHJohnson IEC1

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Texas Utilities Electric Company 2

Should you have any questions concerning this inspection, we will be pleased to discuss them with you.

> Sincerely, Original Signed By E. H. Johnson

E. H. Johnson, Acting Director Division of Reactor Safety and Projects

Enclosures:

1. Appendix A - Notice of Violation 2. Appendix B - NRC Inspection Report 50-445/85-07 50-446/85-05

cc w/enclosure: Texas Utilities Electric Company ATTN: J. W. Beck, Manager, Licensing

Skyway Tower 400 North Olive Street Lock Box 81 Dallas, Texas 75201

Juanita Ellis President - CASE 1426 South Polk Street Dallas, Texas 75224

Renea Hicks Assistant Attorney General Environmental Protection Division P. O. Box 12548 Austin, Texas 76711

Texas Radiation Control Program Director

bcc to DMB (IEO1)

bcc distrib. by RIV: \*RPB \*RRI-CPS \*RRI-CONST \*T. F. Westerman, CPTG V. Noonan, NRR S. Treby, ELD \*RIV File \*D. Weiss, LFMB (AR-2015)

\*MIS System \*RSTS Operator \*R&SPB DRSP R. Martin, RA \*RSB J. Taylor, IE R. Heishman, IE

### APPENDIX A

#### NOTICE OF VIOLATION

Texas Utilities Electric Company Comanche Peak Steam Electric Station Units 1 and 2 Docket: 50-445/85-07

50-446/85-05

Permit: CPPR-126

CPPR-127

During an NRC inspection conducted on April 1 through June 21, 1985, violations of NRC requirements were identified. In accordance with the "General Statement of Policy and Procedures for NRC Enforcement Actions," 10 CFR Part 2, Appendix C (1985), the violations are listed below:

1. Failure to Promptly Correct an Identified Problem with RTE - Delta Potential Transformer Tiltout Subassemblies

10 CFR 50, Appendix B, Criterion XVI, as implemented by Texas Utilities Generating Company (TUGCO) Quality Assurance Plan (QAP), Section 16.0, Revision 0, requires that measures shall be established to assure that conditions adverse to quality, such as failures, malfunctions, deficiencies deviations, defective material and equipment, and nonconformances are promptly identified and corrected.

Contrary to the above, a potential problem with RTE - Delta potential transformer tiltout subassemblies, which are used in the emergency diesel generator control panels, was itentified to the applicant via a letter, dated June 15, 1983, from Transamerica Delaval Inc. This letter also provided instructions for correcting the potential problem. However, the applicant did not take the corrective action. The NRC initially reported this item as unresolved in NRC Inspection Report 50-445/84-40.

This is a Severity Level IV violation. (Supplement II.E) (445/8507-01 446/8505-01).

2. Failure To Follow Procedures

10 CFR Part 50, Appendix B, Criterion V, as implemented by the TUGCO QAP, Section 5.0, Revision 2 requires that activities affecting quality shall be prescribed by documented instructions, procedures, or drawings, of a type appropriate to the circumstances and shall be accomplished in accordance with these instructions, procedures, or drawings.

a. Drawing 2323-51-0550, Revision 4, Section 6-6 specified the use of Class "E" concrete for the Unit 1 reactor coolant pump and steam generator supports.

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Contrary to the above, commercial nonshrink grout was used to grout the Unit 1 reactor coolant pump and steam generator supports in lieu of Class "E" concrete. (445/8507-02)

This is a Severity Level V violation (Supplement II.E).

Noting

b. Brown and Root Procedure QI-QAP-7.2-8, "Receiving of Westinghouse Safety Related Equipment," Section 3.1.d.1, requires a QC inspector to verify that the Westinghouse Quality Release (QR) document checklist items be filled out completely and accurately.

Contrary to the above, the voltage recorded on Westinghouse QR 41424 checklist, attachment 1, step 4.1, was outside the specified tolerance, but the QC receipt inspector accepted QR as satisfactory. (445/8507-03)

This is a Severity Level IV violation.

c. Brown & Root Procedure 35-1195-CCP-10, Revision 5, dated December 4, 1978, requires that central and truck mixer blades be checked quarterly to assure that mixer blade wear does not exceed a loss of 10% of original blade height.

Contrary to the above, on May 31, 1985, the NRC inspector determined that there was no objective evidence (records) that the mixing blades had been inspected quarterly since the trucks were placed in service in 1977. (445/8507-04; 446/8505-02)

This is a Severity Level V violation (Supplement II.E)

d. Brown & Root Procedure CP-QAP-15.1, "Field Control of Nonconforming Item, "states that nonconforming conditions shall be documented in a Deficiency and Disposition Report (DDR). Procedure CP-QCP-1.3, "Tool Equipment Calibration and Control," dated July 14, 1975, states that out-of-calibration equipment shall be identified on a DDR.

Contrary to the above, on May 31, 1985, the NRC inspector reviewed the calibration file for scale (MTE 779) used for weighing cement and found that a 24-48 pound deviation from the required accuracy was encountered with the water and cement scales during a 1975 calibration of the backup plant scales, however, no DDR was issued to identify this condition and require disposition of the scale and concrete (if any) produced. (445/8507-06; 446/8505-04).

This is a Severity Level IV violation (Supplement II.E).

Pursuant to the provisions of 10 CFR 2.201, Texas Utilities Electric Company is hereby required to submit to this office within 30 days of the date of the letter transmitting this Notice, a written statement or explanation in reply, including for each violation: (1) the reason for the violations if admitted, (2) the corrective steps which have been taken and the results achieved, (3) the corrective steps which will be taken to avoid further violations, and (4) the date when full compliance will be achieved. Where good cause is shown, consideration will be given to extending the response time.

Dated at Arlington, Texas, this 3rd day of February, 1986

### APPENDIX B

U. S. NUCLEAR REGULATORY COMMISSION REGION IV

NRC Inspection Report: 50-445/85-07

Permit: CPPR-126

50-446/85-05

CPPR-127

Docket: 50-445; 50-446

Applicant: Texas Utilities Electric Company (TUEC)

Skyway Tower

400 North Olive Street

Lock Box 81

Dallas, Texas 75201

Facility Name: Comanche Peak Steam Electric Station (CPSES)

Units 1 and 2

Inspection At: Glen Rose, Texas

Inspection Conducted: April 1, 1985, through June 21, 1985

Inspectors:

Senior Resident

Reactor Inspector Construction (pars. 1, 2, 3, 8, 9, 10, 11, 15, 16,

17, 18, and 19)

10/1/8 Date

19/2/85

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E. Cummins, Senior Resident Reactor Inspector Construction (April 1 - May 10, 1985)

(pars. 1, 3, and 19)

D. E. Norman, Reactor Inspector (pars. 1, 12, 13, 14, and (19)

M. Hunnicutt, Section Chief

Reactor Projects Branch 2 (pars. 1, 4, 5, 6, 7, and /19)

Approved:

D. M. Hunnicutt, Section Chief,

1/28/86 Date

Reactor Project Section B

Inspection Summary

Inspection Conducted April 1, 1985, through June 21, 1985(Report 50-445/85-07)

Areas Inspected: Routine, announced and unannounced inspections of Unit 1 which included plant tours and review of plant status, action on previous NRC inspection findings (violations/unresolved items), review of documentation for site dams, and review of 10 CFR Part 21 and 10 CFR Part 50.35% Construction deficiency status, The inspection involved 77 inspector-hours onsite by four NRC inspectors.

Results: Within the areas inspected, five violations were identified: failure to promptly correct an identified problem with RTE - Delta Potential Transformer Tiltout Subassemblies, paragraph 3.a.; commercial non-shrink grout was used to grout the Unit 1 reactor coolant pump and steam generator supports in lieu of Class "E" concrete, paragraph 3.b.; hydrogen recombiners out-of-specification voltage recorded on quality release document but QC receipt inspector accepted, paragraph 3.c; failure to provide objective evidence to show that central and truck mixer blades were inspected, paragraph 8; and failure to issue a deficiency report on cement scales that were out-of-calibration, paragraph 9.c.

Inspection Summary

Inspection Conducted April 1, 1985, through June 21, 1985 (Report 446/85-05)

Areas Inspected: Routine, announced and unannounced inspections of Unit 2 which included plant tours and review of plant status, action on previous NRC inspection findings (violations/unresolved items), review of documentation for site dams, review of documentation for voids behind the stainless steel cavity liner of reactor building, observation of NDE on liner plates, inspection of concrete batch plant, review of calibration laboratory records for batch plant, review of concrete laboratory \*esting, inspection of level C and D storage, review of reactor pressure vessel (RPV) and piping records/completed work, and review of 10 CFR Part 21 and 10 CFR Part 50.55(e) construction deficiency status, and review of violation and unresolved items status. The inspection of the involved 335 inspector-hours onsite by four NRC inspectors.

Results: Within the sixteen areas inspected three violations were identified: failure to correct RTE-Delta transformer problem, paragraph 3.a; failure to provide objective evidence to show that concrete central and truck mixer blades were inspected, paragraph 8; and failure to issue a deficiency report on cement scales that were out-of-calibration, paragraph 9c.

#### DETAILS

#### 1. Persons Contacted

### Applicant Personnel

- M. McBay, Unit 2 Reactor Building Manager
- B. Ward, General Superintendent, Civil

- D. Chandler, QA/QC Civil Inspector W. Cromeans, QA/QC, TUGCO Laboratory/Civil Supervisor
- \*#J. Merritt, Assistant Project General Manager
- \*#P. Halstead, Construction Site QA Manager
  - #C. Welch, QA Supervisor TUGCO (Construction)
  - J. Walters, TUGCO Mechanical Engineer K. Norman, TUGCO Mechanical Engineer

  - J. Hite, B&R Materials Engineer
  - G. Purdy, B&R CPSES QA Manager

\*Denotes those present at May 10, 1985 exit interview. #Denotes those present at June 10, 1985 exit interview.

The NRC inspectors also interviewed other applicant employees during this inspection period.

#### 2. Plant Status Unit 1

At the time of this inspection, construction of Unit 1 was 99 percent complete. The fuel loading date for Unit 1 is pending the results of ongoing NRC reviews.

# Unit 2

At the time of this inspection, construction of Unit 2 was approximately 74 percent complete. Fuel loading is scheduled for approximately 18 months after Unit 1 fuel loading.

#### Applicant Action on Previous NRC Inspection Findings 3.

(Closed) Unresolved Item 445/8440-02: Potential Problem with Potential Transformer Tiltout Subassemblies.

By letter dated June 15, 1983, Transamerica Delaval notified the applicant of an RTE - Delta 10 CFR Part 21 report to the NRC reporting a potential problem with the primary disconnect clips of the potential transformer tiltout assembly used in the emergency diesel generator control panels at CPSES. The Transamerica Delaval letter also provided instructions for correcting the problem. However, the NRC inspector could not determine if the problem had been corrected at CPSES and made this an unresolved item. The applicant determined that the problem had not been corrected and subsequently performed the recommended corrective action. The Unit 1 corrective action work activities were documented on startup work permits Z-2912 (train A) and Z-2914 (train B). The Unit 2 work activities are being tracked as master data base (MDB) item 3003-31. The failure to promptly correct this identified problem is an apparent violation (445/8507-01; 446/8505-01).

b. (Closed) Unresolved Item 445/8416-03: Commercial Grout Used in Lieu of Class "E" Concrete

The applicant determined that the use of nonshrink commercial grout in lieu of the Class "E" concrete specified on drawing 2323-S1-0550 was acceptable. Design Change Authorization 21179 was issued to drawing 2323-S1-0550 accepting the use of the commercial non-shrink grout. However, the failure to grout with Class "E" concrete as specified on the drawing at the time the work was accomplished is an apparent violation (445/8507-02).

C. (Closed) Unresolved Item 445/8416-D4: Hydrogen Recombiners -Dut-of-Specification Voltage Recorded on Westinghouse Quality Release Document

Quality Release N-41424 was revised by Westinghouse changing the specified voltage from 10+-2V to 12+-2V which put the questionable voltage within specification limits. However, the failure of receipt inspection to verify that the QRN-41424 was filled out accurately as required by Procedure QI-QAP7.2-8 is an apparent violation (445/8507-03).

d. (Open) Unresolved Item 445/8432-06; 446/8411-06; Lobbin Report Described Site Surveillance Program Weaknesses

During this reporting period the NRC inspector reviewed the status of this open item several times and interviewed TUEC management and site surveillance personnel. The Lobbin report stated that the scope and objectives of the site surveillance program were unclear, lacking both purpose and direction.

There is no specific regulatory requirement to have a surveillance program; however, TUEC committed to have a surveillance program and has established procedures to implement such a program as a part of the 10 CFR Part 50. Appendix B, QA program. This extra effort is a strength; however, the NRC inspector also observed, as did the Lobbin Report, that the surveillance program lacks both purpose and direction to be effective and complimentary to the audit and

inspection programs. Since the TUEC audit group is not-located on site, the TUEC surveillance program on site takes on added significance.

This item was discussed with the TUEC site QC manager who described a reorganized site surveillance function and changes that have occurred. New procedures which describe this organization's duties and responsibilities are forthcoming.

TUEC has elected to defer responding to the violations pertaining to the audit function in NRC Inspection Report 445/84-32; 446/84-11, but rather to have the Comanche Peak Response Team (CPRT) respond to this report and other QA matters. The surveillance issue is closely tied to the audit deficiencies in NRC Inspection Report No. 445/84-32; 446/84-11. This item will remain open pending the review and implementation of the CPRT action plan. A special point of interest will be how audits and surveillance work together to evaluate the control of all safety-related activities on site to assure quality, especially the overview of quality control effectiveness.

# Document Inspection of Site Dams

The NRC inspector reviewed documents describing the inspection activities performed on the Squaw Creek Dam (SCD) and the safe shutdown impoundment (SSI) for impounding cooling water for the two units at CPSES. The purpose of the SCD is to impound a cooling lake for CPSES. A secondary reservoir (SSI) is formed by a channel connecting the SCD impoundment to the SSI.

Three documented inspections have been performed since 1980. The inspections were:

- a. Relevant data for SCD is contained in Phase I Inspection, National Dam Safety Program, Squaw Creek Dam, Somervell County, Texas, Brazos River Basin, inspection by Texas Department of Water Resources. Date of Inspection: June 10, 1980.
- b. Inspection on August 25, 1982, by registered professional engineers from Mason-Johnston & Associates, Inc., and Freese & Nichols, Inc.
- c. Inspection on September 19, 1984, by a registered professional engineer from Mason-Johnston & Associates, Inc.

The inspection activities consisted of visual inspections by inspection teams that included accompanying Texas Utilities Service, Inc. (TUSI), and Texas Utilities Generating Company (TUGCO) representatives. Photographs were taken as a part of the documentation. The data for the

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piezometer observations and the data for the surface reference monuments were reviewed by applicant personnel and Mason-Johnston engineers. No items of significance were observed or reported by these inspection teams. Slight erosion areas were observed and reported. A cracked area on the service spillway upstream right bridge seat was observed by the inspection teams and continued monitoring of this area was recommended by Mason-Johnston and Associates. No signs of cracks, settlements, or horizontal movement at any location within the SCD or the SSI were reported.

The NRC inspector reviewed the applicant's records and the Mason-Johnston inspection reports. These documents indicated that the SCD and SSI were structurally stable and that the applicant was performing inspection activities to maintain the structural integrity of these dams.

The state of Texas requires periodic inspections of these dams (principally the SCD) due to inhabited dwellings downstream. The applicant has met these inspection requirements.

No violations or deviations were identified. DUMNY FOR ALLEG

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Voids Behind the Stainless Steel Cavity Liner in Unit 2 Reactor Building

In review of previous related TRT concerns, the NRC inspector reviewed applicant records, including NCR C-82-01202; NCR C-1784, Rev. 1; NCR C-1784, Rev. 2; NCR C-1766, Rev. 1; NCR C 1791, Rev. 1; NCR C-1824, Rev. 1; NCR C-1824, Rev. 2; Significant Deficiency Analysis Report (SDAR) - 26, dated December 12, 1979; DCA-20856; and Gibbs and Hill Specification 2323-SS-18. The review of records and documentation and discussions with various applicant personnel indicated the following:

Structural concrete was placed in Unit 2 reactor building at elevation 819 feet 6-3/4 inches to 846 feet 6 inches on June 21, 1979. This concrete was placed adjacent to the stainless steel liner walls. The concrete forms for this pour were not removed until October 1979 due to subsequent concrete placements for the walls to elevation 860 feet 0 inches. When the forms were removed, honeycombs and voids were observed by applicant personnel. The applicant's review of the extent of unconsolidated concrete resulted in the issuance of SDAR-26 on December 12, 1979. Investigations were begun and Meunow and Associates (M&A) of Charlotte, North Carolina, were contracted to perform nondestructive testing on in-place concrete. M&A performed these tests on a two foot grid pattern on the compartment and liner sides of all four steam generator (SG) compartment walls. The selected test locations did not include the locations where the voids were later found to be located.

In August 1982, preparations were made to pour the concrete annulus around the reactor vessel. When the expanded metal formwork was removed from the reactor side of the compartment walls, voids were observed and NCR C-82-01202 was prepared. DCA 20856 was prepared as a procedure to repair the void area. DCA 20856 indicated that the voids were not extensive (a surface area of about 28 square feet by 8 inches maximum depth) and that the repair procedure assured that the total extent of voids had been identified. One half (0.5) of a cubic yard of concrete was used to complete the repairs as indicated on grout pour card 261.

The applicant's review and evaluation of the gird pattern and a comparison of SG compartments 2 and 3 to 1 and 4 indicated that voids did not exist in SG compartments 2 and 3. The review of test girds extended down to elevation 834 feet, which is the floor elevation of the liner. The liner walls of SG compartments 1 and 4 were not tested at elevation 834 feet, but at elevation 836 feet which is above the area of the identified voids. No testing was done on the liner side of the area of the voids below elevation 836 feet. The program also included removal of 2 inch x 2 inch plugs from the stainless steel liner at locations where test indications raised questions concerning the concrete. The inspections of the concrete by applicant personnel after the plugs were removed confirmed that there were no additional unconsolidated concrete areas (voids).

In accordance with OCA 20856, the applicant removed stainless steel liner plates from three areas (one area about 1 foot by 1 1/2 feet and two areas about 3 feet by 1 foot, excavated or chipped to sound concrete, and cleaned the concrete surface area. One and one-quarter inch (1 1/4) diameter probe holes and grout access holes were drilled in the liner plates to determine the extent of and to assure full definition of the void area. Air access holes were drilled in the stainless steel liner plates to assure that grouting would be accomplished in accordance with the procedure.

The procedure (DCA-20856) specifed that the grout was to be cured for 28 days or until the grout reached a compressive strength of 4000 psi. Repairs to the liner plates were specified in DCA-20856 and G&H Procedure 2323-SS-18.

DCA-20856 required that under no circumstances was cutting of the liner across weld seams, across embedded weld plates, or into leak chase seal welds or drilling through the liner at leak chase channels, embeds, or weld seams permitted. Documentation review indicated that DCA-20856 was adhered to and that no cutting or drilling occurred in prohibited locations.

No violations or deviations were identified.

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The NRC inspector obser ed portions of non-Q liquid penetrant examinations (PT) being performed on liner plate welds following re-installation of the liner plates in the areas of the fuel transfer canal removed for inspection and repair of the concrete. The inspector performed the PT on the welds as required by the repair package and the procedure (QI-QP-11.18-1, "Liquid Penetrant Examination"). Scattered weld porosity was identified by the inspection. The porosity was ground out and a repeat PT was performed. The final inspection is scheduled to be performed by QC inspection personnel. The liner plate areas to be inspected by PT were identified in DCA 20856.

No violations or deviations were identified.

#### 47054 7. Cadweld Splice Observations and Records

### Calibration of Tensile Tester

The NRC inspector observed the calibration of the Tinus-Olson Universal Testing Machine (Model Number 600-12 Identification Number M&TE-784) on April 2 and May 7, 1985. The machine was calibrated just prior to performing tensile testing of cadweld splices and subsequent to completion of tensile testing each day that tensile testing was performed. The machine calibration date for April 2. 1985, prior to start of tensile testing was observed by the NRC inspector and recorded as follows:

Nominal load (lbs)	Calibration Reading (1bs)	Error (1bs)	Error %	Remarks	
0	0	0	0	0 machine 4/2/85	on
100,000 200,000 300,00 350,000 400,000 500,000	99,750 199,600 299,450 350,300 401,200 501,350 602,450	+250 +400 +550 -300 -1200 -1350 -2450	+0.25 +0.2 +0.18 -0.08 -0.03 -0.27 -0.40		

The NRC inspector reviewed calibration data for March 4, March 8, April 2, April 3, April 30, and May 7, 1985. All calibration data met within the +/- 1% accuracy requirement specified by Calibration Procedure 35-1195-IEI-37, Revision 3, dated March 11, 1982. The reference standards were identified as follows:

RS-75 BLH Electronics January 27, 1987
RS-75.3 BLH Electronics January 27, 1987

# b. Observation of Cadweld Splice Tensile Testing

### (1) Qualification Tensile Testing

On April 2, 1985, the NRC inspector observed the following tensile testing of cadweld splices for cadwelder qualification: EBD Q8, GBH Q1, GBH Q2, GBV Q1, BFD Q4, BFD Q3, BFH Q4, GAH Q1, GAV Q1, and GBV Q2.

Each of the above qualification cadweld splices was tensile tested to 400,000 pounds (100,000 psi) and met the requirements stated in the procedure.

# (2) Production Tensile Testing

The NRC inspector observed the tensile tester calibrations and the following production cadweld splices tensile testing on May 7, 1985: FXD 3P, FYD 4P, FYD 8P, FRD 87P, and FUD 6P.

Each of the above production cadweld splices was tested to 400,000 pounds (100,000 psi) and met the requirements stated in the procedure.

# (3) Installation of Production Cadweld Splices

The NRC inspector observed installation of rebar and cadweld splices at frequent intervals (five or more observations per week during the weeks of April 8 and 15; May 6, 13, 20, and 27; and June 3, 1985). The rebar installation for the Unit 2 closure was performed in the area identified as elevation 805 feet to elevation 875 feet and azimuth 300 degrees to 335 degrees. The installation activities observed included rebar spacing, location of cadwelds, observation of selection and removal for testing of cadweld splices for testing, and determination of location of rebars and cadwelds for the as-built drawings.

# (4) Documentation Reviewed

The NRC inspector reviewed the following documentation for the rebar placement and cadwelding for the Unit 2 containment (reactor building) closure area:

Drawings	DCAs	MCRs ÷
2323-S-0785, Rev.7 2323-S-0786, Rev.9 2323-S1-500, Rev.5 2323-S1-506, Rev.5	22616, Rev. 1 22728 22737 22836	C85-200294 C85-200339, Rev.1 C85-200355, Rev.1
2323-S2-505, Rev.5 2323-S2-508, Rev.2 2323-S2-506, Rev.3	22878 (Sheets 1-7) 22772	

No violations or deviations were identified.

# 47054 8. Concrete Batch Plant Inspection, Unit 1 and 2

The NRC inspector inspected the concrete production facilities for the following specific characteristics for the following areas: (1) material storage and handling of cement, aggregate, water and admixture, (2) batching equipment scales, weighing systems, admixture dispenser, and recorders, (3) central mixer (not applicable because it had been dismantled), (4) ticketing system, and (5) delivery system.

The current batching is a manual operation since almost all concrete has been placed. The central mixer was dismantled and removed from site two or three years ago when concrete placement was virtually completed. Presently, the backup batch plant (which was a backup system for the central mixer) is in operation to complete the remaining concrete placements. This batch plant is in good condition and complied with the subject checklist except for one area.

The NRC inspector inspected the inside of one of three trucks used for mixing concrete (that is, the batch plant dispenses the correct weight of materials as required by the specific design mix numbers and the truck then mixes the batch to be placed.) The blades inside the truck are subject to wear and should be checked at a reasonable frequency. The Brown & Root (B&R) representative responsible for checking the blades in accordance with B&R Procedure 35-1195-CCP-10, Revision 5, dated December 4, 1978, was asked for evidence that the blades had been checked for wear on a quarterly basis as required by procedures and it was found that there was no record of such checks dating back to 1977 when they were initially checked.

In the FSAR Volume V, Section 3.8.1.2.3, the applicant commits to ACI 304-73. In ACI 304, the maintenance of mixer blades is required.

Procedure CCP-10, paragraph 3.10 "Truck Mixing," is silent on blade wear but Section 3.11 infers that the blades should be checked for both central and truck mixing. The inspection of both central and truck mixing blades

was not documented, although the B&R representative stated that the mixing blades were periodically inspected and laboratory testing would have probably indicated if there was a problem with the mixing blades. Strength and uniformity tests have consistently been within the acceptable range indicating that concrete production was acceptable even though mixing blade inspection was not documented.

Otherwise, the condition of the inside of the truck was satisfactory as the drum and charging/discharging were clean. The water gage and drum counter were in good condition.

This failure to follow procedures is a violation of 10 CFR 50, Appendix B, Criterion V. Subsequent to the identification of this violation, the blades were checked for wear and blade wear was presently within allowable limits (445/8507-04; 446/8505-02).

No other violations or deviations were identified.

# 47054 9.

# Calibration Laboratory for Batch Plant Unit 1 and 2

The NRC inspector obtained batch plant scale numbers from tags which indicated that the scales had been calibrated and were within the calibration frequency. Cement (MTE 779), Water (MTE 766), admixture scale (MTE 764), and aggregate (MTE 780) were reviewed. The scales had been periodically calibrated since the batch plant was activated. The records were adequate except as follows:

- a. Scales MTE 766 records do not differentiate between the required accuracy of the scale and the digital readout.
- b. Scales MTE 779 and 780 records show various accuracy ranges for the same scale; i.e., MTE 779 (SN749687) records the following: report dated January 1976 gives 1%; report dated July 1976 gives 1% while the report dated October 1976 gives +/- 0.2%.

The calibration appeared to be proper, however, the above items are unresolved pending further review of the applicant's actions regarding the correction of these records (445/8507-05; 446/8505-03).

C. Records for scales MTE 779 records contained B&R memo IM-1108 dated July 16, 1975, which described a nonconforming condition. This condition affected the water and cement scales causing a 24-48 pound deviation (7,000 pound scale) during the calibration test. The memo stated that the condition was corrected and the scales were then calibrated; however, no deficiency report was written as required by B&R Procedure CP-QCP-1.3, "Tool and Equipment Calibration and Tool Control" dated July 14, 1975, and CP-QAP-15.1, "Field Control of Nonconforming Items," dated July 14, 1975. As a result there is no evidence that

corrective action included an evaluation to determine if:concrete production was adversely affected.

This failure to assure that a nonconforming condition was evaluated is a violation of Criterion XV of 10 CFR Part 50, Appendix B, (445/8507-06; 446/8505-04).

# 4705 t 10. Concrete Laboratory Testing Units 1, and 2

TUGCO Procedure QI-QP-11.1-1, Revision 6, was compared with ASME Section III, Division 2, Subsections 5222, 5223 and 5224 to assure that each ASTM testing requirement was incorporated into the procedure.

The NRC inspector inspected the testing laboratory equipment and found the test area and equipment were in good condition and each piece of equipment was tagged with a calibration sticker which showed it to be within the required calibration frequency. Test personnel were knowledgeable of test requirements and equipment.

The NRC inspector witnessed field tests performed by laboratory personnel as follows:

Date	Truck	No. Mix No. Temp(F)	Ticket No.	Air	Content(%)	Slump	(in.)
6/3/85	RT-41	925	64013		8.2-10.3 8.7-9.1	NA NA	70 max 57
6/3/85	RT-35	128	64014		5.0-7.0 6.6	5 max 6.25*	70 max 57

\*Initial slump was high; however, after additional truck rotations the slump was found acceptable.

The following laboratory equipment was checked and found to be within calibration: Forney Compression Tester, MTE 3031; Temperature Recorder MTE 3013 and 3014; Unit Volume Scale, MTE 1053; Pressure Meters MTE 3000B, 3002 and 3004; Sieves MTE 1286, 1239, 1272, 1274, 1136A, 1156, 1094, 1093, 1095, 1178, 1179, 1300 and 1180; Aggregate scales, MET 1058 and 1067; and 2" grout mold MTE 1111.

The following test records for placement number 201-5805-034 were reviewed: (1) concrete placement inspection, (2) concrete placement summary and, (3) unit weight of fresh concrete.

No violations or deviations were identified.

11. Inspection of Level C and D Storage Unit 1 and 2

47054 The NRC inspector inspected all laydown areas where piping, electrical 51053 Electrical conduit, cable, and structural reinforcing steel warming. of 3 E/re 7 conduit, cable, and structural reinforcing steel were stored. These materials were neatly stored outside on cribbing in well drained areas which allowed air circulation and avoided trapping water. This met the 44053 P. P.M Level "D" storage requirements of ANSI N45.2.2.

48063 Str. Suppls The electrical warehouse contained miscellaneous electrical hardware. This building was required to be fire resistant, weathertight, and well ventilated in order to meet Level "C" storage requirements. This warehouse was well kept and met all requirements except for a lock storage area located upstairs at the rear of this building (electrical termination tool room). Two minor problems were identified and the warehouse personnel initiated action to correct them.

> The first problem noted was that a box of nuclear grade cement was marked "shelf life out of date" but it had no hold tag. The box was subsequently tagged inaccordance with TUGCo nonconformance Procedure CP-QAP-16.1, Revision 24 (Nonconformance Report (NCR) E85-200453) after being identified by the NRC. During discussions with the warehouseman, the NRC determined that engineering told the warehouseman to mark the material and lock it up. but did not tell him to apply an NCR or hold tag. Also, the NRC inspector noted a very small leak in the roof above the electrical termination tool room. This leak was in an area that did not expose hardware to moisture. The roof is currently being repaired.

The millwright warehouse storage area was inspected; however, only a small number of items or materials were stored in this area. The overall storage conditions in this area met or exceeded Level "C" storage requirements.

No violations or deviations were identified.

# Reactor Pressure Vessel and Internals Installation - Unit 2

This inspection was performed by an NRC inspector to verify final placement of the reactor pressure vessel (RPV) and internals by examining the completed installation and inspection records.

# Requirements for Placement of RPV

Requirements for placement of the RPV to ensure proper fit-up of all other major NSSS equipment are in Westinghouse Nuclear Services Division (WNSD) "Procedure for Setting of Major NSSS Components", Revision 2, dated February 13, 1979, and "General Reactor Vessel Setting Procedure" Revision 2, dated August 30, 1974. The NRC

inspector reviewed the following drawings, which were referenced in the RPV operation traveler, to verify implementation of WNSD recommendations:

- WNSD drawing 1210E59 "Standard Loop Plant RV Support Hardware Details and Assembly"
- WNSD drawing 1457F27 "Comanche Peak SES RCS Equipment Supports -Reactor Vessel Supports"
- o CE drawing 10773-171-004 "General Arrangement Elevation"
- o CE drawing 10773-171-005 "General Arrangement Plan"

Neither site prepared installation drawings nor specifications (which implemented the WNSD recommended procedures) were available and the drawings examined did not show certain specific installation criterion such as centering tolerances, levelness tolerances and clearance between support brackets and support shoes.

The inspector considers this matter unresolved. (446/8505-05)

### b. Document Review

The NRC inspector reviewed B&R Construction and Operation Traveler No. ME79-248-5500 which described the field instructions for installation of the Unit 2 RPV. Requirements recommended by WNSD procedures were implemented in the traveler. Worksheets attached to the traveler showed the RPV to be centered and leveled within the established tolerances. Traveler operation 19 mauired verification of a 0.020 to 0.005 inch clearance between the support bracket and support shoe, after applying the shim plates. Change 5 subsequently changed the clearance to a 0.015 to .025 inch clearance. The installation data reflected in attachment 3B of the traveler indicated an as-built clearance of 0.012 to 0.026 inch which exceeds both the original and revised tolerances. This condition was accepted on the traveler based on Westinghouse concurrence, and there was no documented engineering evaluation onsite justifying the final tolerances. This matter is considered unresolved pending documentation validating the final installation tolerances. (446/8505-06)

The NRC inspector reviewed the following receiving records for the RPV hardware and found them to be in order:

- o Report No. 14322 for 54 each closure stude, closure nuts, and closure washers
- O Report No. 09507 for vessel S/N 11713, Closure Head 11713 and 26 O-Rings

O Deviation notices and corrective action statements ÷

The NRC inspector reviewed the following completed travelers for internals installation and found them to be satisfactory:

- o ME-84-4641-5500, "Assemble Upper Internals"
- o ME-84-4503-4000, "Install and Adjust Roto Locks"
- o ME-81-2145-5500, "Retorque UI Column Extension"
- o RI-80-385-5500, "Transport and Install Lower Internals"
- o ME-84-4617-5500, "Repair Lower Internals"
- o ME-84-4640-5500. "Assemble Lower Internals"

# c. Visual Inspection

At this time, visual inspection of the internals by the NRC inspector was not possible, and inspection was limited on the vessel placement to a walk-around beneath the vessel to inspect the azimuth markings and for construction debris between the vessel and cavity. No problems were identified in this area.

# d. Records of QA Audits or Surveillances

The NRC inspector requested TUGCO QA audits or surveillances performed by TUGCO of the Unit 2 RPV installation. TUGCO did not make available any documentation of an audit or surveillance which evaluated specified placement criteria, placement procedures, hardware placement, or as-built records. This item is unresolved pending a more comprehensive review of these activities (446/8505-07).

No deviations were identified; however, two unresolved items were identified and are described in the above paragraphs. (11.a and d)

# 13. Reactor Vessel Misorientation

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On February 20, 1979, the applicant reported to the NRC Resident Inspector that a design error had resulted in the reactor support structures being placed in the wrong position on the reactor support pedestal such that the reactor would be out of position by 45 degrees. Initially, Unit 2 was to be a mirror image of Unit 1, however, a design change was initiated to permit identical components for both units. The design change was implemented for the reactor vessel, but not for the pedestal support locations. The problem was not considered by the applicant to be

reportable under provisions of 10 CFR Part 50.55(e) since the perror could not have gone undetected.

The deficiency was reported to the NRC Office of Inspection and Enforcement on February 22, 1979 and during a March 27, 1979 meeting in Bethesda, Maryland, the applicant presented the proposed redesign and rework procedures for relocating the pedestal supports. No unresolved safety concerns with the repair were identified at the meeting.

During this inspection the NRC inspector reviewed various documentation relative to the misorientation problem, including design changes and the construction traveler which implemented the repair.

The following documents were reviewed:

- o NRC Inspection Reports 50-446/79-03; 50-446/79-07; 50-446/79-13
- TUSI Conference Memo, dated March 1, 1979, H. C. Schmidt to S. Burwell (NRC Licensing PM)
- o TUGCO letter TXX-2980, dated April 30, 1979, to W. C. Seidle
- o NRC letter to TUGCO dated May 29, 1979
- o DCA 3872, Revision 1, dated February 28, 1979, Subject: Rework of Structure for Placement of the RPV Support Shoes
- DCA 4122, dated March 22, 1979, Subject: Replacement of Rebar for RPV Supports
- Construction Traveler CE79-018-5505, dated March 14, 1979, Subject: Rework of Reactor No. 2 Cavity - New RPV Support Locations
- o Grout Replacement Cards No. 007, 008, 009, 010, 014, and 015, various dates, Subject: Replacement of Grout around Rebar for Repair of RPV Support Shoes
- Various Inspection Reports for Grout Properties and Application for RPV Support Shoes

No violations or deviations were identified.

# Reactor Coolant Pressure Boundary (RCPB) Systems

The inspection was performed to verify: the applicants system for preparing, reviewing, and maintaining records for the RCPB piping and components; that selected records reflected compliance with NRC requirements and SAR commitments for manufacture, test and installation of

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items; and as-built hardware was adequately marked and traceable to records. The following items were randomly selected and inspected:

- a. Pressurizer Safety Valve This item was inspected to the commitment stated in FSAR, Table 5.2-1 which includes ASME Section III, 1971 Edition through Winter 1972 Addenda. Valve S/N N56964-00-007, which is installed in the B position, was inspected. The following records were reviewed:
  - o QA Receiving Inspection Report No. 21211
  - o Code Data Report Form NV-1
  - o Valve Body Certified Material Test Reports (CMTRs)

The valve was in place, however, installation had not been completed; therefore, the hardware installation inspection consisted of verifying that the item was traceable to the records.

- b. CVCS Spool Piece 3Q1 Requirements for this item are stated in ASME, Section III, 1974 Edition through Summer 1974 Addenda, which is the commitment from the FSAR, Table 5.2-1. The item was field fabricated from bulk piping and purchased elbows and installed in the CVCS with field welds number 1 and 6 (ref. BRP-CS-2-RB-076). The following records were reviewed:
  - o B&R Code Data Report
  - o Field Weld Data Card
  - o NDE Reports
  - O QA Receiving Reports for piping and elbows
  - o CMTRs

The installed spool piece was inspected for weld quality and to verify that marking and traceability requirements had been met. The item had been marked with the spool piece number (3Q1) and the B&R drawing number which provided traceability to the material certifications.

c. Loop 3 RC Cold Leg - Requirements for this item are stated in ASME, Section III, 1974 Edition through Summer 1974 Addenda, which is the commitment from the FSAR, Table 5.2-1. This piping subassembly consists of a 27.5 inch cast pipe with a 22 degree elbow on the reactor end, a 10 inch 45 degree nozzle, a 3 inch nozzle, and three 2

1/2 inch thermowell installation bosses. The following Fecords were reviewed for the subassembly:

- o QA Receiving Inspection Report No. 12389
- o Westinghouse Quality Release (QRN 47523)
- o Code Data Report Form NPP-1
- o 27 1/2 inch line CMTR
- o 3 inch nozzle CMTR
- o Field Weld Data Cards
- o NDE Reports
- (1) Sandusky Foundry and Machine Company test report for the cold leg pipe certifies that material meets requirements of ASME Section II, 1974 editions through winter 1975. Southwest Fabrication and Welding Company code data report NPP-1 Form certified that the cold leg subassembly met requirements of ASME Section III, 1974 edition through winter 1975.
- (2) The NRC inspector reviewed the procedures and hydro test data applicable to Unit 1, since Unit 2 hydro had not been completed. Requirements for the tests were presented in Procedures CP-QAP-12.2, "Inspection Procedure and Acceptance Criteria for ASME Pressure Testing" and CP-QAP-12.1, "ASME Section III Installation, Verification, and N-5 Certification." Procedure CP-QAP-12.1 requires that a data package to be used in the test, be prepared with the test boundary and the additional following data shown:
  - o Base metal defects in which filler material has been added, and the depth of the base metal defect exceeds 3/8 inch or 10% of the actual thickness, whichever is less.
  - O Untested vendor performed piping circumferential welds.
  - Approximate location and material identification and description for permanent pressure boundary attachment with applicable support number referenced.
  - o Weld history, which shall reflect weld removal and/or weld repair.

The completed hydro data package (PT-5501) for Unit 1. loop 3 cold leg was reviewed for compliance with the above requirements. Drawing No. BRP-RC-1-520-001 had been used to annotate the test boundary. A handwritten statement on the drawing indicated: "No major base metal repairs could be located" and "No hangers with weld attachments could be located." Welds performed by the pipe subassembly vendor, including the 22 degree circumferential weld and the penetration fittings had not been identified. The following items are unresolved pending further review to determine:

- If the statement "no major base metal repairs" was based on a visual inspection or on a review of vendor and site inspection and repair records.
- If the shop circumferential weld attaching the 22 degree elbow to the pipe assembly was inspected during the test.
- If welds for penetrations into pipe assembly were inspected since Procedure CP-OAP-12.1 does not require identification of such welds and they were not identified on the drawing.

The above issues will remain unresolved pending further evaluation by the applicant (445/8507-07; 446/8505-09).

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were identified during inspection of installation records. Training and experience records for the personnel were reviewed to verify that met requirements. examiners, who had performed tasks during installation of the items being inspected, were identified and their qualification records reviewed. There were no questions in this area of the inspection.

No violations or deviations were identified.

# 15. Special Plant Tours (Unit 1 and Unit 2)

On May 23, 1985, the NRC inspector conducted a tour of selected areas of Unit 1 and Unit 2. The group consisted of one NRC inspector, two NRC Technical Review Team (TRT) representatives, two allegers, and several TUEC representatives. The TUEC representatives tagged each area where a deficiency was alleged. With the alleger's consent, a tape recorder was also used to note locations and describe any alleged deficiencies. The allegers indicated that they had identified all deficiencies during the

tour and all other deficiencies that they had knowledge. The NRC TRT is analyzing this information and will decide what action, if any, should be taken. -

During this tour the NRC inspector independently identified a questionable practice in that the top of the the pipe chase at the north end of room 88 in Unit 1, safeguards building had two large stickers which stated that areas on the wall were reserved for pipe hangers GHH-S1-1-SB-038-006 and R1(?)1-087-X11. These stickers were dated 1980. It was not evident whether hangers were missing or none were needed in these locations and the reserve tags were not removed. TUEC representatives were unable to answer the question immediately. This item is unresolved pending further review during a subsequent inspection. (445/8507-08).

No violations or deviations were identified.

# 18. Routine Plant Tours (Units 1 and 2)

At various times during the inspection period NRC inspectors conducted general tours of the reactor building, fuel building, safeguards building, electrical and control building, and the turbine building. During the tours, the NRC inspector observed housekeeping practices, preventive maintenance on installed equipment, ongoing construction work, and discussed various subjects with personnel engaged in work activities.

No violations or deviations were identified.

17. Review of Part 21 and 10 CFR 50.55(e) Construction Reports Status
The NRC inspector reviewed all reports issued to date to assure that NRC and TUEC status logs were complete and up to date. A total of 183 reports have been submitted to date. This inspection period one Part 21 report on Diesel Generator Oil Plugs and two 10 CFR 50.55(e) reports on the Equipment Hatch Cover and SA106 Piping (light wall) were submitted.

No violations or deviations were identified.

# 18. Exit Interviews

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The NRC inspectors met with members of the TUEC staff (denoted in paragraph 1) on May 10 and June 10, 1985. The scope and findings of the inspection were discussed. The applicant acknowledged the findings.