PROCEDURE NO. REVISION PAGE NO. VEGP 00052-C 6 8 of 9 TEMPORARY CHANGE TO PROCEDURE FORM TCP No. 12007-C-14-90-1 Expiration Date 3-26-90 Page / of 27 Required Final Approval Date 3:26.90 PROCEDURE NO. 12007-C REVISION NO. PROCEDURE TITLE REPUBLICASE ENTRY RESPONSIBLE DEPARTMENT CHANGE IS RECOMMENDED TO BE MADE PERMANENT: YES \_\_\_\_ NO REASON FOR CHANGE: Clariby Equations interprete Sovial Para ad adal same has a fer Come Al BRIEF DESCRIPTION: - - 23 his clayed ORIGINATOR DECONIC DATE 3/12 INTERIM APPROVAL ONLY IF NO CHANGE OF INTENT IS INVOLVED COGNIZANT SUPV. : APPROVE X DISAPPROVE 3/12/90 SIGNATURE DATE FINAL APPROVAL - - PRB REVIEW REQUIRED YES \_\_\_\_ NO \_\_\_\_ CHANGE IS TO BE MADE PERMANENT AND FROCEDURE WRITER ASSIGNED: YES NO RESP. DEPT. HEAD: APPROVE DISAPPROVE PR3 RECOMMEND APPROVE DISAPPROVE W7 Kitchens 90.37 MTG NO. DATE GENERAL MANAGER: APPROVE \_\_\_\_ DISAPPROVE \_\_\_\_ W7 Kitchens 3/15/90 9202190447 920116 PDR ADDCK 05000424 Figure 1

NEOF       00052-C       6       9 of 9         ROUTING OF TCP         1. ORIGINATOR - Prepares TCP, mark-up procedure in BLACK.         2. COGNIZANT SUPV Reviews TCP, if approves, forwards to OSOS.         3. OSOS - Reviews for Change of Intent. If approved, forwards to OSOS.         3. OSOS - Reviews for Change of Intent. If approved, forwards to Shift Clerk.         4. SHIFT CLERK - Assigns TCP \$, makes log entries, makes copy for user, forwards original to cognizant supervisor.         5. COGNIZANT SUPERVISOR - Makes working copy for use, send co of interim approved TCP to Document Control. forwards original to responsible department manager/superintendent.         6. DEPT. MGR/SUPT Reviews and approves. If permanent change, assigns responsibility to revise procedure. If PF not required, makes copy for department file and forwards to original to Document Control. If PRB required, forwards to PRB secretary.         7. PRB - Reviews and recommends approval. Forwards to GMNP.         8. GMNP - Reviews and approves, forwarding to the responsible department manager         9. Dept. Manager/Superintendent - Retains copy and forwards to original to Document Control.         10. Document Control - Removes interim copy and files final copy.         DISTRIBUTION         1. Working copy for originator /- Capy.         2. Document Control         3. U1 Contal Rorm       I- capy.         4. U1 Contal Rorm       I- capy.	NEW       00052-C       6       9 of         ROUTING OF TCP         1. ORIGINATOR - Prepares TCP, mark-up procedure in BLACK.         2. COGNIZANT SUPV Reviews TCP, if approves, forwards to OSOS.         3. OSOS - Reviews for Change of Intent. If approved, forwards to Shift Clerk.         4. SHIFT CLERK - Assigns TCP \$, makes log entries, makes or for user, forwards original to cognizant supervisor.         5. COGNIZANT SUPERVISOR - Makes working copy for use, send of interim approved TCP to Document Control, forwards original to responsible department manager/superintender         6. DEPT. MGR/SUPT Reviews and approves. If permanent change, assigns responsibility to revise procedure. If not required, makes copy for department file and forwards original to Document Control. If PRB required, forwards PRB secretary.         7. PRB - Reviews and recommends approval. Forwards to GMNN B. GMNP - Reviews and approves, forwarding to the responsib department manager.         9. Dept. Manager/Superintendent - Retains copy and forwards original to Document Control.         10. Document Control - Removes interim copy and files final copy.         11. Document Control         12. Document Control         13. Working copy for originator /- Capy.         14. Control form         15. U1 Lowbox Shak	UFCD	00050 6	REVISION	PAGE NO.
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Bochlell	NUCLEAR OPERATIONS	rating Plant	Procedure No. 12007-C
1		R	Revision No.
3/8/90	Unit COMMON	Georgia Pow	er Pege No. 1 of 24
UNIT NO.	TCP#120	007-C-14-90-1	TE / /
	DONOT	DOL AFTER 2124110	
	REFL	JELING ENTRY	
	(MODE	5 TO MODE 6)	
1.0	PURPOSE	110	Contract and an and a state of a
	This procedure prov unit from a cold sh temperature between condition (Mode 6),	vides instructions f autdown (Mode 5) wit 80 and 130 degrees and initiating cor	or taking the h Reactor Coolan , to refueling e alterations.
2.0	PRECAUTIONS AND LIM	ITATIONS	
2.1	PRECAUTIONS		
2.1.1	If this procedure i the Unit Shift Supe for the termination	s terminated prior rvisor (USS) should in the comments se	to completion, note the reason ction.
2.1.2	Notify Health Physi evolutions which ma levels.	cs prior to perform y significantly alt	ing operations er radiation
2.1.3	Notify Chemistry pr Containment Equipment ventilation flow wi	ior to installing or nt Hatch that conta 11 be changed during	r removing the inment g this evolution
2.1.4	During periods of op System (RCS) level 1 elevation (194 feet should be closely so limited that has the capability.	peration with the Re below the Reactor V elevation), ongoing crutinized and any v e potential for redu	eactor Coolant essel Flange g work activitie: work activity ucing RHRS
2.1.5	Inadvertent Contains occur during the mov from the cavity to t Physics initiates co inadvertent actuation	ment Ventilation Iso vement of the Reacto the head stand. En- ompensatory actions	olation (CVI) ma or Vessel Head sure Health to prevent

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2.2	LIMITATIONS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
2.2.1	The RCS pre psig and 35 Removal (RH	essure and temperature sh 0 degrees when open to t IR) System.	all not exceed 425 he Residual Heat
2.2.2	In Mode 5, equal to th 3.1.1.2, Fi	shutdown margin shall be e limit specified in Tec gure 3.1-2.	greater than or hnical Specificatio
2.2.3	While in Mc with the Re fully tensi maintained shall be ma whichever i 1208-U4-175 shall be cl stops), exc opened for provided th a setpoint background.	de 6 (whenever fuel is in actor Vessel Head Closury oned or with the head ren at 0.95 or less, or the 1 intained greater than or s more restrictive. Add , 1208-U4-177, 1208-U4-18 osed and secured in posit ept 1208-U4-176 and 1208- short periods of time for e Hi Flux at Shutdown Ala of less than or equal to (Technical Specificatio	n the Reactor Vesse e Bolts less than moved) Keff shall b boron concentration equal to 2000 ppm, itionally, valves 33 and 1208-U4-176 tion (by mechanical -U4-177 may be c chemistry control arm is operable wit 2.30 times on 3.9.1)
2.2.4	When in Mod Train shall a. One ad	e 5, with loops filled, a be operable and in opera	at least one RHR ation, and either:
	b. The se Steam range	condary side water level Generators shall be great level. (Technical Specif	of at least two er than 17% of wid fication 3.4.1.4.1)
2.2.5	While in Mo trains shal shall be in 1208-U4-175 shall be cl stops), exc opened for provided the a setpoint background.	de 5 with the RCS loops r 1 be operable and at leas operation. Reactor Make , 1208-U4-176, 1208-U4-17 osed and secured in posit ept 1208-U4-176 and 1208- short periods of time for e Hi Flux at Shutdown Ala of less than or equal to (Technical Specificatio	not filled. two RHR to one RHR train wp Water Valves 7, and 1208-U4-183 tion (by mechanical U4-177 may be chemistry control trm is operable with 2.30 times on 3.4.1.4.2)
2.2.6	When in Mod equal to 23 least one RI (Technical	e 6, with the water level feet above the Reactor V HR train shall be operabl Specification 3.9.8.1)	greater than or essel Flange, at e and in operation
2.2.7	When in Mode above the Re be operable	e 6, with the water level eactor Vessel Flange, two and at least one RHR tra	less than 23 feet RHR trains shall in in operation.

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2.2.8	While in Moo on, at least Protection S	ies 4, 5, a t one of the Systems (CO)	nd 6 with the e following C PS) shall be	Reactor Vessel Hea old Overpressure operable:
*	a. Two Poy setting establ: 3.4,	ver Operate gs which do lshed in Te or	d Relief Valv not exceed t chnical Speci	es (PORV) with lift he limits fication Figure
	b. Two RHI of 450	R Suction R psig ±3%,	elief Valves or	each with a setpoin
	c. The RC: reliev: (Techn:	S depressur ing at leas ical Specif	ized with an t 670 gpm wat ication 3.4.9	RCS vent capable of er flow at 470 psi (.3)
2.2.9	While in Mod Boron Inject	des 5 and 6 tion Flow P	, at least on aths shall be	e of the following operable.
	a. A flow Boric A the Rea Storage	path from Acid Transf actor Coola e Tank is o	the Boric Aci er Pump and a nt System if perable, or	d Storage Tank via Charging Pump to the Boric Acid
	b. The flo Tank (I Coolan is ope	ow path from RWST) via a t System if rable. (Te	m the Refueli Charging Pur the Refuelin chnical Speci	ng Water Storage p to the Reactor g Water Storage Tai fication 3.1.2.1)
2.2.10	The temperation coclant in 70 degrees Steam Genera Specification	ture of bot the Steem G when the pr ator is gre on 3.7.2)	h th≥ primary enerators sha essure of eit ater than 200	and secondary all be greater than ther coolant in the psig. (Technical
2.2.11	While in Mo Nuclear Ins NR-45 and t alarm opera	de 5 at lea trumentatio he CONTROL ble.	st one channe n should be s ROOM HI FLUX	el of Sour > Range selected to Recorde LEVEL AT SHUTDOWN
2.2.12	While in Mo shall be op the Control Containment 3.9.2)	de 6 both S erable with Room and o and Contro	ource Range M continuous v ne with audit 1 Room. (Tec	Neutron Flux Monito visual indication i ble indication in t chnical Specificati
2.2.13	The reactor hours prior Pressure Ve	shall have to moving ssel. (Tec	been subcrit irradiated fu hnical Specia	tical for at least sel in the Reactor fication 3.9.3)
2.2.14	During Core maintained the Refueli	Alteration between the	s, direct con Control Room (Technical	munications shall and personnel at Specification 3.9.

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2.2.15	While in M Reactor Ve the RWST w 99,404 gal boron conc	fodes 5 and 6, with the RCS essel Flange elevation (194 vill be operable with a mir long (91 of instrument spa entration between 2400 and	5 level below 4 feet elevation), mimum volume of an) of water at a 1 2600 ppm.
3.0	INITIAL CO	NDITIONS	
3.1	The RHR Sy 3000 gpm a	stem is in operation at a nd RHR letdown is in servi	minimum flow of
3.2	Sufficient ordered to	Carbon Dioxide and Nitrog support plant operations.	en is on hand or
3.3	If require the RWST a to support	d, there is sufficient vol t a minimum boron concentr refueling operations.	ume available in ation of 2400 ppm

		REVISION	PAGENO
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UNIT NO.	NAME AND TAXABLE PARTY.		INITIAL
4.0	INSTRUCTI	ONS	an empire and a first finance of
4.1	MODE 5 AN	D 6 OPERATIONS	
		NOTE	
		Asterisk (*) steps beside INITIALS spaces indicates steps that generate additional documents.	
4.1.1	While ope 17% press 207 feet controls	rating with the RCS level urizer level (approximate) elevation) the following should be in effect:	below y
	a. go t ne whil (app pres	n tube watch is required a the RCS level is being ch e the RCS level is below 1 roximately 207 feet elevat surizer level.	iny langed 7% ion)
	(1)	Periodic comparison check should be made every 4 ho between the Control Room Temporary RCS Level Monit and the Tygon tube,	ors
	(2)	The Control Room Monitors should agree within 7 per of scale with the Tygon t	cent ube,
	(3)	Two out of three Level Mo must agree before drainin below the top of the hot (188 feet 3 inches),	nitors g RCS leg
	(4)	If neither Control Room R Level Monitor is availabl then a continuous Tygon t watch should be establish while RCS level is below pressurizer level.	CS e, ube ed 17%

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Sector design and sector and a sector sector and a	All and the second	NTER CONCERNING		an makin dali sa ( yana sa di ci sa		and the second	1	10 0	24
UNIT NO.									
	b .	If i less Vess the shal	t is tha el F foll l be	intend n 3 fee lange ( owing a placed	ed to dra t below t 191 ft. e dditional in effec	in down he Read 1.) the contro t:	to tor n pls	INIT	IALS
		(1)	DET Con and bei or to thr Ves	ERMINE tainmen ENSURE ng clos ENSURE reducin ee feet sel Fla	closure s t Equipme hatch is ed within hatch is g RCS lev below th nge (191	tatus c nt Hato capabl 57 min closed el belo e React ft. el.	of the of tutes prior tw tor ),		
		(2)	A : pen 142 Pen shot bee and tho	eview o etratic 10, "Co etratio uld be ermine n opene an inf se iden	f all Con ns addres ntainment ns - Refu accomplis those whi d by manu o LCO gen tified,	tainmen sed in Buildi eling" hed to ch have al mean erated	ng s for		
		(3)	A m the ava the	inimua rmocoup ilable Reactor	of two ind les shall during per r Head is	core be riods w instal	here led,		
		(4)	REQ dest then to temp "Con	UEST I& ignated rmocoup alarm a perature nputer i	C reset th ERF incor les alarm t 10°F abo per 0041 Software (	ne setpoi ove des 10-C, Control	nt ired		
		(5)	If s inst oper a ve the	SG Nozzi talled a ning is ant pat! Reactor	le Dams and and no col to be est n is requir vessel u	te to b d leg tablish tred fr uppar p	e ed, om lenum.		
			This by:	s vent p	oath can b	e sati	sfied		
			(a)	Removi manway	ing a pres	surize	r		
			(b)	Removi manway will r	ing a Stea on a hot not be dan	m Gene leg t med, o	rator hat r		
			(c)	Removi	ng three	pressu	rizer		

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		en man and a second demonstration of the second devices of the second de		
UNIT NO.	and the second se			INITIAL
*	(6)	If SG Nozzle Dams are installed and a cold 1 opening is to be estab a vent path is require the Reactor Vessel Upp Plenum by removing an manway A. HL this w be damm 1.	to be eg lished, d from er SG ill not	
	(7)	If it is (Rath), a ed c at one foot to mid- level, the preterred R configuration is one t operating with a flow gpm,	perate nozzle HR rain of 3000	
	( <sup>e</sup> )	While operating with S Dams installed, ENSURE Safety Injection Pump of being racked in and in the hot leg injection needed,	G Nozzle one is capable operated on mode if	
	(9)	While level is in the the hot legs, TREND RHD parameters on ERF for a detection of possible H degradation due to vort	region of R Pump early RHR Pump texing,	
	(10)	Minimum RCS level is on above mid-nozzle (188 i O inches elevation) exis Steam Generator burping initial drain down. For effective SG tube drain level should be lowered 187 feet 6 inches. Upon completion of SG burping RCS level to 188 feet and MAINTAIN at this level thereafter.	ne foot feet cept for g during or ning, RCS d to on ng, RAISE - 0 inches evel	
	(11)	A minimum of 4 Contains Cooling Units will be a and capable of being st if required while RCS 1 below 191 feet elevation	nent operable tarted level is on.	

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UNIT NO.		INITIALS
4.1.2	MAINTAIN RCS temperature in range of 80 to 130 degrees and a cotal flow of 3000 gpm by adjusting the RHR System as necessary per 13011, "Residual Heat Removal System".	
4.1.3	During RCP seal package maintenance or SG primary side inspections, MAINTAIN RCS level at 188 feet - 0 inches (one foot above mid-nozzle elevation).	
	NOTE	
	Maintain RCP seal injection in operation while RCS level is greater than 190 feet - 0 inches elevation.	
4.1.4	During preparation for Reactor Vessel head removal, MAINTAIN RCS level less than or equal to 192 feet (two feet below Vessel Flange elevation).	
4.1.5	If the outage is for refueling, then ENSURE that the RCS has been borated to refueling concentration per 13009, "CVCS Reactor Makeup Control System"	

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VEGF	12007	/ = C		14		9 of 24
						The second s
UNIT NO.	-					INITIALS
4.2	PREPA	RATIO	NS FOR R	EFUELING		
4.2.1	Twelv water Cavit INITI prepa sampl	e hou from y or ATE R ratio e.	rs prior the RWS the Reac WST recin n for RWS	to transferr I to the Reac tor Vessel, rculation in ST chemistry	ing tor	
4.2.2	VERIF Canal	Y tha Gate	t the Fue is close	el Pool To Tra ed.	nsfer	
4.2.3	PREPA level Trans the f	RE the for the fer Sy cllow:	e Refueli refueling ystem che ing:	ing Cavity low coperations a ckouts by per	ver and Fuel forming	
				NOTE		
			This step just pric Intent is lead time tube to e benetration provide w fuel Tran	may be defer to head life to provide e to fill the stablish a cc on water seal on for head l ater lubricat sfer System c	red to t. arly transfer ntainment in ift and ion for heckouts.	
	a. 1	PERFOR	NM the fo ment:	llowing prefi	11	
		(1) ( 1 u	LOSE and solation	TAG Cavity D on the appli	rain cable	
		υ	NIT 1:	1-1901-06-26	Ο,	-
		U	NIT 2:	2-1901-06-26	Ο,	
	(	2) E 1	NSURE Ma nstalled	intenance has the 2 Blind	Flanges	

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				7.4	CONTRACTOR STREEMEN	1	10 of 2
UNIT NO.	-				1 <sup>1</sup> 44		INITIAL
•	(3)	ENSU comp Seal Vess Inst	RE Mainter leted Rea ing per 9 el Assemb ructions"	nance h ctor Ca 3240-C, ly/Disa	as vity "Reac ssembl	tor y	
	(4)	ENSU the per Asse Inst	RE Mainter Transfer 7 93240-C, 7 mbly/Disar ructions"	hance h Cube Bl 'Reacto ssembly	as rem ind Fla r Vesso	oved ange el	
	(5)	If t has Tran UNLO Tube	he Transfe been lower sfer Tube CK and OPF Gate Valv	er Cana red to elevat IN the re,	l level below t ion, th Transfe	l the hen er	
	(6)	Afte for CONT samp tota conc spec	r the RWST a minimum ACT Chemis le from th l suspende entration ifications	has r of 6 h try to e RWST d soli is wit	ecircul ours, take a to ver ds hin	lated i rify	
		If t conc spec Clear Fuel Puri	otal suspe entration ifications nup per 13 Pool Cool fication S	nded so is out , INIT: 719, "S ing And ystem"	olids of IATE RW Spent d	IST	
			NOTE				
		If the floor Tube Trans close may h	he Transfe ded above elevation sfer Tube ed, then S be N/A'd.	r Canal the Tra with t Gate Va tep 4.2	l is ansfer the a 'e 2.3b		
	b. FILL from Syst leas (app Fuel per	the the em to t 188 roxim Trans 13719	lower Reac RWST via t an elevat feet - 0 ately 2 fe sfer Tube , "Spent F	tor Can he SFP ion of inches et abov center) uel Poo	vity Coolin at ve the line) ol	g	

the second red.			REVISION			PAGE NO.	Contract and production of	-
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						redenession and and a		
UNIT NO.							INITI	ALS
	c.	If the filled initia grab s Specif	a lower 1, then ate dail samples fication	reactor c NOTIFY Ch y plant v (Technica s Table 4	avity was emistry t ent Triti 1 .11-2 Not	o um e 4).		
Person C	ontac	ted			Date	Tim	e	
4.2.4	PERI	FORM the paration licable	follow valve unit:	ing refue alignment	ling on the			
	а.	ENSURE INNER (OSS E	CLOSED GASKET L - 172	RCS RV SI ISO. feet)	EAL LKOFF			
		UNIT 1	: 1 - 1	201-114-08	7			
		UNIT 2	2 - 1	201-01-087	7		IV	
	b.	CLOSE GASKET	RCS RV I ISO. ((	SEAL LKOFE	FOUTER 172 feet)		IV	
		UNIT 1	: 1 1.	201-04-088	3			
							energiese auf a free	
		UNIT 2	: 2-12	201-04-088	3		IV	
	с.	CLOSE	RV LEAK	OFF ISO HV	- 4032.		IV	
							en les annes de la company	
	d.	ENSURE SEAL S	CLOSED UPPORT I	REACTOR C	YTIVA		IV	
		UNIT 1	: 1-12	213-04-088				
		UNIT 2	2-12	213-04-088			τV	
							and the second second	
							IV	

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UNIT NO.	-		-	INITIALS
4.2.5	If desi pre-hea to 80°F HS-1247	red, reset the FHB HVAC ting Coil-Thermostat fro by placing local hands 0 and HS-12471 to the OM	om 70°F vitches V position.	
4.2.6	NOTIFY locked plugs f Bellows and Con	Health Physics to establ or posted access on the or the Fuel Transfer Tub in the Fuel Handling Bu tainment Building.	ish a concrete e ilding	
4.3	MODE 6	ENTRY		And a second second second second
4.3.1	Prior t detensi (Mode 6	Maintenance Department oning the first Reactor entry), PERFORM the fol	Head Bolt lowing:	
		NOTE		
		If the target time fo into Mode 6 has slipp delays or holds, then the Pre-refueling Che and reperform those a surveillances require performed within the time frames prior to Mode 6.	r entry ed due to review cklist pplicable d to be specified entry into	
	a. IN con wit pr:	TIATE Mode 6 Entry Check pleting those applicable hin the specified time or to entry into Mode 5	klist 1, e steps frames ,	
	b. 031 Cha Sun all sun Mod	AIN from the Control Ko nge Binder or OBTAIN fro veillance Tracking Coord deferred (not performed veillance tests required e 6 entry.	om Mode om the dinator d) d for	
	SCH	EDULE and COMPLETE those	e and an up	

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				Philipping and a set of the second seco
UNIT NO.			*	INITIALS
	c. REV	EW the following for impa ring Mode 6.	act on	
	(1)	Jumper and Lifted Wire J.	.og,	10.19
	(2)	Temporary Modification L	og,	
	(3)	Equipment Clearance Log,		
	(4)	LCO Book,		
	(5)	Outstanding Work Orders.		
		NOTE		
		Two RCS Core Exit Thermo shall be maintained when level is less than 191 f	COUPles RCS t. el.	
	Supe foll disa comp Vess Inst	rvisor to ensure that the owing Reactor Vessel Head ssembly activities have b leted per 93240-C, "React el Assembly/Disassembly ructions".	een or	
	(1)	Seismic Tie Rods moved,		
	(2)	Cables disconnected,		
	(3)	Head Insulation removal,		
	(4)	Head Vent piping disconp	nct.	
	(5)	RVLIS Head connection disconnected,		
	(6)	Instrument port Conoseal disassembly complete.		
4.3.2	OBTAIN On approval Mode 6.	-Shift Operations Supervi to change status from Mod	sor's e 5 to	
	0505	Signature Date	Time	
4.3.3	When noti that the has comme Unit Cont	fied by Maintenance Depar Reactor Vessel Head deten nced, LOG Mode 6 entry in rol Logbook and INITIATE 1	tment sioning to the Mode 6	

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			descent of the second	and the second sec	
UNIT NO.					*******
4.4	MODE	6 OPERA	TIONS		INITIAL
4.4.1	Tr	ddition	es els set at a set a		
	to i if a leas	veillance nitiate pplicabl t once p ificatio	Boron analysis of the Refueling Cavity or 72 hours. (Technica	eartment RCS and, at	
Person Co	ntact	ed	Date	Time	,
4.4.2	COMP	LETE the tor Vess	following to prepare f el Head lift:	or	
			NOTE		
		As Bu Te Wi He	a precaution, Containm ilding Penetrations chnical Specification 3 ll be established durin riods of Reactor Vessel ad movement.	ent .9.4 8	
	a.	NOTIFY the Con will ch ventila	Chemistry that closure tainment Equipment Hatc ange containment tion flow.	of h	
	Ъ.	NOTIFY : Contain System,	Maintenance to reset the ment Personnel Lock Inte	e erlock	
	с.	PERFORM Buildin, Refuelin	14210, "Containment g Penetrations Verificat ng",	tion -	
	d.	ENSURE of for Refu	one train of RHR is aligueling Cavity fill per	gned 13011,	
	UNIT NO. 4.4 4.4.1 Person Co 4.4.2	UNIT NO. 4.4 MODE 4.4.1 In a surv to i if a leas Spec Person Contact 4.4.2 COMP Reac a. b. c. d.	UNIT NO. 4.4 MODE 6 OPERA 4.4.1 In addition surveillance to initiate if applicabl least once p Specification Person Contacted 4.4.2 COMPLETE the Reactor Vess As Bu Te wi pe He a. NOTIFY the Con will ch ventila b. NOTIFY 1 Contain System, c. PERFORM Buildin Refuelin d. ENSURE 4	UNIT NO. 4.4 MODE 6 OPERATIONS 4.4.1 In addition to the scheduled Mode 6 surveillances, NOTIFY Chemistry Der to initiate Boron analysis of the F if applicable, the Refueling Cavity least once per 72 hours. (Technics Specification 4.9.1.1) Person Contacted Date 4.4.2 COMPLETE the following to prepare f Reactor Vessel Head lift: NOTE As a precaution, Contains Building Penetrations Technical Specification 3 will be established durin periods of Reactor Vessel Head movement. a. NOTIFY Chemistry that closure the Containment Equipment Hatc will change containment ventilation flow. b. NOTIFY Maintenance to reset the Containment Personnel Lock Inte System, c. PERFORM 14210, "Containment Building Penetrations Verificat Refueling", d. ENSURE one train of RHR is alig	UNIT NO

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		an de la serie de la serie de la serie de artes de la serie de	
UNIT NO.			
			INITIAL
	61 - L (19	CAUTION	
	I V C f s i t a	Inadvertent Containment Ventilation Isolation (CV bay occur during the move of the Reactor Vessel Hea from the cavity to the hea tand. Ensure Health Phy nitiates compensatory ac to prevent inadvertent ctuations.	I) ment d ad sics tions
	e. COORDI	NATE with the Outage Area	4
	Superv follow comple Vessel Instru	isor to ensure that the ing activities have been ted per 93240-C, "Reactor Assembly/Disassembly ctions".	•
	(1) P	ower and Signal Cables re	emoved,
	(2) F	lux Thimbles withdrawn,	
	(3) T c	ools removed from refuel: avity.	ing
4.4.3	After the h Outage Area filling the feet - 6 in deck) per 1 System".	ead lift, COORDINATE with Supervisor and INITIATE Refueling Cavity to 218 ches (2 feet below operat 3011, "Residual Heat Remo	ing oval
	During the Refueling C Check Valve	process of filling the avity, PERFORM 14895, "EC Refueling Inservice Test	:CS
4.4.4	If the Lower previously to initiate grab sampler Table 4.11-	r Reactor Cavity was not filled, then NOTIFY Chemi daily plant vent Tritium s. (Technical Specificat 2 Note 4)	stry ion
Person Co	ntacted	Date	Time
4.4.5	During the preparations MAINTAIN Res 218 feet - 6 minus 3 inch	remainder of refueling s and core alterations, fueling Cavity level at 6 inches plus 0 inches hes.	

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and a second sec	and the second		
INTE NO			
UNIT NO.	ala de la contra de la contra ante de la contra		INITIALS
4.4.6	PLACE the R System in s Fuel Pool C System",	efueling Cavity Filtration ervice per 13719, "Spent ooling And Purification	
		NOTE	
	Ri Wi at th th be Al	emoval of the Upper nternals Assembly and ithdrawal of any RCCA ssembly in excess of hree feet from its fully hserted position within he Reactor Vessel should a considered as Core lterations.	
4.4.7	Prior to mov Assembly, CO steps of Cor	ving the Upper Internals OMPLETE the applicable re Alterations Checklist 2.	
4.4.8	After the Up been set in the Refuelir stable at 21 that the fue equal to the	oper Internal Assembly has the storage location and ag Cavity level has been 18 feet - 6 inches, VERIFY al pool level is approximately transfer pool level.	
	a. If the not ope then UN Tube Ga	Transfer Gate Valve was ened per Step 4.2.3a(5), NLOCK and OPEN the Transfer ate Valve,	
	b. OPEN th Canal G	ne Fuel Pool To Transfer Sate.	
4.4.9	NOTIFY Chemi Containment	stry to reset PERMS Low Range Area Monitors	

	And the same second second second second	REVISION	PAGENO	allowing the statement of the later of the second
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	and the lot of the local distance of the local distance of the	NAMES AND ADDRESS OF A DESCRIPTION OF A		
UNIT NO.				INITTAL
4.4.10	Frior to tr loads withi Pool with s the Normal the Low Neg FHBI actuat Actuation C the followi	ansporting fuel or other n or over the Spent Fuel pent fuel in the pool and FHB HVAC in service, UNBL ative Differential Pressu ion channels at the BOP abinet QESF by performing ng:	OCK	
	a. VERIFY is abo by obs A-ZI-1 handsw	the FHB negative pressur ve the actuation setpoint erving white lights 2567 and A-ZI-12568 at itch A-HS-2533C OUT,	e	
	b. PLACE the OF	handswitch A-HS-2533C to F position.		and the second
				IV
4.4.11	Prior to con COMPLETE Con	mmencing fuel shuffle re Alterations Checklist	2.	
	LOG the date Alterations Control Logi	e and time that Core are started in the Unit book.		
4.4.12	During Core Alterations l hour, then alterations, REPERFORM th required to specified to initiating of	Alterations, if Core cease for greater than a prior to commencing core , REFER to Checklist 2 and hose applicable surveillar be performed within the ime frames prior to core alterations.	e d nces	

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			el de la desta de las de las de la desta agresa e harges des	and the second	
UNIT NO.	All this spectra to be a second s				INITIAL
4.5	POST-REFUE	LING OPERATIONS			
· · · *		CAUTION			
		Monitor Fuel Pool frequently to ver sealing.	level ify gate	is	
4.5.1	Upon comple post refue SEAL the Fu	etion of Core Alt ling verification uel Pool To Trans	erations , CLOSE fer Cana	and and 1 Gate.	
4.5.2	VERIFY that in the stor LOCK the Tr	t the Fuel Transf red position, the ransfer Tube Gate	er Syste n CLOSE Valve.	m is and	
4.5.3	SHUT DOWN ( System per And Purific	the Refueling Cav 13719, "Spent Fu cation System".	ity Filt el Cooli	ratior ng	
4.5.4	TERMINATE t PROCEED to (Mode 6 to	the use of this i 12000-C, "Refuel Mode 5)".	nstructi ing Reco	on and very	
COMPLETED			22. S. P.	1	
	Signat	ture	Date	Time	
REVIEWED:	Signat	ure	Dete	1	
COMMENTS			rare	TIMe	
	THE REAL PROPERTY AND ADDRESS OF THE PARTY OF THE PARTY OF		erentin başındı. Azərbaica a kalmışı armı		-
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PROCEDURE NO.	and the second second second second	REVISION	
VEGP	12007-C	14	19 of 24
5.0	REFERENCI	CS	
5.1	"Preparat Refuelin	tions For Refueling", Westinghouse ng Guidelines.	
5.2	PROCEDURE	S	
5.2.1	13011,	"Residual Heat Removal System"	
5.2.2	13009,	"CVCS Reactor Makeup Control Syste	em''
5.2.3	13105,	"Safety Injection System"	
5.2.4	13005,	"Reactor Coolant System Draining"	
5.2.5	13615,	"Condensate And Feedwater Systems"	
5.2.6	13719,	"Spent Fuel Pool Cooling And Purif System"	ication
5.2.7	14210,	"Containment Building Penetrations Verification - Refueling"	
5.2.8	12000-C,	"Refueling Recovery (Mode 6 to Mod	le 5)"
5.2.9	93240-C,	"Reactor Vessel Assembly/Disassemb Instructions"	ly

END OF PROCEDURE TEXT

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1.0.04	12007=0	14		20 0
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	M	ODE 6 ENTRY CHEC	CKLIST 1	
UNIT NO.	*			INIT
1.0	Prior to en following h during the requirement into Mode 6	tering in Mode 6 as been successf specified interv s therein are me :	VERIFY the fully complete val and the at for entry	he ated y
1.1	Within 31 d	ays prior to ent	ering Mode	6:
	a. 14228. Survei	"Operations Mon llance Logs".	thly	
		Date	Time	-
	b. 14514-0 Post-A Operab: with in	C, "Fuel Handlin coident Exhaust ility Test". (O rradiated fuel i	g Building System nly applica n the FHB.)	able
		Date	/ Time	
1.2	Within 7 day	ys prior to ente	ring Mode 6	
	a. 14225, Surveil	"Operations Vee Llance Logs",	kly	
		Date	/ Time	
	b. 14423, Channel	"Source Range N Operational Te	IS Analog st".	
		Date	 Time	
1.3	Within 72 ho	ours prior to en	tering Mode	6:
	ENSURE that following re	the more restri activity condit	ctive of th ions is met	e
	a. 14005, and DET necessa	"Shutdown Margi TERMINE that bor ary for Keff of	n Calculati on concentr less than 0	ons", ation .95.
		tod Value		-

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UNIT NO.	and a second second second second second		*	oneec	INI	FIAL
	b. An RC	S boron analysis	from Chemi	stry		
	Depar is eq	tment and VERIFY ual to or greater	concentrat than 2000	ion ppm.		
	RCS B	oron pp	m			
		Date	/ Time			
1.4	Within 12	hours prior to en	tering Mod	e 6:		
	COMPLETE 1 Daily Logs therein are	4000, "Operations ", and VERIFY the e met for entry i	Shift And requireme nto Mode 6	nts		
		Date	/ Time			
REVIEWED:			1			
	Signature	Da	te Time			
COMMENTS:						
	sections for a section of a section of the section	an and the standard state of the provident of the state of	The second second second second second	-		-
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				Sheet	1 of	3
	CO	ORE ALTERATIONS C	HECKLIST 2	2		Ĩ
UNIT NO.	-			I	NITIA	AL
1.0	Prior to e VERIFY the	establishing Core e following:	Alteratic	ons,		
1.1	Within 7 d Alteration Machine lo test has b (Only appl	days prior to est hs, VERIFY the Fu bad test and cran been successfully licable prior to	ablishing el Handlin e interloc completed crane use.	Core k/stop )		
		Date	/ Time	-		
1.2	Within 100 Alteration	hours prior to s VERIFY the fol	establishi lowing:	ng Core		
	a. The R been appli assem assem or co the r	efueling Machine successfully com cable during move blies, rod contro- blies, thimble p ntrol rod drive eactor vessel.)	Load Test pleted. ( ement of f ol cluster lug assemb shafts wit	has Only uel lies, hin		
		Date	/ Time			
	b. The L and a movem React compl movem contr plug shaft	oad Test on each ssociated Load In ent of Drive Rods or Vessel has bee eted. (Only appl ent of fuel assen ol cluster assent assemblies, or co s within the read	Auxiliary dicator u within t an success licable du ablies, ro blies, this ontrol rod ctor vesse	Hoist sed for he fully ring d mble drive 1.)		
		Date	/ Time			
	c. NOTIF Conta System	Y Maintenance to inment Personnel m.	reset the Lock Inter	rlock		
	d. VERIF Build Refue comple	Y that 14210, "Co ing Penetrations ling", has been s eted.	ntainment Verificat: atisfactor	ion- rily		
			1			

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UNIT NO.	-		-	Sheet 2 of 3 INITIALS
1.3	Within 24 Core Alter	hours prior to ations:	establishin	g
	NOTIFY Che required p During Ref	mistry to perf er 35180-C, "C ueling".	orm analysis hemistry Con	trol
		Date	/ Time	
1.4	Within 8 h	ours prior to	establishing	Core Sales
34	COMPLETE 1 Channel Ope	4423, "Source erational Test	Range NIS An	alog
12 Street		Date	/ Time	
1.5	Within 2 ho Alterations	ours prior to a	establishing	Core
	VERIFY that is at least (23 feet at (Only appli	t the Refueling 217 feet - 0 pove the Reacto loable during f	g Cavity wate inches eleve or Vessel fla fuel movement	er level ation ange). t.)
	Refueling (	Cavity Level	ft.	양성 말 가슴 옷을
		Date	/ Time	-
1.6	Within 1 ho Alterations	our prior to es	tablishing (	Core
	a. VERIFY Contro applic establ Shift	communication l Room and per able Refueling ished using 14 And Daily Logs	s between the sonnel at the Stations has 000, "Operat	ne ne is been tions
		Date	/ Time	•
A				

INSERT

standing of the stand off off the

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## NOTE

Source RANGE Acors do not require repersonmence aster a suspension of CORE ALTERATIONS provided :

- \* the suspension of CORE ALTERA-TIONS LASTS LESS THAN & HOURS
- \* BILL ADMINISTRATIVE CONTROLS FOR FUEL MOVEMENT REMAIN IN EFFECT
- \* NO SCHIVITY AFFECTING THE Source TRANGE CHANNELS OCCUP.

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	b. VERIFY subcrit recordi subcrit during the rea	that the Reactor has b tical for at least 100 ing the date and time o ticality. (Only applic movement of irradiated actor vessel.)	een hours by f able fuel in
	Subcrit	ical / Date Time	
	Complet	Date Time	Notes and a second second second
REVIEWED:	Signature	/ Date Tim	é
COMMENTS -			