Tusn	os lacs	NUCLE OPERATIONS	aung Phani State State	49006-0
NUCT	89	Unit _ COMMON	Geomia Pouros	Nembion No.
			Georgia Power	Page No. 1 of 36
HI	EALTH 1	PHYSICS AND CHEMIS	TRY DEPARTMENT OUTAGE A	CTIVITIES
1.0	PI	MDACE	ING PROCEDURE	and a second and a second s
1.1	7%	de anne de la composition de		
	ac id re de de	tivities to chemic entifies the Healt duce radio activit duce exposure to p scribes the suppor fines the responsi	ally treat and layup so h Physics outage active y levels in Plant syst ersonnel during an outa t necessary to complete bilities for providing	vatems, ities to 2ms and age, them, and support.
			NOTE	
		Outage Type Procedure ( Of Outages	es are described in 01000-C, "Management	
1.2	Thi Out the Sys int app	a procedure applie ages and Type V - duration and plan tem Outage, and Ty o Type - IV outage licable.	es to Type IV ~ Extende Scheduled Outages, dep it configuration. If T pe III - Short Forced as, this procedure will	d forced ending upon ype II - Outag turn be
1.3	Dur spe sys inv pro	ing shutdowns and cifications change tems may require h olved can not be s cedure names that	startups for outages, of The cleanup or layur olds where the plant ec ecured Where possible plant equipment.	chemical o of plant uipment this,
2.0	DEP	INITIONS		
.1	ACT	ton PLANS . Written the department rea	n outline of actions to sponsible for their com	be taken
.2	STRU cond repr	CTURED BRIEFINGS fucted by Chemistry resentatives of all	Briefings or action p for departmental pers other responsible dep	lans onnel and artments.

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VEGP	49006-C 0 2 of 36
2.3	CHEMISTRY OUTAGE PLAN - Outline of Chemistry Department Outage Activities developed and maintained by Chemistry Technical Support Group.
2.4	CHEMISTRY EXTENDED LIFE AND PLANT LAY-UP MANUAL - Manual for Lay-up and inspections of Balance of Plant systems.
3.0	RESPONSIBILITIES
3.1	MARAGER-HEALTH PHYSICS/CHEMISTRY
	The Manager-Realth Physics/Chemistry is responsible for the management of all aspects of the Chemistry Section, Health Physics Section and HP/Chemistry Support Section activities during an outage.
3.2	SUPERINTENDENT OF CHEMISTRY
3.2.1	Give direction to chemistry department personnel and the Chemistry Outage Coordinator during outages.
3.2.2	Direct the development of the Chemistry Operations section of the Chemistry Outage Plan.
3.2.3	Review Chemistry data and request corrective actions as necessary.
3.2.4	Maintain adequate supplies of layup and RCS cleanup chemicals.
3.3	SUPERINTENDENT OF HEALTH PHYSICS AND CHEMISTRY TECHNICAL SUPPORT
3.3.1	Give direction to the Technical Support Group Personnel and the Chemistry Outage Coordinator.
3.3.2	Direct the development of the Chemistry Technical Support's outage activities section of the Chemistry Outage Plan.
3.3.3	Provide Technical Support to Chemistry Outage activities.
3.3.4	Assign a Chemistry Outage Coordinator from the Technical Support Group.

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1000       2 of 36         3.4       CHEMISTRY TECHNICAL SUPPORT GROUP OUTAGE COORDINATOR         3.4.1       Develop the Outage Chemistry Plan.         3.4.2       Provide information to other departments as necessary ebout chemistry outage activities.         3.4.3       Track Maintenance Work Orders written to perform inspections and corrective maintenance written by the Technical Support Group Engineers.         3.4.4       Attend outage planning meetings and provide status of chemistry activities.         3.4.5       Attend Plan of the Day meetings with Work Planning.         3.5       CHEMISTRY TECHNICAL GROUP ENGINEERS         3.5.1       Identify inspections and corrective maintenance for outage on systems to which they are assigned.         3.5.2       Write Ms'.tenance Work Orders to perform inspection and corrective maintenance.         3.5.3       Perform inspections as necessary.         3.6.1       Provide technical experties and direction for personnel in the Chemistry Operations Section during outages.         3.6.2       Provide technical experties and direction for personnel in the Chemistry Program during outages.         3.6.3       Schedule qualified personnel in Chemistry Operations Section to suppor outage activities.         3.6.4       Review, schedule and incorporate into analytical schedule requests for support during outages.         3.6.4       Review, schedule and incorporate into analytical schedule requests for support during	NOOEDURE NO.	REVISION PAGE NO.
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3.7.2	Provide organization of ac direction, and assignment the Chemistry Support Prog	tivitiss, techni of work tasks to ram during outag	ical implement ges.	
3.7.3	Schedule qualified special: outage activities.	lete as necessar	ry to support	
3.7.4 .	Provide specialists for ter requested in support of our	chnical assistant tage activities,	ice when	
3.8	CHEMISTRY FOREMAN			
3.8.1	Direct the activities of th Technicians including activ during outages.	he Nuclear Chemi vities in the la	stry boratory	
3.8.2	Review chr detry data of el Nuclear Chemistry Technicis correlations for any abnorm corrective actions for out	analyses perf and during outag palities, and in of-limit condit	ormed by es, conduct itiste ions,	
3.8.3	Ensure all shift activities conducted in accordance wit and the latest revision of standing orders.	during an oute th technical spe approved proced	ge are cifications ures and	
3.9	CHEMISTRY TECHNICAL SPECIAL	ISTS		
3.9.1	Provide technical assistance activities when directed to Supervisor-Support.	e and support o do so by Chemi	utage stry	
3.10	NUCLEAR CHEMISTRY TECHNICIA	NS		
3.10.1	Perform sampling and analys components during outages i specifications and the late procedures.	is of plant sys n accordance wi st revisions of	tems and th technical Chemistry	
3.10.2	Perform chemical additions procedures.	in accordance w	ith Chemistry	
3.10.3	Review data for accuracy an out-of-limit conditions to	d identify and Chemistry Forem	report an on shift.	

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4.0 4.1 4.1.1	TYPE III . MODE 3 or MODE 3 or solate PER clow 350" egas the R	When the I temperatur 350°F, the activated (CRUD) inc purificati baximized the Reacto be through beminerali UMS monito	RCED OUT NOTE Reactor ( re is dec solubil corrosic reases w burst". on flow and any r Coolan the CVC sers.	AGE BY B Coolant Treased ity of m production thich rei The rate sho draining t System S Mixed	System below cts sults ould be g from s should			n - n'a bridge
4.1 4.1.1	MODE 3 or solate PER clow 350"y egas the R	4 When the literature 330°F, the activated (CRUD) include (CRUD) i	NOTE Reactor ( re is dec solubil corrosic reases w burst". on flow and any r Coolan the CVC sers.	Coolant reased ity of n produ hich rea The rate sho draining t System S Mixed	System below cts sults ould be g from s should Red			
4.1.2 p	solate PER clow 350°F	When the l temperatur 330°F, the activated (CRUD) inc un a "Cruc purification the Reactor be through Demineralion (MS monito	Reactor ( re is dec solubil corrosic reases w Burst". on flow and any r Coolan the CVC sers.	Coolant Trassed Lity of m production The rate sho draining t System S Mixed	System below cts sulte culd be g from should Reduid			
4.1.1 1 4.1.2 D	solate PER clow 350°y	MS monito			Neu			
4.1.2 D	egas the R		r RE 480	00 prior	to coo!	ling do	wn	
0	eactor shu ressurizer hutdown,	eactor Co tdown or Vapor sp	olant Sy after rea ace may a	stem to sctor tr tlso be	15 cc/kg ip. The degassed	H <sub>2</sub> pri prior	or to	
4.2 H	ODE 5							
.2.1 I	f the React	tor Coolin	LE SVALAS	10 20	he onene	d 8		
		1	OTE		on opene	a 105 i	WOLKI	
	Pi Re Pi Re	roper cles Bactor Coo ressurized Bactor Coo	inup required and st	ires the tem rem least of p operat	e Aining Ne ting.			
۵.	Degas R	lCS to < 5	cilks Rg	and <0.	.05 uC1/1	m Xa-1	133.	
b.	Reduce	RCS Gross	Anna A	ctivity	to <0.1	uC1/gm	A.	
.2.2 11 Ge sh St sp	the outag nerators a ould not b eam Genera ecification	e is to h hould be a hung on tor's wet a.	e more t placed in the foll layup pa	han 4 da h wet 1a lowing s arameter	ys the f yup. Cl ystems u s are wi	Steam learanc intil t thin	:e :he	

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4.2.3	e. b. c. d. e. f. f. f. f. f. f. f. f. f. f. f. f. f.	Conde Auxil Feedwar Demin Water Steam Steam Conder Steam Conder Steam Conder Steam Conder Steam Conder Steam Conder Steam Conder Steam Conder Steam	nsate St iary Fee ater Lay sralized Treatme Generat Generat Generat Second Second Generat Second Sec	orage Tank dwater Syst up Pump. Water Stor nt Plant. or Recircul or Blowdown stem (Blowdown stem (Blowdown or Layup Pu o be more t em should b tem should b	s. tem. rage Tank. lation Pump. System. lown System mp. than 10 days pe placed in be long pat ing, conden Bolier in a on the foll vater Nester iter System'	Cooling) the cont wet layth h recircu ervice. owing eys s are 20 s wet lay	densate up. ulation va stem 00°F
		Conder	sate sys	stem			
	ъ.	Feedva	ter Heat	ters			
	с,	Feedwa	ter Syst	tem			
	<i>a</i> .	Auxili	ary Boil	ler			
		Dec. A.					
		Condes	sate Sto	brage Tank			
	e. £.	Demine	sete Sto ralized	orage Tank Water Stor	age Tank		
	e. £. &.	Conder Demine Vater	sate Sto Tralised Treatmen	brage Tank Water Stor ht Plant	age Tank		

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5.0	TYPE IV - EXT	ENDED FORCED OUTAC	E SY NODER		
5.1	MODES 3 or 4	Contraction of the			
		NOTE			
	When term 350 acti (CRU in a Puri maxi the be t Demi	n the Reactor Cool perature is decrea "F, the solubility lvated corrosion p JD) increases which "Crud Burst". The fication flow rate mised and any dras Reactor Coolant Sy through the CVCS Mineralizers.	ant System sed below of roducts h results he s should be ining from ystem should ixed Bed		
5.1.1	Isolate PERMS below 350°F.	monitor RE 48000 p	rior to cool	ling down	
5.1.2	Degas che Resc to reactor shu	tor Coolant System tdown or after rea	to 15 cc/kg	H <sub>2</sub> prior	
5.2	MODE 5				
5.2.1	If the Reactor	Cooling System is	to be onene	d for work.	
		NOTE		W SUL WULKI	1
	Property	er cleanup require tor Coolant System surised and at lea tor Coolant Pump of	s the remaining st one perating.		
	e. Degas RCS	to < 5 cc/kg H2 and	d < 0.05 uCi/	gm Xe-133.	
	b. Reduce RCS	Gross Gamma Activ	vity to <0.1	uCi/gm.	
5.2.2	If the outage i Generators shou should not be h Steam Generator specification.	a to be more than ald be placed in we ung on the follows 's wet layup param	4 days the at layup. C ing systems beters are w	Steam learance until the ithin	

HALF BRITER	and an end of the second s	REVISION		IFAGE NO.	1989 - 1987 J.	-
VEGP	49006-0		0	199	8 of 36	
	a. Cond	ensate Stor	rage Tanks.		ang na conservation ng mananan dang	* exclusion
	b. Auxi	liary Feeds	ater Systam.			
	c. Feed	water Layup	Pump.			
	d. Demin	neralized W	ater Storage	Tank,		
	e. Water	r Treatment	Plant.			
	f. Steam	a Generator	Recirculati	on Pump.		
	g. Steau	a Generator	Blowdown Sy	stem.		
	h. Conde	ensate Syst	em (Blowdown	System Cooling	g).	
	i. Steam	Generator	Layup Purp.			
21613	and Feedwa	ter system	should be p	10 days the collaced in wet 1	ondensate syup.	
	The conden with one c maintained Clearance until the and the Co parameters	and the An should not High Press ndensate an are in spo	m should be i pump running uxiliary Boil be hung on t ure Feedwater ad Feedwater scification:	ong path recip condenser van er in service. he following a Heaters are System's wet 1	rculation cuum 200°F Layup	
	The conden with one c maintained Clearance until the and the Co parameters a. Conder	and the An should not Righ Press ndensate an are in spo nsate system	m should be i pump running uxiliary Boil be hung on t ure Feedwater ad Feedwater scification:	ong path racin condenser van er in service. he following a Heaters are System's wet 1	rculation cuum ystem 200°F Layup	
	The conden with one c maintained Clearance until the and the Co parameters a. Conden b. Feedw	and the Ar should not High Press ndensate an are in spo neate syste ater Heater	m should be i pump running, uxiliary Boil be hung on t ure Feedwater ad Feedwater acification: am	ong path recip condenser van er in service. he following a Heaters are System's wet 1	rculation cuum 200°F Layup	
	The conden with one c maintained Clearance until the and the Co parameters a. Conden b. Feedward c. Feedward	and the An should not High Press ndensate an are in spo nsate system ater Heater ater System	m should be i pump running, uxiliary Boil be hung on t ure Feedwater ad Feedwater acification: am	ong path racin condenser van er in service. he following a Heaters are System's wet 1	rculation cuum 200°F Layup	
	The conden with one c maintained Clearance until the and the Co parameters a. Conden b. Feedward c. Feedward d. Auxil:	and the Ar should not High Press ndensate ar are in spo neate system ater Heater ater System iary Boiler	m should be i pump running uxiliary Boil be hung on t ure Feedwater ad Feedwater acification: am	ong path recin condenser van er in service. he following a Heaters are System's wet 1	rculation cuum 200°F Layup	
	The conden with one c maintained Clearance until the and the Co parameters a. Conden b. Feedwo c. Feedwo d. Auxil: e. Conden	ater System ater System ater Store	m should be i pump running uxiliary Boil be hung on t ure Feedwater ad Feedwater acification: am rs a sector for the sector and feedwater acification:	ong path recin condenser vac er in service. the following of Heaters are System's wet 1	rculation cuum 200°F layup	
	The conden with one c maintained Clearance until the and the Co parameters a. Conden b. Feedwo c. Feedwo d. Auxil: e. Conden £. Demine	and the An should not Righ Press ndensate an are in spo nsate system ater Heater ater System iary Boiler nsate Store eralized Wa	m should be i pump running uxiliary Boil be hung on t ure Feedwater ad Feedwater actification: am ts use Tank iter Storage	Tank	rculation cuum 200°F Layup	
	The conden with one c maintained Clearance until the and the Co parameters a. Conden b. Feedwa c. Feedwa d. Auxil: e. Conden f. Demine g. Water	and the Ar should not High Press ndensate an are in spi nsate system iary Boiler neate Stora eralized Wa Treatment	m should be i pump running uxiliary Boil be hung on t ure Feedwater and Feedwater scification: im ter Storage Plant	Condenser van condenser van er in service. The following of Heaters are System's wet 1	rculation cuum 200°F Layup	

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VEGP	49006-C	MEVISION	0	PAGE NO.	9 of	36
5.2.4	If the cut necessary Turbines u guidelines	age is to b to place th nder humidi in the Pla	e longer than e High Pressu ty controlled nt Extended L	60 days re and Lor dry layup	it will w Press p along Manual	be
5.3	MODE 6					
5.3.1	If the Rea be removed < 0.05 uC	ctor Cavity then reduc	is to be fill the RCS Gro	led or the bes Gamma	head Activi	is to ty to
		NC	TE			
		If 2565 is c nonitors in wither Chann (considered 2565C must b	one of the ope step 5.3.2, t els 2565A and one channel) e operable.	rable Len 2365B or		
5.3.2	The 2 out o operable in	f 3 of the Mode 6:	following PER	MS monito	rs shal	1 be
	RE-0002					
	RE-0003					
	RE-2565					
5.3.3	A complete listed in S Control Dur hours) prio Vessel.	set of analy ection 3.6 ( ing Refueling r to moving	yses for all of procedure ing" shall be of fuel elements	sample par S180-C, Surrent (s in the F	Chemis Chemis within leactor	s try 24

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PROCEDURE NO.	with a survival to have been shaded a state of the survey of the state of the survey o	100-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	AN A TO STATISTICS	and all she		work with the first	, lit
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	a an	THE REAL PROPERTY AND ADDRESS OF THE PARTY O	Concernment and which	And the second s	L	10 of 36	6
6.0	TYPE V - 1	CHEDULED O	UTAGES B	Y NODES	AND PPE	TIPI THO	
6.1	MODES 3 or	: 4			MIN ROL	OFFING	
			NOTE				
		When the Re temperature 350°F, the activated of (CRUD) incr in a "Crud Purification maximized a the Reactor be through Demineralis	sactor Co is decr solubili corrosion eases wh Burst". In flow r nd any d Coolant the CVCS ers.	olant i eased i ty of production res The ate sho raining System Mixed	System below outs ould be from shouid Bed		
6.1.1	Isolate PER below 350°F	MS monitor	RE 4800	prior	to cool	ing down	
6.1.2	Degas the R reactor shu	tdown or a	lant Syst fter read	tor tr	15 cc/kg	R <sub>2</sub> prior to	
6.2	MODE 5						
6.2.1	If the Reac	tor Cooling	System	is to b	oe opene	d for work;	
		NC	TE				
	P	roper clean sactor Cool ressurised sactor Cool	up requi ant Syst and at 1 ant Pump	res the em rems east on operat	ining ing,		
	a. Degas 3	LCS to < 5 c	c/kg Ha	and <0.	05 uCi/s	m Xe-133	
	b. Reduce	RCS Gross	Gamma Ac	tivity	to < 0.1	uCi/om	
6.2.2	If the outag Generators s should not b Steam Genera specificatio	e is to be hould be pi s hung on t tor's wet in.	more the laced in the follo layup par	an 4 da wet la pwing s ameter	ys the S yup. Cl ystems u s are wi	team earance ntil the thin	
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	4	. Cond	ensate Sto	orage Tanks.	and the second se		•		
	ь.	Auxi	liary Feed	dwater Syste	<b>n.</b>				
	c.	Feed	water Layu	ap Pump.					
	d,	Demir	neralized	Water Stora	se Tank.				
	۰.	Water	Treatmen	t Plant,					
	f.	Steam	Generato	r Recirculat	ion Pump.				
	g,	8. Steam Generator Blowdown System.							
	h,	h. Condensate System (Blowdown System Cooling).							
	i.	1. Steam Generator Layup Pump.							
6.2.3									
0.2.3	If and The wit mai Cle unt and che	the cut d Feedwa a conden th one contained arances til the I the Contained mical pa	age is to ter system sate system ondensate and the A should no High Press ndensate a arameters	be more the m should be pump runnin tuxiliary Bo of be hung on the hung of the feedwater are in speci	n 10 days th placed in we long path r s. condenser lier in serv h the follow ar Heaters and System's we fication:	<pre>* conder t layup. ecircula vacuum ice. ing syst rs 200° at layup</pre>	tion F		
0.2.3	If and The wit mai Cle unt and che a.	the cut d Feedwa conden th one contained arances til the for mical pa Conden	age is to ter system sate system ondensate and the A should not Righ Press adensate a arameters heate syst	be more the m should be sm should be pump runnin tuxiliary Bo of be hung on ture Feedwate are in spect	n 10 days th placed in we long path r s. condenser lier in serv h the follow er Heaters and System's we fication:	<pre>* conder t layup. ecircula vacuum ice. ing syst re 200° at layup</pre>	em F		
0.2.3	If and The wit mai Cle unt and che a. b.	the cut d Feedwa conden th one contrained erances til the for mical pa Conden Feedwa	age is to ter system sate system ondensate and the A should not High Press ndensate a arameters naate syst ater Heate	be more the m should be em should be pump runnin tuxiliary Bo of be hung on ture Feedwat are in spect em rs	n 10 days th placed in we long path r s. condenser lier in serv h the follow ar Heaters a: System's we fication:	<pre>* conder t layup. ecircula vacuum ice. ing syst re 200* at layup</pre>	ition F		
0.2.3	If and The with mai Cle unt and che a. b. c.	the cut d Feedwa conden th one contained tharances til the for mical pa Conden Feedwa Feedwa	age is to ter system sate system ondensate and the A should no High Press ndensate a arameters naate system ter Neate	be more the m should be pump runnin tuxiliary Bo of be hung on the hung of the hung of the hung of the hung of the hung of the hung of the hung of the hung of the hung of the hung of the	n 10 days th placed in we long path r s. condenser lier in serv h the follow ar Heaters and System's we fication:	<pre>* conder t layup. ecircula vacuum ice. ing syst rs 200° at layup</pre>	ition em F		
0.2.3	If and The with mai Cle unt and che a. b. c. d.	the cut d Feedwa e conden th one conden th one conden that ind erances til the for mical pa Conden Feedwa Feedwa Auxil:	age is to ter system sate system ondensate and the A should no High Press adensate a arameters heate system ter Heate ater System ary Boile:	be more the m should be sem should be pump runnin tuxiliary Bo of be hung on ture Feedwate are in speci em rs m	n 10 days th placed in we long path r s. condenser lier in serv n the follow er Heaters an System's we fication:	<pre>* conder t layup. ecircula vacuum ice. ing syst re 200° at layup</pre>	asate ition		
0.2.3	If and The wit mai Cle unt and che a. b. c. d. e.	the cut d Feedwa e conden th one contrained erances til the for mical pa Conden Feedwa Auxil: Conden	age is to ter system sate system ondensate and the A should no High Press ndensate a arameters naate system ater Neate ater System ary Boiles sate Storn	be more the m should be em should be pump runnin tuxiliary Bo ot be hung on ture Feedwat are in spect em rs m r age Tank	n 10 days th placed in we long path r s. condenser lier in serv h the follow ar Heaters and System's we fication:	<pre>* conder t layup. ecircula vacuum ice. ing syst re 200° at layup</pre>	em F		
0.2.3	If and The witt mai Cle unt and che a. b. c. d. e. f.	the cut d Feedwa conden th one contrained arances til the for mical pa Conden Feedwa Auxil: Conden Demine	age is to ter system sate system ondensate and the A should no High Press ndensate a arameters naate system ater Heate ater System ary Boiles sate Storn relized Wa	be more the m should be em should be pump runnin tuxiliary Bo of be hung on th	n 10 days th placed in we long path r s. condenser lier in serv h the follow the follow theaters at System's wi fication:	<pre>* conder t layup. ecircula vacuum ice. ing syst re 200° at layup</pre>	asate ition F		
0.2.3	If and The with mail Cle unt and che a. b. c. d. e. f. g.	the cut d Feedwa e conden th one conden th one conden that ined erances til the feedwa feedwa Feedwa Auxil: Conden Demine: Water	age is to ter system sate system ondensate and the A should no High Press ndensate a arameters heate system ter Neate ater System ary Boiles sate Storn relized Wa Treatment	be more the m should be pump runnin tuxiliary Bo of be hung on the Feedwaten are in spect em rs m r age Tank ater Storage Plant	n 10 days th placed in we long path r s. condenser lier in serv h the follow the follow	<pre>* conder t layup. ecircula vacuum ice. ing syst re 200° at layup</pre>	asate ition F		

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6.2.4	If the outage is to be longer than 60 days it will be necessary to place the High Pressure and Low Pressure Turbines under humidity controlled dry layup along guidelines in the Plant Extended Life Layup along
6.3	MODE 6
6.3.1	If the Reactor Cavity is to be filled or the head is to be removed, then reduce the RCS Gross Gamma Activity to < 0.05 uCi/gm prior to opening reactor vessel head.
	NOTE
	If 2565 is one of the operable monitors in step 6.3.2, then either Channels 2565A and 2565B (considered one channel) or 2565C must be operable.
6.3.2	The 2 out of 3 of the following PERMS monitors shall be operable in Mode 6:
	RE-0002
	RE-0003
	RE-2565
6.3.3	A complete set of analyses for all sample parameters listed in Section 3.6 of procedure 35180-C, "Chemistry Control During Refueling" shall be current (within 24 hours) prior to moving fuel elements in the Reactor Vessel.
6.4	Refueling
6.4.1	RWST Cleanup
	e. The RWST is normally recirculated through tha Sludge Mixing Pump and Heater.
	NOTE
	Step 6.4.1.b is for water clarity purposes.

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YEUP	49	005-0	0	- I most mark	15 0# 38
	b.	At 1 reci: Demi: Puri: suspe	east four weeks princulate RWST with the neralizers and Filt fication Pump until anded solids is obt	or to beginnin the Spent Fuel er using the Re the specificat sined.	s of cutage, Pool afueling Water tion for
		SPECI	SUSPENDED SOLIDS	0.350 PPM	
6.4.2	Spe	nt Fuel	Pool		
	۴.	The S Spent to th 5.4.1	Pent Fuel Port is r Fuel Pool purifica e outage the RWST f .b.	normally lined stion system. Le lined up per	up to the Just prior Section
	ь.	Borati	e Fuel Pool to refu 000 ppm) one month	eling Concentration prior to outage	ation
	c.	When the Purific recirco	the RWST has been c ication System is r culating.	leaned up, insu ealigned to the	FP SFP and
6.4.3	Repl	acement	of Letdown Resin	Beda	
	4.	Mixed	Bed Resin		
		The in > so Mixed	for I-131 and or Co Bed should be new a	d Bed should ha 2-58. The stan	va a DF of aby CVCS
	ь.	Cation	Led Rest.		
		The CVI Lithiu	CS Cation Bed shoul a removal.	d demonstrate a	DF> 50 for
	c.	Resin b least o replace	beds shall be repla one replacement Cat ment Mixed Beds sh	ced as necessar ion Bed and Two ould be evailable	y. At
.4.4	React (H202	or Cool	lant System Cleanup	with Hydrogen	Perczide
	a. 1	Laborat	ory Preparation		

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	1.	Prepare Hydrogen Peroxid method for Photospectrom	le (H202) analytical
	2.	Order Plastic cuvetts fo	f spectrophotometer
	3.	Prepare Nickel (Ni) anal Atomic Absorption Photos	ytical method for the pectrometer.
	4.	Develop Calibration Curvi necessary to support anal	es and standards lytical methods.
		NOTE	
		cleanup may generate Gros activity levels in excess 1.0 uCi/gm. The Purifica flowrate should be maximi any drainage from the RCS be chrough the CVCS Mixed Demineralizer.	s Gamma of tion Sed and should Bed
	5.	Perform a Structured Brie Technicians on Radiologic handling Reactor Coolant cleanup. Technicians need structured briefing on the	fing for Laboratory al safety in Eamples from d attend only one is topic.
	b. At Sh	utdown i	
	1.	Segin 4 hour Gamma Isotopi elemental analysis for Ni specification analysis for obtain latdown flow rate.	to analyses and with the technical p DEQ I-151 and
	2,	Ensure Operations Departme refueling concentration.	int borates RCS to
		Sorate as necessary to kee removal by a new resin bed	p up with the
	3. 1	Segin degaseing from 15 cc and < 0.05 uCi/gm Xe-13	/kg to < 5 cc/kg H2

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	4	. Place a new CVCE Mixed Bed in commiss	-
		a. Draw Gamma Isotopic and Boron DF samples every & hours.	
		b. When Boron DF is < 10, analysis may be stopped. Continue Gamma Isotopic analyses until cleanup is complete.	
	c. Co	oldown/Draindown	
		NOTE	
		Mixed Bed demineralizer at approximately 75 gallons per minute. Flow depends on system pressure.	
	1.	The plant should have been placed on RHR, cooled down to 110°F, and drained down to midloop via the purification (CVCS) mixed bed demineralizers prior to H 0	
	d. Cle	anup	
	1.	When the draindown is complete, Hydrogen Peroxide should be added,	
		NOTE	
		This cleanup will require a minimum of 60 pints of uninhibited hydrogen peroxide (H2O2).	
	2.	Add 10 pints of uninhibited H.O.	
		Maintain a 0.5 ppm 0. concentration	

ppm  $H_2O_2$  residual, with a maximum of 10 ppm  $H_2O_2$  addition.

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<ul> <li>3. Place Standby Mixe<sup>4</sup> bed in service as necessary.</li> <li>Replace used Mixed Bed as Necessary.</li> <li>4. Co-58 activity will peak. Continue clean veing NHR pumps.</li> <li>NUTE</li> <li>Does Equivalent Iodine should be below 0.luci/gm and Xe-133 below 0.suci/gm prior to opening the Reactor Coolant System.</li> <li>5. Continue clean.p while on RHR through the purification system until Co-58 activity in less than 0.05 uci/gm.</li> <li>6. A new purification (GVCS) mixed bed should placed in service prior to the Reactor Cavid sing filled.</li> <li>6.4.5 PERMC monitors required for "trat refueling and will normally be operational priow to MODE-6.</li> <li>RE-25328</li> <li>RE-25338</li> <li>RE-25338</li> <li>RE-25658</li> <li>RE-25658</li> <li>RE-25650</li> <li>RE-002</li> </ul>	VEGP	49006-0	O CONTRACTOR	PAGE NO.
Replace used Mixed Bed as Necessary. 4. Co-58 activity will peak. Continue clean NUTE Dose Equivalent Iodine should be below 0.1uci/gm prior to opening the Reactor Coolant System. 5. Continue cleanup while on RHR through the purification system until Co-58 activity in less than 0.05 uci/gm. 6. A new purification (CVCS) mixed bed should placed in service prior to the Reactor Cavi being filled. 6.4.5 PERMC monitors required for "trat refusing and will normally be operational prio. to MODE-6. RE-2532A RE-2533A RE-2533B RE-12116 RE-1217 RE-2565A RE-2565B RE-2565C RE-002		3 3	Place Standby Mixe" bed necessary.	in service as
<ul> <li>4. Co-58 activity will peak. Continue clean vsing NHR pumps. NUTE</li> <li>Dose Equivalent Iodine should be below 0.1uci/gm prior to opening the Reactor Coolant System.</li> <li>5. Continue cleanup while on RHR through the purification system until Co-58 activity in less than 0.05 uci/gm.</li> <li>6. A new purification (CVCS) mixed bed should placed in service prior to the Reactor Caviber being filled.</li> <li>6.4.5 PERME moultors required for "irst refueling end will normally be operational prio. to MODE-6.</li> <li>RE-25328</li> <li>RE-25338</li> <li>RE-12116</li> <li>RE-12116</li> <li>RE-25658</li> <li>RE-25658</li> <li>RE-25650</li> <li>RE-25650</li> <li>RE-002</li> </ul>			Replace used Mixed Bed a	Necessary
NUTE Does Equivolation Iodine should be below 0.05 uci/gm prior to opening the Resector Coolant System. . Continue cleanup while on RHR through the purification system until Cools activity in tess than 0.05 uci/gm.		4.	Co-58 activity will peak using RHR pumps.	. Continue cleanup
Dose Equivalent Iodine should be below 0.luci/gm and Xe-133 below 0.05 uci/gm prior to opening the Reactor Coolant System. 5. Continue clean_p while on RHR through the purification system until Co-55 activity in less than 0.05 uci/gm. 6. A new purification (CVCS) mixed bed should placed in service prior to the Reactor Cavi being filled. 6.4.5 PERMS monitors required for first refusing and will normally be operational prio. to MODE-6. RE-2532A RE-2533A RE-2533B RE-2533B RE-12116 RE-12117 RE-2565B RE-2565B RE-2565C RE-002			NUTE	
<ol> <li>Continue clean-p while on RHR through the purification system until Go-56 activity in less than 0.05 uci/gm.</li> <li>A new purification (GVCS) mixed bed should placed in service prior to the Reactor Cavibeing filled.</li> <li>PERMS monitors required for *(rst refueling and will normally be operational prio: to MODE-6.</li> <li>RE-2532A</li> <li>RE-2533B</li> <li>RE-2533B</li> <li>RE-12116</li> <li>RE-12117</li> <li>RE-2565A</li> <li>RE-2565B</li> <li>RE-2565C</li> <li>RE-002</li> </ol>			Dose Equivalent Iodine sh be below 0.luci/gm and Xe below 0.05 uci/gm prior t opening the Reactor Coola System.	ould -133 o nt
<ul> <li>6. A new purification (CVCS) mixed bed should placed in service prior to the Reactor Cavibeing filled.</li> <li>6.4.5 PERMS monitors required for first refueling end will normally be operational prio: to MODE-6.</li> <li>RE-2532A</li> <li>RE-2533A</li> <li>RE-2533B</li> <li>RE-12116</li> <li>RE-12117</li> <li>RE-2565A</li> <li>RE-2565B</li> <li>RE-2565C</li> <li>RE-002</li> </ul>		5.	Continue cleanup while on urification system until ess than 0.05 uci/gm.	RHR through the Co-56 activity is
6.4.5 PERMS monitors required for "irst refusiing and will RE-2532A RE-2532B RE-2533B RE-2533B RE-12116 RE-12117 RE-2565A RE-2565B RE-2565C RE-002		6.	new purification (CVCS) laced in service prior to eing filled.	mixed bed should be the Reactor Cavity
RE-2532A RE-2532B RE-2533A RE-2533B RE-12116 RE-12117 RE-2565A RE-2565B RE-2565C RE-002	6.4.5	PERMS mouit normally be	operational prio: to MOD	fueling and will
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RE-2533A RE-2533B RE-12116 RE-12117 RE-2565A RE-2565B RE-2565C RE-002		RE-2532B		
RE-2533B RE-12116 RE-12117 RE-2565A RE-2565B RE-2565C RE-002		RE-2533A		
RE-12116 RE-12117 RE-2565A RE-2565B RE-2565C RE-002		RE-25338		
RE-12117 RE-2565A RE-2565B RE-2565C RE-002		RE-12116		
RE-2565A RE-2565B RE-2565C RE-002		RE-12117		
RE-2565B RE-2565C RE-002		RE-2565A		
RE-2565C RE-002		RE-2565B		
RE-002		RE-2565C		
		RE-002		
RE-003		RE-003		

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7.0	PLANT SHUTDOWN/COOLDON
	Urgent or Emergency Containment Entries are performed in accordance with Section 4.2 of Procedure 00303-C, "Containment Entry".
7.1	MODES 1 TO 3
7.1.1	Radiological Precautions
7.1.1.1	Containment Entries during modes 1, 2, 3, or 4 are performed in accordance with Section 4.1 of Procedure 00303-C, "Containment Entries".
7.1.2	Reactor Coolant System
7.1.2.1	If there is greater than a 15%/Hr reduction in reactor thermal power, or the reactor is started up or shutdown. Data Sheet 5 of 35110-C, "Chemistry Control Of The Reactor Coolant System", must be completed
	Operations Department will be borating the reactor coolant system to shutdown concentrations and requesting analyses.
7.1.3	Steam Generators
7.1.3.1	At less than 31 Reactor power, the Steam Generators are transferred to the Auxiliary Feedwater Pumps (AFW). Steam Generator Blowdown continues in operation.
7.1.3.2	If chemicals are not added to the CST or the reactor has been tripped, it may be necessary to align chemical feed up to AFW pump discharge using the Feedwater Leyup pump.
7.1.3.3	Chemical additions to Steam Generators are made in accordance with Section 3.9 <u>Condensate Chemical</u> <u>Injection When the Plant is In Mestup or Low Power</u> <u>Operation of Procedure 35335-C.</u> "Operation Of The Condensate Chemical Injection System".
7.1.3.4	The Steam Generators are sampled once per shift in accordances with Section 4.7.1 <u>Heatup/Hct Standby</u> (Greater than 220°F Less Than or Equal to 51 Power of Procedure 35210-C, "Chemistry Control Of The Steam

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<ul> <li>VESP 49006-C</li> <li>Agence Agence Agence</li> <li>Agence Agence Agence</li> <li>Agence Agence</li> <li>Agence</li> <li>Agen</li></ul>	PROCEDURE NO.	and the second	A Green	のななななので	Contraction of the		41 15	A Start
<ol> <li>Secondary System</li> <li>Frior to a reaching 251 power or after trip, chemistry can make themical additions of Ammonium and Hydroxine to the Condensate Storage Tank".</li> <li>The Condensate Storage Tank".</li> <li>The Heater Drain pumps should be stopped when the Reactor power is below 251 Power.</li> <li>One Main Feed Pump (MFP) is secured below 31 power.</li> <li>Chemistry should request that the Condensate and Feedwater systems in all long path recirculation. If the outage is to be 10 days. Section 4.6 Shuddown - Should De Term Wet Layup, of Procedure Systems".</li> <li>If the outage is to be 10 days. Chemistry should _ake preparations for wet layup of Condensate such that the condensate such that the condensate such as the condensate and feedwater systems that the Section 4.5.2.2 of Procedure systems in accordance with Section 4.5.2.2 of Procedure Systems are 200°F and vacuum is broken in the condensate below 252 Reactor and the Condensate such as the condensate of the Circulating Water System via the America soft the Circulating Water System via the America Systems.</li> <li>Support Systems</li> <li>The Auxiliary Boiler is started below 255 Reactor and the DW plant should be placed in operation. The Auxiliary Sotler will require about 150 gpm of makeup for the Marketer.</li> <li>MODE 3 COOLDOWN</li> <li>Reactor Coolant System</li> </ol>	VEGP	49006-C	EVISION	199 6 G	PAGE NO	18	01	36
<ul> <li>7.1.4.1 Prior to a reaching 251 power or after trip, chemistry can make themical additions of Aumonium and Hydroxine to the Condensate Storage Tank (CST) in accordance with Section 4.8 of Procedure 3520-C. "Chemistry Control Of The Condensate Storage Tank".</li> <li>7.1.4.2 The Hester Drain pumps should be stopped when the Reactor power is below 251 Power.</li> <li>7.1.4.3 One Main Feed Pump (NFP) is secured below 31 power.</li> <li>7.1.4.4 Chemistry should request that the Condensate and Feedwater systems remain in long path recirculation. If the outage is to be 10 days, Section 4.6 Shutdown - Control Of The Condensate And Feedwater Systems", explice.</li> <li>7.1.4.5 If the outage is to be 10 days, Chemistry should take preparations for wet layup of condensate and feedwater systems in accordance with Section 4.5.2.2 of Procedure 35220-C. The system should confirm no tube leals in the condensate 200°F and vacuum is broken in the condensate.</li> <li>7.1.4.6 Chemistry Leyartment should confirm no tube leals in the condensate pump until the High Pressure Feedwater and the Systems.</li> <li>7.1.4.6 Chemistry Department should confirm no tube leals in the condensate.</li> <li>7.1.4.7 The Auxiliary Boiler is started below 251 Reactor and the DM plant should be placed in operation. The Auxiliary Boiler will require about 150 gpm of makeup feedwater.</li> <li>7.2 MODE 3 COOLDOWN</li> <li>7.2.1 Reactor Coolant System</li> </ul>	7.1.4	Secondary Sy	ystem		and the endotries are not an endotries			
<ul> <li>7.1.4.2 The Heater Drain pumps should be stopped when the Reactor power is below 231 Power.</li> <li>7.1.4.3 One Main Feed Pump (MFP) is secured below 31 power.</li> <li>7.1.4.4 Chemistry should request that the Condensate and Feedwater systems remain in long path rectrculation. If the outage is to be 10 days, Section 4.6 Shutdown - Short Term Wet Layup, of Procedure 35220-C. "Chemistry control Of The Condensate And Feedwater Systems", applies.</li> <li>7.1.4.5 If the outage is to be 10 days, Chemistry should take preparations for wet layup of condensate and feedwater systems in accordance with Section 4.5.2.2 of Procedure 35220-C. The system should be operated with one condensate pump until the High Pressure Feedwater Hesters are 200°F and vacuum 10 broken in the condensate by Helium Leak detection method, crecking a 1 watercoxes of the Circulating Water System via the Amerity Systems</li> <li>7.1.5.1 The Auxiliary Boiler is started below 251 Reactor and the DM plant should be placed in operation. The Auxiliary Boiler will require about 150 gpm of makeup feedwater.</li> <li>7.2 MODE 3 COOLDOWN</li> <li>7.2.1 Reactor Coolant System</li> </ul>	7.1.4.1	Prior to a r can make the to the Conde Section 4.8 The Condensa	eaching micsl s msate f of Proc	dditions of dditions of storage Tank edure 35250- tage Tank".	Aumonium a (CST) in a C, "Chemis	ip, che nd Hydr ccordar try Cor	carin ice s itrol	try he with L Of
<ul> <li>7.1.4.3 One Main Feed Pump (MFP) is secured below 31 power.</li> <li>7.1.4.4 Chemistry should request that the Condensate and Feedwater systems remain in long path recirculation. If the outage is to be 10 days. Section 4.6 Shutdown - Short Term Wet Layup, of Procedure 35220-C. "Chemistry applies.</li> <li>7.1.4.5 If the outage is to be 10 days. Chemistry should _ake preparations for wet layup of condensate and feedwater systems". systems in accordance with Section 4.5.2.2 of Procedure 35220-C. The system should be operated with one condensate pump until the High Pressure Feedwater heters are 200°F and vacuum is broken in the condensar.</li> <li>7.1.4.6 Chemistry Department should confirm no tube leals in the condensar by Helium Leak detection method, crecking a 1 watarpoxes of the Circulating Water System via the Amerter Systems.</li> <li>7.1.5 Support Systems</li> <li>7.1.5.1 The Auxiliary Boiler is started below 251 Reactor and the DM plant should be placed in operation. The Auxiliary Boiler will require about 150 gpm of makeup feedwater.</li> <li>7.2 MODE 3 COOLDOWN</li> <li>7.2.1 Reactor Coolant System</li> </ul>	7.1.4.2	The Heater D Reactor powe	rain pu r is be	mps should b low 25% Powe	e stopped w	when th	6	
<ul> <li>7.1.4.4 Chemistry should request that the Condensate and Feedwater systems remain in long path recirculation. If the outage is to be 10 days, Section 4.6 Shutdown - Short Term Wet Layup, of Procedure 35220-C. "Chemistry applies.</li> <li>7.1.4.5 If the outage is to be 10 days, Chemistry should take preparations for wet layup of condensate and feedwater systems in accordance with Section 4.5.2.2 of Procedure 35220-C. The system should be operated with one condensate pump until the High Pressure Feedwater Hesters are 200°F and vacuum is broken in the condensate.</li> <li>7.1.4.6 Chemistry Lepartment should confirm no tube leals in the condenser by Helium Leak detection method, crecking a 1 waterboxes of the Circulating Water System via the America Systems.</li> <li>7.1.5.1 The Auxiliary Boiler is started below 251 Reactor and the DM plant should be placed in operation. The Auxiliary Doiler will require about 150 gpm of makeup feedwater.</li> <li>7.2 MODE 3 COOLDOWN</li> <li>7.2.1 Reactor Coolant System</li> </ul>	7.1.4.3	One Main Fee	d Pump	(MFP) is sec	ured below	32 DON	er.	
<ul> <li>7.1.4.5 If the outage is to be 10 days, Chemistry should take preparations for wet layup of condensate and feedwater systems in accordance with Section 4.3.2.2 of Procedure 35220-C. The system should be operated with one condensate pump until the High Pressure Feedwater Herters are 200°F and vacuum is broken in the condenser.</li> <li>7.1.4.6 Chemistry Department should confirm no tube leals in the condenser by Helium Leak detection method, crecking a 1 waterDockes of the Circulating Water System via the Amerite Systems.</li> <li>7.1.5 Support Systems</li> <li>7.1.5.1 The Auxiliary Boiler is started below 25% Reactor and the DM plant should be placed in operation. The Auxiliary Boiler will require about 150 gpm of makeup feedwater.</li> <li>7.2 MODE 3 COOLDOWN</li> <li>7.2.1 Reactor Coolant System</li> </ul>	7.1.4.4	Chemistry sho Feedwater sys If the outage Short Term We Control Of Th applies.	ould re- stems re s is to st Layun as Condo	quest that the emain in long be 10 days 2. of Proceeds ensate And Fe	he Condense 8 path reci , Section 4 ure 35220-C aedwater Sy	te and rculat .6 Shu , "Cher stems"	ion. tdown	n - ry
<ul> <li>7.1.4.6 Chemistry Department should confirm no tube leals in the condenser by Helium Leak detection method, crecking a 1 waterboxes of the Circulating Water System via the Amertop System, prior to securing condenser vacuum.</li> <li>7.1.5 Support Systems</li> <li>7.1.5.1 The Auxiliary Boiler is started below 251 Reactor and the DM plant should be placed in operation. The Auxiliary Joiler will require about 150 gpm of makeup feedwater.</li> <li>7.2 MODE 3 COOLDOWN</li> <li>7.2.1 Reactor Coolant System</li> </ul>	7.1.4.5	If the outage preparations systems in ac 35220-C. The condensate pu Hesters are condensor.	is to for wet cordanc system mp unti 200°F s	be 10 days, layup of co with Sectionshould be co the High P and vacuum ic	Chemistry Indensate and Ion 4.5.2.2 perated with ressure Feat broken in	should nd feed of Pro th one edwater the	vate cedu	te Ir Ire
<ul> <li>7.1.5 Support Systems</li> <li>7.1.5.1 The Auxiliary Boiler is started below 251 Reactor and the DM plant should be placed in operation. The Auxiliary Joiler will require about 150 gpm of makeup feedwater.</li> <li>7.2 MODE 3 COOLDOWN</li> <li>7.2.1 Reactor Coolant System</li> </ul>	7.1.4.6	Chemistry Depi the condenser a 1 waterocxes Amertop System	artment by Hel s of th s, prio	should conf ium Leak det e Circulatin r to securin	ira no tube ection meth g Water Sys g condenser	leals nod, cr item vi	in ecki a th	ng
<ul> <li>7.1.5.1 The Auxiliary Boiler is started below 25% Reactor and the DN plant should be placed in operation. The Auxiliary Joiler will require about 150 gpm of makeup feedwater.</li> <li>7.2 MODE 3 COOLDOWN</li> <li>7.2.1 Reactor Coolant System</li> </ul>	7.1.5	Support System	83			10000	10 v	
7.2 MODE 3 COOLDOWN 7.2.1 Reactor Coolant System	7.1.5.1	The Auxiliary the DM plant s Auxiliary Joil feedwater.	Boiler hould h er will	is started to be placed in l require abo	operation. operation. out 150 gpm	eactor The of ma)	and ceup	
7.2.1 Reactor Coolant System	7.2	MODE 3 COOLDOW	N					
	7.2.1	Reactor Coolan	t Syste					

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7.2.1	Rydrogen. If the RCS is to be opened for maintenance then it should be degassed down to <5 cc/kg P and 0.05 uCi/gm Xe-133.
7.2.1.2	Reactor Coolant System chemical parameters must be within specifications of Table 1 of Procedure 35110-C, "Chemistry Control Of The Reactor Coolant System"
7.2.2	Borated Water Sources
7.2.2.1	When RCS Pressure is below 1000 paig, the accumulators no longer require Technical specification surveillances.
7.2.3	Sterm Generators
7.2.3.1	Sample once per shift in accordance with Section 4.7 of Procedure 35210-C. "Chemistry Control Of The Steam Generators". When steam generator pressure becomes too low. Operations Department will transfer from steam dumps to Atmospheric relicfs.
7.2.4	Secondary
	When steam pressure becomes too low, the main feed pump will be secured.
7.3	MODE 4
7.3.1	RCS/Reactor Heat Removal System (RRR)

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When the Reactor Coolant System temperature is decreased below 350°F to 140°F, the solubility of activated corrosion products (CRUD) increases as temperature decreases, which results in a "Crud Burst". The Purification flow rate should be maximized and any draining from the Reactor Coolant system should be through the CVCS Mixed Bed Demineralizers.

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7.3.1.1	At 34C°F put in set of RHR, F of Table 1	/ 425 paig at least on rvice. Chemistry must RHR parameters must be and Table 2 of Proce	e train of RHR can be perform Boror analysis within specifications dure 35110-C.
7.3.1.2	If a MODE prerequisi procedure Refueling	6 entry is anticipate tes for MODE 6 entry, for Extended Outage s Outage.	d, commence Section 4.6.3 of this id Section 4.6.4 for a
7.3.2	Borated Wa	ter Sources	
7.3.2.1	The Refuel Storage Ta specificat 30090-C, " Coordinatio	ing Water Storage Tank nks should be sampled ions are stated in Sec Chemistry Technical Su on".	for Boric Acid for Boron. The tion 5.1 pf Procedure prveillance Performance
7.3.3	Steam Gener	rators	
7.3.3.1	At 250°F of below 25 pe $(N_2)$ to Ste	r when Steam Generator sig, request operation sam Generator of 2 to	steam pressure drops s initiate Nitrogen 5 psig.
7.3.3.2	If the Stea than 4 days adding chem -1001 Narro Section 4.6 Of The Stea	am Generators are to be coordinate with operation sicals and increasing to w Range indication in 3 of Procedure 35210- am Generators".	e in wet layup for more rations department in water levels to 50 accordance with -C, "Chemistry Control
7.3.3.3	If the Scear specificati 35210-C, the coordinated	m Generator parameters ons stated in Section en a series of fill en with Operations Depar	do not meet the 4.6 of Procedure nd draining evolutions tment may be required.
7.3.3.4	Wet layup al cooldown rat not be hung Steam G. era paramete	hould be postponed unt te would not be affect on the Auxiliary Feed ators are at layup lev are within specificati	il MODE 5, 140°F. When ed. Clearances should water system until the els are all chemical on.
7.3.3.5	Each drainir approximatel	ng and refilling evolu	tion takes

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		индин түрсөн болгоон алтаан салар алтаан алтаан алтаан ас ан	ac annual design and an annual second s
1.4	MODE 5		
7.4.1	Radiologic	cal Precautions	
7.4.1.1	Outage Ent accordance "Containme	with Section 4.3 of ent Entries".	nd & vre performed in Procedure 00303-C,
7.4.2	RHR		
7.2.2.1	Prior to e the RCS to cc/kg shou	ntering MODE 6 Operat: > 2000 ppm and RCS 1d be completed.	ions should be borsting degas to less than 5
7.4.2.2	The RCS/RHD should be of the CVCS he Demineralis cleanup rat	R Crud Burst should be drawn every 4 hours on est exchanger, and the ter. Co-58 activity s te determined.	e in progress and sample RHF, the outlets of CVCS Mixed Bed hould be plotted and
7.4.2.3	Purificatio RCS should coolant pum specificati 4.6.2.1 of	on flowrate should be remain pressurized wi op running until the p on for the outage is this procedure.	set at 120 gpm. The th at least one main rerequisite reached, see Section
7.4.3	Steam Gener	atora	
7.4.3.1	At 140°F, i not meet spo 35210-C, the evolutions w calculate the co bring the specification Procedure 35	f the Steam Generator ecifications of Section en a series of draining will be necessary. Ch he number of draining e Steam Generator chem on, see Section 4.11 U 5210-C.	chemical parameters do on 4.6 of Procedure and refilling memistry shall and refillings needed nical parameters within seful Formulas of
7.4.3.2	When Steam G chemicals ma generator re should be re 4.6.4.4 of P made as nece	Generator parameters a by be added for layup circulation pump. Th circulated in accorda rocedure 35210-C, and asary.	re in specification, using the steam e Steam Generators nce with Section chemical adjustments
1.4.4	Secondary		

		REVIEW	Statuch new other sectors and
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7.4.4.1	If chemics condensate Section 4. 4.6.1 for "Chemical System".	ils have not been added to system, they should be in 5.2.2 for long term wet la short term wet layup of Pr Control Of The Condensate	the feedwater and accordance with yup or Section ocedure 35220-C, And Feedwater
7.4.4.2	The feedwa with Section Section 4 35520-C.	ter heaters should be laye on 4.5.2.3 and sampled in 5.2.4 and Section 4.5.2.5	d up in accordance accordance with of Procedure
7.4.4.3	When layup Condensate short path	of feedwater heaters is co and Feedwater system shoul recirculation.	ompleted then the ld be placed in
7.4.4.4	Guidelines Heaters and outages and Atmosphere Plant Layup	for the layup and inspects Main Steam Reheaters duri periods when internals and are found in the <u>Plant Ext</u> Manual.	lon of Feedwater ing extended te open to the tended Life and
7.4.5	Perms Monit	ors	
7.4.5.1	Reset RE-00 mrem/hr.	02 and RE-0003 to the low	set point of 10
7.4.6	Turbine Plan	nt Cooling System	
	The Turbine system and the be secured of the layup and described in	Plant Cooling Tower, Circ Turbine Plant Cooling Water during refueling outages. nd inspection of these Plan h the Plant Extended Life	ulating Water r systems should Gu'delines for nt omponents are and Layup Manual.
7.4.7	Nuclear Serv	vice Cooling Water	and the second second second
	The Nuclear and system h inspected on layup and in described in Manual.	Service Cooling Water Syst test exchangers should be in the train at a time idea ispection of these ant co the Plant Externed Life a	tem Cooling Towers leclated and lin' for the mpt nts are and L. yup

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		NOTE	· · · · · · · · · · · · · · · · · · ·
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	when oper inse	a the In-core Detec ated or less that arted.	corupied tors are
7.4.8.1	Prior to openi Operations Dep 3.2.2 of Proce clearance shal Detector Drive	ng the containment artment shall comp dure 00303-C, Cont 1 be hung on the b motors so they ca	for outage work, lete Sections 3.2.1 and ainment Entries and a reaker for the In-core n not be operated.
7.4.8.2	Prior to openin outs; entries, radiological an sample and surv pads per HP pro of Procedure (0	ng the containment , Health Physics wind air quality stat vey data, radiation ocedures in accord 0303-C, "Containmen	for outage work, ill establish tus utilizing air n barriers and stepoff ance with Section 4.3 nt Entries".
7.5	MODE 6 (REFUELI	ING)	
7.5.1	A complete set parameters list Chemistry Cont within 24 hours reactor vessel.	of analyses for al ed in Section 3.6 rol During Refueli prior to moving f	of Procedure 35180-C, Ing", shall be current fuel elements in the
7.5.2	Refueling Pathw	ay	
7.5.2.1	When the Reactor fuel transfer,	r Cavity is floode obtain daily Boron	d, prior to and during samples of:
	RHR Train in set Reactor Cavity Refueling Canal Transfer Canal Spent Fuel Pool	rvice	
7.5.2.2	When the refueld flooded, obta per 24 hours	ing canal in the contribution that is the contribution analyses of the contribution of the contributication of the contribution of the contribution of the contributio	ontainment building is on the Plant Vent once
7.5.2.2	During a first r in the spent fue	refueling of a unit	, when spent fuel is

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VEGF 7.5.2.4 7.5.2.5 7.5.2.6 7.5.2.7 7.5.3	49006-C If both of neutron fl concentrat hours per Control Du Place the the cavity Purification pressure pur continuous) The reactor demineralis and again a Radiologica	the minim ux monitor ion of the Section 3. ring Refue standby min for refue on of the our urification by while the cavity shi ted continu- fter return of Precauti	um of 2 reasons inoperable reactor contractor of Process ling". and bad in ling. coolant vis noolant v	quired source range le, determine the bord colant system once per dure 35180-C, "Chemist service prior to fill the RHR loop and low be maintained cavity is flooded. be filtered and ing refueling operation	36 r 12 ry
7.5.2.4 7.5.2.5 7.5.2.6 7.5.2.7 7.5.3	If both of neutron fl concentrat hours per Control Du Place the the cavity Purification pressure pur continuous) The reactor demineralis and again a Radiologica	the minim ux monitor ion of the Section 3. ring Refue standby min for refue on of the our urification by while the cavity should continue of the return of t	um of 2 res s inoperabl reactor co 4 of Process ling". red bed in ling. coolant via a loop must reactor nould also nously during re to the R	quired source range le, determine the bord colant system once per dure 35180-C, "Chemist service prior to fill a the RHR loop and low t be maintained cavity is flooded. be filtered and ing refueling operation	ing
7.5.2.5 7.5.2.6 7.5.2.7 7.5.3	Place the the cavity Purification pressure pur continuous) The reactors demineraliss and again a Radiologica	standby min for refuel on of the curification by while the cavity should continu ofter return of Precauti	coolant via loop must ne reactor nould also nould also nously durg ro the R	service prior to fill the RHR loop and low be maintained cavity is flooded. be filtered and ing refueling operation	ing
7.5.2.6 7.5.2.7 7.5.3	Purification pressure pur continuous) The reactor demineraliss and again a Radiologica	on of the curification by while the cavity should continu offer returned Precauti	coolant via loop must ne reactor nould also nould also nouly duri r, to the R	the RHR loop and low be maintained cavity is flooded. be filtered and ing refueling operation	
7.5.2.7	The reactor demineralis and again a Radiologica	c cavity sh ted continu ifter return 1 Precauti	to the R	be filtered and	
7.5.3	Radiologica	1 Precauti		WST.	ņ.
			ons		
		N	OTE		
		ontainment hen the In perated or neerted.	cannot be -core Deter less thar	occupied ctors are fully	
	Prior to fla access shall the fuel tra Building and	ooding the 1 be establ ansfer tube d Containme	reactor en lished on t ballows i ant duildir	evity, locked or poste the concrete plugs for in the Fuel Handling	d
8.0 1	PLANT HEATUR	P/STARTUP			
8.1 8	PREREQUISITY	LS			
8.1.1 E	M plant sho boiler is st	uld be pla arted up.	ed in ser	vice when the Auxilia	ry
		MO	TE		
	Du th cl pr	ring recov e secondar eaned up f icr to pla	ery from o y system a or several nt startup	hould be days	
8.1.2 T	he secondar acirculatio	y plant sh	ould be in	long path	

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8.1.2.1	The At	stiters Both		and the second second second second	I
8.1.2.2	A cond	eneste num	er is in o	peratio	on.
	polish	ers are in o	peration.	running	and the condensat
8.1.2.3	Vacuum	is drawn on	the main	condens	
			NOTE		
		15 the O not avai must be 4.11.1 o	n-line ana lable, then obtained, p f Procedure	lyzers grab per Sec 35220	are samples tion -C.
8.1.2.4	The fol availab	llowing second	ndary on-li	ne anal	lyzers should be
	4. Co	ndenser Syst	em		
	1.	Condenses	Hotwells	(6) - 0	ation Conductivity
	2.	Condenser	Pump Disc	harge -	Cation Conductivity Specific Conductivity pH Dissolved Oxygen Silica Sodium
	b. Fee	dwater Syste	800		
	1.	Feedwater	Chemical C	Control	sample point
		Hydrazine Specific (	Conductivit	7	
	2.	Feedwater	Pump (A&B)	inlet	- Dissolved Oxygen
	3.	Feedwater Oxygen	Pump (A+8)	Discha	rge - Dissolved
		Oxygen			- 0.4 - NYSEOIAEG

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	4.	Feedwater t	o Steam Ge	nerator
		Specific Co Cation Cond Hydrazine pR Turbidity Sodium Dissolved O	uctivity wetivity	
8.1.2.5	When the leakage s the Amert	condenser va hould be ver ap syst a to	cuum is dra ified by he the circul	wh, no condenser tube lium leak checking via
8.1.3	PERMS Mon	itor		ereng esterboxes,
8.1.3.1	The follow MODES).	wing PERMS mo	onitors sho	uld be available (All
	RE-0018 RE-0021 RE-0020A RE-0020B RE-0848 RE-17646 RE-12116 RE-12117			
	RE-12442A RE-12442B RE-12442C FT-12442 FI-12442	OF RE-12444A OF RE-12444B OF RE-12444C OF FT-12444 OF FT-12444		
	When a rel	ease is in p	rogress via	this pathway:
	RE-12839A RE-12839B RE-12839C FT-12839C			
8.1.3.2	The followi	ing monitors	should be a	available (MODES 1-4).

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8.1.3.3	The folio 1-4) to c RE-002* RE-003 * RE-2565	Wing PERNS I hange modes	Monitors Mu during sta	st be available (MCDES rtup.
	RE-2562A RE-2562C * 2 out of (A and B) considered	f 3 of these or 2565C mu coperable.	monitors ; st be opera	oust be available, 2565 able for 2565 to be
8.1.3.4	The follow 1-3) to Ch	ing Perms M ange modes.	onitors mus	t be available (MODE
	RE-13119 RE-13121	RE-131 RE-131	20	
8.2	MODE 6 TO	MODE 5		
8.2.3	Reactor Co	olant System	n	
8.2.1.1	Reactor Con within spec "Chemistry	cification c Control Of	f Table 1 The Reactor	parameters must be of Procedure 35110-C, r Coolant System".
8.2.2	Borated Wat	er Sources		
8.2.2.1	When the wa RWST, the a recommend t be lined up	ter from th activity in to Operation to the spe	e reactor of the RWST mu s Department nt fuel poo	eavity is pumped to the ast be reduced, at that the RWST should a purification system.
0.2.2.2	The refueli storage tan specificati 30090-C, "C Cordinatio	ng water sta ke should be or are stat hemistry Tec n".	orage tank sampled f ted in Sect chnical Sur	and the boric acid or Boron. The ion 5.1 of Procedure veillance Performance
8.2.3	Radiologica	1 Controls		

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e an star Anne dan estan air	1006-C		0	28 of 36
8.2.3.2	When the l and posted Transfer i Containmer	Reactor Cavity d access on the tube bellows in at should be re	has been concrete the Fuel leased.	drained, the locked plugs for the Fuel Handling Building and
8.3	MODE 5 TO	MODE 4		
8.3.1	RCS/RHR			
8.3.1.1	Operations	may begin dil	uting boro	on to operating
8.3.1.2	The Reacto compliance control pr	r Coolant Syste with the coord ogram.	em should dinated li	be lithiated in thium and boron
		NOTE		
		While performin using Hydraziry CVCS letdown de should be bypas flow diverted t	g oxygen addition mineralize sed and le o the VCT.	scavenging s, the ers stdown
8.3.1.3	Prior to ex	ceeding 180°F:		
	Oxygen shou added to sc 35110-C.	ald be below 10 avenge the oxy	0 ppb or a gen, per 1	ufficient hydrazine Table 1 of Procedure
	Litium shou Lithium-Bor 35110-C.	ild be within 1: on Control proj	imits of t gram per T	the Coordinated able 1 of Procedure
8.3.1.4	PZR boron si 50 ppm.	hould not be di	lfferent f	rom RCS by more than
2 2 2				

- 8.3.2 Steam Generators
- 8.3.2.1 Steam Generator blowdown should be established. The following Steam Generator Blowdown monitors should be available:

Specific Conductivity Cation Conductivity pH Sodium

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		NEW DION	PAGE NO.
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	If the on samples s	-line monitors are not ave hould be obtained.	ailable, then grab
8.3.2.2	If it is to the en Implement effluent Dose Calc Control"	desired to route the Steam virons, refer to Procedure ation And Control" for nor requirements and Procedure ulations Manual (ODCM) Imp for radiological effluent	Generator blowdown 36001-C, "NPDES 1-radiological 36010-C, "Offsite Diementation And requirements.
8.3.2.3	Steam Gen In accord "Chemistr	erators should be drained ance with Section 4.7.1 of y Control Of Steam Generat	to operating levels. Procedure 35210-C, or Chemistry".
		NOTE	
		If Steam Generators do no specifications for commen heatup of Section 4.7.1, drain and refill to attai specification that will b required.	t meet cing then n those
8.3.2.4	Prior to a parameters "Chemistry within spe specificat perform co within spe snecificat chemistry	exceeding 200°F on heatup s of Section 4.7.1 of Froc y Control Of Steam Generat scification. If parameter tion, request operations h prrective action to return scification. If parameter tion notify operations that is satisfactory for opera	the chemical edure 35210-C, ors" should be s exceed old temperature and the parameter to s are within t steam generator tions above 200°F.
8.3.2.4	Steam Gene shift whil	rator samples should be of te in Heatup/ Hot Standby.	btained once per
8.3.3	Secondary		
8.3.3.1	Steam Gene	rator Blowdown Processing	System
		NOTE	
		The Steam Generator Blowdo Demineralizers can be bypa during startups and shutdo	own assed owns.

		REVIEWSE	NY CONTRACTOR OF A	AD IN COLUMN TWO IS NOT THE OWNER.	
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	a. The Chem Proc Gene	Steam Gene ical parame edure 3522: rato: Blow	rator Blo eters are 5-C, "Che down Proc	wdown D stated micsl C sseing	emineralizer in Section 3.5 of ontrol Of The Steam System".
	b. Stea On-1 Demin follo	m Generator ine analyze heralizer a owing param	r Blowdown er at the and should meters ar	outlet be available contin	of each mixed bed silable. The nucusly analyzed.
	1.	Cation Cor	ductivity	,	
	2.	Specific (	Conductiv	lty	
	If the mor should be 3.6.4 of 1	obtained i Procedure 3	not avail n accorda	able, t	then grab samples the Section 3.6.3 and
8.3.3.2	Secondary with Sections system of Condensate	system cle on 4.7.3, Procedure And Feedw	snup is c Secondary 35220-C, ater Syst	Chemis Chemis ems".	d in accordance up of the secondary try Control Of The
	a. The spath a comppb.	econdary p recirc wit denser vac	lant shou h one con uum until	id be o densate Fe < 10	perating in long pump running, with 0 ppb and 02 < 100
	b. The c with withi the H conde with Proce Conde conde analy	ondensate ecodex fil n specific ydrogen fo nsate poli Section 4. dure 35320 nsate Poli nsate poli zers should	polishers ter mediu ation the rm resin. shers are 6 Operati -C, "Chem shing Sys sher, the d be avai	are pl m, when ecodex Chemi mainta ng Chem ical Co tem". W follow lable:	aced in service Iron (Fe') is is replaced with stry control of the ined in accordance istry Control of ntrol Of The hen operating the ing On-line
		1	NOTE		
		If On-line available, should be 4.7.3 and	analyzer then gra analyzed .7.4 of	is not sample per Sector Procedus	es tion

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	1.	Ind	dividual Polisher Be	d Effluent,
		а.	Cation Conductivi	ty
		ь.	Sodium	
	2.	Com	bined Polisher Efflu	ient:
		8.	Cation Conductivit	y
		b.	Specific Conductiv	ity
		с.	рН	
		d.	Turbidity	
		۰.	Sodium	
		£.	Silica	
	are enalys	ed o	n the Condensate and	00°F, Chemical Samples
8.3.4	Radiologic	al P	notified that the Ch or operation above 2 recautions	nemical parameters are 200°F.
8.3.4	Radiologic	al P	notified that the Ch or operation above 2 recautions NOTE	nemical parameters are 200°F.
8.3.4	Radiologic	Conta when inser	notified that the Ch or operation above 2 recautions NOTE ainment cannot be oc the In-core Detecto ated or less than fu rted.	cupied rs are lly
8.3.4	Prior to Mo on the breas so they can	Conta when opera inser ode 4 akers	notified that the Ch or operation above 2 recautions NOTE ainment cannot be oc the In-core Detecto ated or less than fu rted. , oporations may re for the In-core Det be operated.	cupied rs are lly lease the clearance tector drive motors
8.3.4 8.3.4.1 8.3.5	Prior to Ma on the brea so they can PERMS	Conta when opera inser ode 4 akers	notified that the Ch or operation above 2 recautions NOTE ainment cannot be oc the In-core Detecto ated or less than fu rted. , operations may re for the In-core De be operated.	cupied rs are lly lease the clearance tector drive motors
8.3.4 8.3.4.1 8.3.5 8.3.5.1	Prior to Ma on the breas so they can PERMS The followi 250°F.	Conta when operating inser ode 4 akers anot	notified that the Ch or operation above 2 recautions NOTE ainment cannot be oc the In-core Detecto ated or less than fu rted. , oporations may re for the In-core Det be operated.	cupied rs are lly lease the clearance tector drive motors

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8.4	MODE 4 TO MOI	DE 3	a management from the second		
8.4.1	RCS/RHR				
8.4.1.1	Prior to exce RCS and PZR f than 100 pp	eding 250°F, Chemis for dissolved oxygen	stry shall sample the h, which must be less		
8.4.1.2	When P2R heat reached, plac service.	up begins and satur e the PZR steam spa	ation temperature is the sample line in		
8.4.1.3	Between 300°F down.	and 330°F RHR is i	solated and cooled		
8.4.2	Steam Generato	ora			
8.4.2.1	When the steam generator pressure reaches 25 psig. isolate the nitrogen to the steam generators				
8.4.2.2	The following	Main Steam monitor	s should be eveilable.		
	Cation Conduct	ivity	THE DE EVELLEDIE!		
	Sodium Process	Monitor			
	If the on-line samples should	monitors are not a be obtained.	vailable, then grab		
8.4.3	Secondary Syst	em			
8.4.3.1	Place the CST dissolved oxyg be within spect Procedure 35250 Storage Tank",	in operation, Chemi en. The CST chemic ifications started C-C, "Chemistry Con	stry should sample for al parameters should in Section 4.5 of trol Of The Condensate		
8.4.3.2	Above 340°F the Auxiliary Feedwater pumps will be placed in automatic.				
8.4.3.3	Heatup rate will steam reliefs o	ll be maintained usi or steam dumps.	ing the atmospheric		
8.4.4	Borated Water S	DUPDER			

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<ul> <li>8.4.4.1 At 433'Y and 925 paig in the RCS, operations will fill accumulators ample for Boron, specifications are started in Section 3.5 of Procedure 35160-C, "Chemical Control Of The Accumulators".</li> <li>8.4.5 Radiological Controls</li> <li>8.4.5.1 Re-establish flow through RE-48000 prior to exceeding 350'F.</li> <li>8.4.6 PERMS</li> <li>8.4.6.1 The following monitors must be available prior to MODE 3.</li> <li>RE-13110 RE-13122</li> <li>8.5 MODE 3 TO MODE 2</li> <li>Chemistry Department reports that the following system chemical parameters are within specification and satisfac_ory for power ascent:</li> <li>Steam Generators Rystem Condensate Mystem</li> <li>8.5.1.1 Resource Colant System</li> <li>8.5.1.1 Resource Colant System</li> <li>8.5.1.1 Resource Colant System</li> <li>8.5.1.1 Resource Colant System</li> <li>8.5.1.2 Corrective actions of Table 3 of Procedure 35110-C, "Chemical Control Of The Resource Colant System</li> <li>8.5.1.2 Corrective actions should be taken if any parameters listed in Table 4 of Procedure 35110-C are not within the recommendad guidelines. Rydrogen cover gas should be place on the volume control tank. Chemistry to obtain concentration within recommended guidelines.</li> <li>8.5.2 Steam Generators</li> </ul>	8.4.4.1	At 435'F a		the strength of the strength of the state of		33 01	36
<ul> <li>8.4.5 Radiological Controls</li> <li>8.4.5.1 Re-establish flow through RE-48000 prior to exceeding 350°F.</li> <li>8.4.6 PERMS</li> <li>8.4.6.1 The following monitors must be available prior to MODE 3', RE-13119 RE-13120 RE-13122</li> <li>8.5 MODE 3 TO MODE 2 Chemistry Department reports that the following system chemical parameters are within specification and satisfac.ory for power ascent: Steam Generators Resctor Coolant System</li> <li>8.5.1 Reactor Coolant System</li> <li>8.5.1.1 Reactor Coolant System</li> <li>8.5.1.1 Reactor Coolant System</li> <li>8.5.1.2 Corrective actions should be taken if any parameters its action of Table 3 of Procedure 35110-C, "Chemical Control Of The Reactor Coolant System".</li> <li>8.5.1.2 Corrective actions should be taken if any parameters its is a should be place on the volume control tank. Chemistry augustion the recommended guidelines. Rydrogen cover gas should be place on the volume control tank. Chemistry augustion concentration within recommended guidelines.</li> <li>8.5.2 Steam Generators</li> </ul>		Chemistry started in Control Of	nd 925 psig in rs and gas pro must sample for Section 3.5 of The Accumulat	n the RCS ssure is or Boron, of Proced	, operations adjusted aft specificatio ure 35160-C,	will f ter fil ns sre "Chemi	111 1. cal
<ul> <li>8.4.5.1 Re-establish flow through RE-48000 prior to exceeding 350°F.</li> <li>8.4.6 PERMS</li> <li>8.4.6.1 The following monitors must be available prior to MODE 3. RE-13120 RE-13121 RE-13122</li> <li>8.5 MODE 3 TO MODE 2</li> <li>Chemistry Department reports that the following system chemical parameters are within specification and satisfac-ory for power ascent: Steam Generators Resctor Coolant System Condensate and FedWater System</li> <li>8.5.1.1 Reactor Coolant System Coolant System</li> <li>8.5.1.1 Reactor Coolant System Coeling System".</li> <li>8.5.1.2 Corrective actions should be taken if any parameters interes interes and the sector Coolant System 2.5.1.2 Corrective actions should be taken if any parameters interes interes interes and the difference on the volume control tank. Chemistry augurintendent shall make recommended guidelines.</li> <li>8.5.2 Steam Generators</li> </ul>	8.4.5	Radiologic	al Controls	경험을 통			
<ul> <li>8.4.6 FERMS</li> <li>8.4.6.1 The following monitors must be available prior to MODE 3: RE-13119 RE-13120 RE-13121 RE-13122</li> <li>8.5 MODE 3 TO MODE 2</li> <li>Chemistry Department reports that the following system chemical parameters are within specification and satisfac.ory for power ascent: Steam Generators Reactor Coolant System Condensate and Feedwater System</li> <li>8.5.1 Reactor Coolant System</li> <li>8.5.1.1 Reactor Coolant System chemical parameters must be within specifications of Table 3 of Procedure 35110-C. "Chemical Control Of The Reactor Coolant System".</li> <li>8.5.1.2 Corrective actions should be taken if any parameters listed in Table 4 of Procedure 35110-C are not within the recommended guidelines. Rydrogen cover gas should be place on the volume control tank. Chemistry superintendent shall make recommended guidelines.</li> <li>8.5.2 Steam Generators</li> </ul>	8.4.5.1	Re-establin 350°F.	sh flow throug	h RE-4800	00 prior to e	xceedi	ng
<ul> <li>8.4.6.1 The following monitors must be available prior to MODE 3: RE-13120 RE-13121 RE-13122</li> <li>8.5 MODE 3 TO MODE 2</li> <li>Chemistry Department reports that the following system chemical parameters are within specification and satisfac.ory for power ascent: Steam Generators Reactor Coolant System Condensate and Feedwater System</li> <li>8.5.1 Reactor Coolant System</li> <li>8.5.1.1 Reactor Coolant System</li> <li>8.5.1.1 Reactor Coolant System</li> <li>8.5.1.2 Corrective actions of Table 3 of Procedure 35110-C. "Chemical Control Of The Reactor Coolant System".</li> <li>8.5.1.2 Corrective actions should be taken if any parameters listed in Table 4 of Procedure 35110-C are not within the recommended guidelines. Rydrogen cover gas should be place on the volume control tank. Chemistry superintendent shall make recommendations as necessary to obtain concentration within recommended guidelines.</li> <li>8.5.2 Steam Generators</li> </ul>	8.4.6	PERMS					
<ul> <li>RE-13119 RE-13121 RE-13122</li> <li>8.5 MODE 3 TO MODE 2 Chemistry Department reports that the following system chemical parameters are within specification and setisfac.ory for power ascent: Steam Generators Reactor Coolant System Condensate and Feedwater System</li> <li>8.5.1 Reactor Coolant System Condensate and Feedwater System</li> <li>8.5.1.1 Reactor Coolant System chemical parameters must be within specifications of Table 3 of Procedure 35110-C, "Chemical Control Of The Reactor Coolant System".</li> <li>8.5.1.2 Corrective actions should be taken if any parameters listed in Table 4 of Procedure 35110-C are not within the recommended guidelines. Hydrogen cover gas should be place on the volume control tank. Chemistry superintendent shall make recommendations as necessary to obtain concentration within recommended guidelines.</li> <li>8.5.2 Steam Generators</li> </ul>	8.4.6.1	The follows	ing monitors m	ust be av	ailable prio	r to MC	DDE
<ul> <li>8.5 MODE 3 TO MODE 2</li> <li>Chemistry Department reports that the following system chemical parameters are within specification and satisfac.ory for power ascent:</li> <li>Steam Generators Reactor Coolant System Condensate and Feedwater System</li> <li>8.5.1 Reactor Coolant System</li> <li>8.5.1.1 Reactor Coolant System chemical parameters must be within specifications of Table 3 of Procedure 35110-C. "Chemical Control Of The Reactor Coolant System".</li> <li>8.5.1.2 Corrective actions should be taken if any parameters listed in Table 4 of Procedure 35110-C are not within the recommended guidelines. Rydrogen cover gas should be place on the volume control tank. Chemistry superintendent shall make recommended guidelines.</li> <li>8.5.2 Steam Generators</li> </ul>		RE-13119 RE-13120 RE-13121 RE-13122					
Chemistry Department reports that the following system chemical parameters are within specification and satisfac.ory for power ascent: Steam Generators Reactor Coolant System Condensate and Feedwater System 8.5.1 Reactor Coolant System 8.5.1.1 Reactor Coolant System chemical parameters must be within specifications of Table 3 of Procedure 35110-C, "Chemical Control Of The Reactor Coolant System". 8.5.1.2 Corrective actions should be taken if any parameters listed in Table 4 of Procedure 35110-C are not within the recommended guidelines. Hydrogen cover gas should be place on the volume control tank. Chemistry superintendent shall make recommended guidelines. 8.5.2 Steam Generators	8.5	MODE 3 TO M	ODE 2				
<ul> <li>Steam Generators Reactor Coolant System Condensate and Feedwater System</li> <li>8.5.1 Reactor Coolant System</li> <li>8.5.1.1 Reactor Coolant System chemical parameters must be within specifications of Table 3 of Procedure 35110-C, "Chemical Control Of The Reactor Coolant System".</li> <li>8.5.1.2 Corrective actions should be taken if any parameters listed in Table 4 of Procedure 35110-C are not within the recommended guidelines. Rydrogen cover gas should be place on the volume control tank. Chemistry superintendent shall make recommendations as necessary to obtain concentration within recommended guidelines.</li> <li>8.5.2 Steam Generators</li> </ul>		Chemistry D chemical par setisfac.or	epartment reported and the second sec	orts that within spincent:	the followin acification a	ind syst	em
<ul> <li>8.5.1 Reactor Coolant System</li> <li>8.5.1.1 Reactor Coolant System chemical parameters must be within specifications of Table 3 of Procedure 35110-C. "Chemical Control Of The Reactor Coolant System".</li> <li>8.5.1.2 Corrective actions should be taken if any parameters listed in Table 4 of Procedure 35110-C are not within the recommended guidelines. Rydrogen cover gas should be place on the volume control tank. Chemistry superintendent shall make recommended guidelines.</li> <li>8.5.2 Steam Generators</li> </ul>		Steam Genera Reactor Cool Condensate	ators Lant System and Feedwater	System			
<ul> <li>8.5.1.1 Reactor Coolant System chemical parameters must be within specifications of Table 3 of Procedure 35110-C. "Chemical Control Of The Reactor Coolant System".</li> <li>8.5.1.2 Corrective actions should be taken if any parameters listed in Table 4 of Procedure 35110-C are not within the recommended guidelines. Hydrogen cover gas should be place on the volume control tank. Chemistry superintendent shall make recommended guidelines.</li> <li>8.5.2 Steam Generators</li> </ul>	8.5.1	Reactor Cool	lant System				
<ul> <li>8.5.1.2 Corrective actions should be taken if any parameters listed in Table 4 of Procedure 35110-C are not within the recommended guidelines. Hydrogen cover gas should be place on the volume control tank. Chemistry superintendent shall make recommendations as necessary to obtain concentration within recommended guidelines.</li> <li>8.5.2 Steam Generators</li> </ul>	8.5.1.1	Reactor Cool within speci "Chemical Co	ant System ch fications of introl Of The	emical pa Table 3 c Reactor C	f Procedure colant System	t be 35110-0	c.
8.5.2 Steam Generators	8.5.1.2	Corrective a listed in Ta the recommen be place on superintende to obtain co	ctions should ble 4 of Proc ded guideline the volume con nt shall make ncentration with	be taken edure 351 e. Hydro ntrol tan recommen ithin rec	if any param 10-C are not gen cover gan k. Chemistry dations as no ommended suit	within s shoul cessar	ld
	8.5.2 \$	team Genora	tors		Entre Entre		

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		NOTE			
		On Startup, the power specifications should in prior to exceeding 301 this allows action leve values in Unit Startup power.	operation be met power, al 1 to 301		
8.5.2.1	Power oper listed in	ation chemical paramete Section 4.8 of Procedur	r specifications are		
8.5.3	Secondary :	System			
8.5.3.1	Chemical pr greater the Ops - Conde Feedwater S Control Of	arameters for the secon an 51 power, are listed ensate System and in Se System of Procedure 352 Condensate And Feedwat	dary systems, for in Section 4.8, Power ction 4.9, Power Ops- 20-C, "Chemical ar System"		
8.6	MODE 2 TO M	ODE 1	··· ······		
8.6.1	Reactor Coo	lant System			
	If there is thermal pow Data Sheet Reactor Cool	greater than a 151/Hr er, the reactor is star 5 of 35110-C, "Chemical lant System", must be c	reduction in reactor ted up or shutdown. Control Of The		
8.6.2	Steam Gener	ators	ompacted.		
8.3.2.1	The specific 35210-C, sho The power op be met prior	cations of Sections 4.7 ould be met prior to ex perating specifications t to exceeding 30% power	.4 of Procedure ceeding 51 power. Section 4.8 should		
.6.2.2	Obtain and a once per shi with Section	Inalyse Steam Generator If while ramping up in 4.7.4.2 of Procedure	samples a minimum of power in accordance		
.6.3	Secondary				
.6.3.1	At 41 power. transferred	a MFP is started, Stea form Auxiliary Feedwate	m generators re r to Main Fer hater		

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8.6.3.2	At 20% p plant po directed	ower, a Heater Drain Pur wer RAMP up to full power back to the condenser.	mp is started. During er, heater drains are	
	a. Pri dra par Gen par gre Heat Prod	or to Operations departm in pumps, samples to ver ameter of the system sho erator Chemistry monitor ameters from the Heater ater than 5%, are listed ter Drain Pump Discharge redure 35220-C, "Chemica Feedwater System"	ment starting the heater rify the chemical buld be taken and Steam red closely. Chemical Drain System, for 1 in Section 4.10, - Power Operations, of 1 Control Of Condensate	
	b. Heat chen the Heat moni eith	er Drain system has no bical contamination prio Steam Generators and mu er Drain Pump Discharge tors are utilized for i ter be available or grab	treatment to remove or to introduction to st be monitored. Cation Conductivity ndication and must sampled must be taken	
	c. The serv	following On-Line analy	zers should be in	
	Reat	er drain pump discharge	(A and B)	
	Cati Sodi	on Conductivity		
8.6.3.3	Above 301 generator specifica placed in shift che	power, at steady state chemistry parameters as tion; the condensate point the ammonia form, at the mistry foreman.	power, and when steam re within lisher resin can be he discretion of the on	
9.0	REFERENCE	5		
9.1	PROCEDURES			
9.1.1	00303-1, "Containment Entries"			
9.1.2	01000-1,	01000-1, "Management Of Outages"		
0 1 0	12000-1.	"Refueling Recovery (M	100 C	

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9.1.4	12001-1,	"Unit Heating To Hot :	Shutdown (MODE 5 To MODE
9.1.5	12002-1,	"Unit Heatup To Normal And Pressure (MODE 4	1 Operating Temperature To MODE 5)"
9.1.6	12003-1,	"Reactor Startup (MODE	3 To MODE 2)"
9.1.7	12004-1,	"Power Operation (MODE	3 1)"
9.1.8	12005-1,	"Reactor Shutdown To H MODE 3)"	lot Standby (MODE 2 To
9.1.9	12006-1,	"Unit Cooldown To Cold MODE 4)"	Shutdown (MODE 3 To
9.1.10	12007-1,	"Refueling Entry (MODE	5 TO MODE 61"
9.1.11	30090-C,	"Chemistry Technical S Coordination"	urveillance Performance
9.1.12	35110-C,	"Chemistry Control Of	The Reactor Coolent"
9.1.13	35120-C,	"Chemistry Control Of	The Spent Fuel Poul"
9.1.14	35130-C,	"Chemistry Control Of Storage Tank"	The Refueling Water
9.1.15	35180-C,	"Chemistry Control Duri	ing Refueling"
9.1.16	35210-C,	"Chemistry Control Of s	Steam Generators"
9.1.17	35220-C,	"Chemistry Control Of 7 Feedwater Systems"	The Condensate And
9.1.18	35535-C,	"Operation Of The Conde Injection System"	ensate Chemical
9.1.19	01030-C,	"Health Physics And Che Outage Activities"	mistry Department

END OF PROCEDURE TEXT

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