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Rev. 2

Effective Date 10/22/99

CHEMISTRY SAMPLING PROCEDURE

CH-632B

EMERGENCY PLAN IMPLEMENTING PROCEDURE

FLORIDA POWER CORPORATION

CRYSTAL RIVER UNIT 3

POST ACCIDENT SAMPLING AND ANALYSIS OF REACTOR COOLANT WHEN ON THE "A" DECAY HEAT SYSTEM

APPROVED BY: Procedure Owner

(SIGNATURE ON FILE)

10/22/99 DATE:

PROCEDURE OWNER: Chemrad Specialist II

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1.0 PURPOSE

This procedure provides instructions for sampling the "A" Decay Heat Train under accident conditions for Gamma Isotopic and Boron analyses using the Post Accident Sampling System.

2.0 REFERENCES

2.1 DEVELOPMENTAL REFERENCES

- 2.1.1 APEX Technologies Post Accident Sample System Modules Manual, FPC Manual #2034
- 2.1.2 EOP-14, Enclosure 2, PPO Post Event Actions
- 2.1.3 FD-302-700, Post Accident Sampling System
- 2.1.4 Nuclear Regulatory Commission RTM-96, Response Technical Manual
- 2.1.5 NUREG 0737, Post-TMI Requirements
- 2.1.6 PASS users Manual, Volumes A through C, Crystal River Installation
- 2.1.7 Radiological Emergency Response Plan
- 2.1.8 Regulatory Guide 1.97, Instrumentation For Light-water Cooled Nuclear Power Plants to Assess Plant and Environs Conditions During and Following an Accident
- 2.1.9 RSP-600, ALARA Program
- 2.1.10 6059-S-002, APEX Technologies PASS Process Flow Diagrams

2.3 <u>CMIS REFERENCES</u>

DPDP-5A BREAKER 27, DPDP-5B BREAKER 8, CACP-1, CAV-126, CAV-1, CAV-3, CAV-431, CAV-432, CAV-429, CAV-430, CAV-626, CAV-627, CAV-484, CAV-439, CAV-636, CAV-519, CAV-447, CAV-437, CAV-448, CAV-623, CAV-625, CAP-10, CAP-14, CAV-436, CAV-434, CAV-441, CAV-440, CAV-624, CA-74-FI, CA-56-CI, CASB-5, AHF-55, CAV-492, CAV-493, CAV-445, CAV-446, CAV-471, DWV-337, CAP-8, CAT-8.

3.0 PERSONNEL INDOCTRINATION

3.1 DESCRIPTION

NOTE: The PASS is powered by the B ES Bus through ACDP-59.

The Post Accident Sampling System (PASS) is an on-line system designed to sample and evaluate various liquid and gaseous sample streams during an accident, including the "A" Decay Heat train. The liquid PASS Automated Isotopic And Chemical Measurement System (AIMS) consists of the subassembly used to perform Gamma Isotopic and Boron analyses of the "A" Decay Heat train.

3.2 LIMITS & PRECAUTIONS

- 3.2.1 Performance of all or part of this procedure will be done by direction of the Emergency Coordinator or designee.
- 3.2.2 Entries into the controlled access areas must have Radiation Monitoring Team preplanning, concurrence, and coverage as outlined in EM-104, Operation of the Operational Support Center. Controlled access areas will be defined by the Radiation Monitoring Team personnel.
- 3.2.3 During post-accident sampling, extremely high radiation exposure levels could be experienced. The ability to perform this procedure and stay within exposure limits will require ALARA pre-planning.
- 3.2.4 Return to the Lab if the dose rate at places requiring work is determined by the Health Physics Technician to be in excess of the limits specified in the pre-job briefing.
- 3.2.5 All sampling actions are performed on the Main Control Board by Operations, or in the Count Room either on the VAX Computer or from PASS CACP-1 and Nuclear Data Mimic Panels unless otherwise noted.
- 3.2.6 Section 4.1 must be completed prior to any sample team re-entry.
 - 3.2.7 Sections 4.3, Gamma Isotopic Analysis and section 4.4, Boron Analysis, can be performed simultaneously.

4.0 INSTRUCTIONS

NOTE: Section 4.1 must be completed prior to any sample team re-entries.

4.1 <u>SAMPLE TEAM CHECKLIST</u>

	ACTIONS	DETAILS
4.1.1	.1.1 ASSEMBLE Sample Team and REVIEW applicable procedures.	 REVIEW the following procedures: CH-632B, Post Accident Sampling and Analysis of the Reactor Coolant System When On the "A" Decay Heat Train
		EM-104, Operation of the Operation Support Center 2. LIST personnel performing entry
		and their dose margins:
		<u>Name</u> <u>Dose Margin</u>
		1
		2
		3
		4
		5
		/ Initial/Date
4.1.2	DETERMINE analyses to be performed.	LIST analyses to be performed:

Initial/Date

4.1 <u>SAMPLE TEAM CHECKLIST</u> (Continued)

	ACTIONS	DETAILS
4.1.3	DISCUSS supplies for obtaining a sample utilizing CASB-2.	IF obtaining CASB-2 grab sample, THEN ENSURE the following: Allen wrench, or equivalent as determined by Chemistry supervision, for removing T-Handle from grab sampler and attaching to new grab sampler Knife, or equivalent as
		cover strap from lifting eye New tie-wrap, or equivalent as determined by Chemistry supervision, to attach transit cover to new grab sampler lifting eye
		/ Initial/Date

- 4.1.4 ALIGN electrical power supplies
- VERIFY operations has performed EOP-14, Enclosure 2, PPO Post Event Actions

YES _____ NO ____

<u>IF</u> EOP-14, Enclosure 2 was not performed, <u>THEN</u> NOTIFY Operations ENSURE CLOSED the following breakers: _____ DPDP-5A Brk. No. 27.

____ DPDP-5B Brk. No. 8.

4.2 <u>SAMPLE LINE-UP</u>

	ACTIONS	DETAILS
4.2.1	PERFORM valve lineup to sample "A" Decay Heat train.	ENSURE CLOSED the following valves: 1 CAV-126 2 CAV-1 3 CAV-3 4 CAV-431 5 CAV-432 6 CAV-429 7 CAV-430 8 CAV-626 9 CAV-626 9 CAV-627 10 CAV-484 11 CAV-439 12 CAV-636
		ENSURE OPEN the following:
		13. CAV-519 14. CAV-447 15. CAV-437 16. CAV-448
		ENSURE the following:
		17. CAV-623 to SAMPLE 18. CAV-625 to SAMPLE 19. CAV-626 to DRAIN TANK 20. CAP-10 to AUTO 21. CAP-10 Flow Control Switch to FULL CLOCKWISE 22. CAP-14 to ON
		/ Initial/Dat
4.2.2	NOTIFY operations to OPEN Containment Isolation Valves	NOTIFY Operations OPEN the following:
	Valves	1 CAV. 426

-

-

1. ____ CAV-436 2. ___ CAV-434

4.2 <u>SAMPLE LINE-UP</u> (Continued)

ACTIONS	
ACTIONS	DETAILS

NOTE: Refer to section 5.0 if a HI-HI alarm occurs at CAT-8.

4.2.3	PERFORM valve lineup to
	sample "A" Decay Heat
	train.

OPEN t	he following:
1	CAV-441
2	CAV-440

- NOTE: Adjusting CAV-624 valve control knob towards OPEN or CLOSED position will vary flow and pressure accordingly.
- 3.____ THROTTLE CAV-624 to obtain flow rate between 0.35-0.50 gpm on CA-74-FI.

4.3 GAMMA ISOTOPIC ANALYSIS

	ACTIONS	DETAILS
4.3.1	FLUSH Sample lines	<pre>1 ENSURE Section 4.2 SAMPLE LINE-UP performed.</pre>
		NOTE: While sample is flushing continue with step 4.3.2.
		 FLUSH for at least 5 minutes.
		/ Initial/Date
4.3.2	PERFORM pre-analysis PASS detector checks.	 VERIFY greater than 50 pounds of liquid nitrogen at PASS liquid nitrogen monitor.

		CAUTION: Do not reset liquid nitrogen monitor until high voltage bias has been lowered to zero.

		2 ENSURE high voltage applied to the PASS detector at value specified in PASS AND RANGE AIMS equipment logbook.
		3 ENSURE weekly calibration check has been performed within the past 7 days per CH-234 as indicated on weekly count room QC logsheet in Count Room Task logbook.
		/ Initial/Date

4.3 <u>GAMMA ISOTOPIC ANALYSIS</u> (Continued)

	ACTIONS	DETAILS
4.3.3	PERFORM Gamma Isotopic Analysis	 LOG ON the VAX computer as Username: PASS SELECT PASS MENU. ENTER NO to the prompt DO YOU WANT A SPECTRAL DISPLAY WINDOW? (Default). SELECT LIQUID SAMPLING.
		5 SELECT A DECAY HEAT TRAIN. 6. <u>EITHER</u> : a ENTER Q to quit MUX display and continue with procedure, b <u>OR</u> RETURN to update MUX values.
		 7 ENTER NO to abort sample (Default value). 8 UPDATE sample parameters. 9 SELECT ACCEPT. 10 SELECT QUIT key to exit. 11 ENTER LO to log off VAX computer.
		 12 ATTACH gamma scan to this procedure. 13 NOTIFY OSC Chemistry Coordinator or his designee of results.
		Gamma Scan ID number: /_/ Initial/Date/Time
		Gamma Scan ID number: /_/ Initial/Date/Time
		Gamma Scan ID number: / Initial/Date/Time
		14. <u> </u>
		through 13. 15. <u> </u>
		/ Initial/Date

4.3 GAMMA ISOTOPIC ANALYSIS (Continued)

	ACTIONS		DETAILS
4.3.4	PERFORM Core Damage Assessment	1	OSC Chemistry Coordinator PERFORM Core damage assessment per Enclosure 2.

4.4 BORON ANALYSIS

	ACTIONS		DETAILS
4.4.1	PERFORM Boron	analysis	 ENSURE Section 4.2 SAMPLE LINE-UP performed. FLUSH sample through the Boronometer for at least one hour.
			flush start time
			NOTE: The Boron concentration of the sample will be displayed at the readout (CA-56-CI) located on PASS Analyzer Panel (CACP-1) in countroom.
			Boron PPM
			3 NOTIFY OSC Chemistry Coordinator or his designee of results.
			/_/ Initial/Date/Time
			4. <u>IF</u> all analyses are complete, <u>THEN</u> PERFORM Demineralized Water Flush per Section 4.6.
			/ Initial/Date

4.5 GRAB SAMPLE COLLECTION AT CASB-5

	ACTIONS	DETAILS
	NOTE: Spare grab sample bo FIMIS # 1400513	ombs are stored in the Oil Tank warehouse
4.5.1	PREPARE CASB-5 (Grab Sampler) Sample Station for Sample collection.	NOTE: CASB-5 exhaust fan (AHF-55) switch is located to the right of the Intermediate Building door (across from RM-A7).
		START CASB-5 exhaust fan (AHF-55).
		/ Initial/Date
4.5.2	PERFORM Valve Alignment	 ENSURE Section 4.2 SAMPLE LINE-UP performed. OPEN CAV-445. OPEN CAV-446. CLOSE CAV-447. FLUSH for at least 15 minutes.
		Initial/Date
4.5.3	ISOLATE Grab sample.	NOTE: The T-handle operator for CAV-492 and CAV-493 is attached to CASB-5.
		 CLOSE CAV-492 using T-handle CLOSE CAV-493 using T-handle
		/ Initial/Date
4.5.4	ISOLATE CASB-5	1 OPEN CAV-447 2 CLOSE CAV-445 3 CLOSE CAV-446
		/ Initial/Date

	ACTIONS	DETAILS
4.5.5	CLOSE Sample Isolation Valves.	1 CLOSE CAV-441 2 CLOSE CAV-440
		/ Initial/Date
	NOTE: Refer to Section 5.0	if a HI-HI alarm occurs at CAT-8.
4.5.6	ESTABLISH Demineralized Water Flush	1 CLOSE CAV-624 2 OPEN DWV-337 3 OPEN CAV-471 4 START CAP-8
		NOTE: Adjusting CAV-624 valve control knob towards OPEN or CLOSED position will vary flow and pressure accordingly.
		5 THROTTLE CAV-624 to obtain a flow rate between 0.35-0.50 gpm on CA-74-FI.
		NOTE: While sample is flushing, you may continue with step 4.5.7.
		6 FLUSH for at least 10 minutes.

	ACTIONS	DETAILS
4.5.7	A.I.M.S. Flushing Pre-Requisites	 VERIFY greater than 50 pounds of liquid nitrogen at PASS liquid nitrogen monitor.
		2 ENSURE high voltage applied to the PASS detector at value specified in PASS and RANGE AIMS Equipment logbook.

		CAUTION: Do not reset liquid nitrogen monitor until high voltage bias has been lowered to zero.

		3 ENSURE weekly calibration check performed within past seven days per CH-234 as indicated on weekly Count Room QC logsheet in Count Room Task Logbook.
		/ Initial/Date
4.5.8	PERFORM A.I.M.S. Flush	 LOG ON the VAX computer as Username: PASS SELECT PASS MENU. ENTER NO to DO YOU WANT A SPECTRAL DISPLAY WINDOW? (Default) SELECT FLUSH SAMPLE LINES. SELECT SUMP DEMIN FLUSH. MAXIMIZE MCA Display 1 and toggle through ADC's until RCS CONFIGURATION shown. SELECT the ERASE function on MCA Display to re- acquire spectrum. When a low stable count rate is indicated MINIMIZE MCA Display 1
		MCA Display 1. 9 SELECT RETURN. 10 DEPRESS PF4 to QUIT. 11 ENTER LO to log off.

	ACTIONS	DETAILS		
4.5.9	FLUSH CASB-5 (Grab Sampler)	1 OPEN CAV-445 2 OPEN CAV-446 3 CLOSE CAV-447 4 FLUSH for at least 5 minutes.		
		 Initial/Date		
4.5.10	ISOLATE CASB-5	1 OPEN CAV-447 2 CLOSE CAV-445 3 CLOSE CAV-446		
		/ Initial/Date		
4.5.11	SECURE Demineralized water flush after grab sampling	1 STOP CAP-8 2 CLOSE DWV-337 3 CLOSE CAV-471 4 CLOSE CAV-519 5 CLOSE CAV-623 7 CLOSE CAV-623 7 CLOSE CAV-624 8 CLOSE CAV-625 9 CLOSE CAV-626 / Initial/Date		
4.5.12	NOTIFY Operations to CLOSE	NOTIFY Operations CLOSE the		
	Containment Isolation Valves.	following:		
		1 CAV-436 2 CAV-434		

____/ Initial/Date

	ACTIONS			DETAILS
4.5.13	REMOVE CASB-5 SAMPLER)	(GRAB	1	OBTAIN 3/4" wrench from Primary Chemistry lab key
			2	locker. PROCEED to CASB-5 location, 95' elevation Auxiliary building.
			3	REMOVE the Grab Sampler ramp from storage location.
			4	INSTALL the Grab Sampler ramp in front of sample station.
			5	DISCONNECT CASB-5 from the sample station: a SQUEEZE disengagement lever.
				b PUSH the engagement handle to its rearmost position. c PULL UP on cart
				handle locking mechanism to release the cart. d REMOVE CASB-5 cart
			C	from sample station.
			6	INSTALL the transit cover over the quick connects.
			7	REMOVE the cart and move to the Turbine Building crane well.
			8	UNBOLT CASB-5 from the
			9 10	cart using 3/4" wrench. REMOVE T-handle operator. GO TO section 5.0 to prepare CASB-5 for shipment off-site.
				/ Initial/Date

	ACTIONS	DETAILS
4.5.14	INSTALL new Grab Sampler.	 BOLT new Grab Sampler onto cart. REMOVE transit cover. ATTACH transit cover to lifting ring on grab sampler. ATTACH T-handle operator to grab sampler. OPEN CAV-492 using T-handle. OPEN CAV-493 using
		T-handle. 7 PROCEED to sample station

		NOTE: Repeated attempts may be necessary to successfully align CASB-5.
		8 ENGAGE Grab Sampler CASB-5: a One person GUIDE CASB-5 b Another person PUSH CASB-5 UP Ramp AND onto Platform, c HALT CASB-5 several inches from connection points.
		NOTE: WHEN positioned correctly, front of CASB-5 will make metal to metal contact with curved face of sample station.
		d. <u>SLOWLY PUSH CASB-5</u> into Sample Station e. <u>ENGAGE Cart to</u> Station Locking Mechanism. f. <u>PUSH Locking</u> Mechanism handle completely down, DRIVING lock bolt through hole in cart.
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ACTIONS	DETAILS
4.5.14 (Continued)	**************************************
	NOTE: Due to environmental conditions, the click may not be heard.
	<pre>g GENTLY <u>PULL</u> Engagement Handle forward until a distinct "click" i heard. This signifies that quick connect couplings have engaged. h ENSURE engagement: a UNLOCK Cart from station by pulling u on cart handle locking mechanism. b MOVE engagement handle back and forth. c IE properly connected, Cart will move back an forth. i RE-LOCK Cart to Station by pushing locking mechanism handle completely down, driving lock bolt through hole in cart.</pre>

4.6 DEMINERALIZED WATER FLUSH

	ACTIONS	DETAILS
4.6.1	CLOSE Sample Isolation Valves	1 CLOSE CAV-441 2 CLOSE CAV-440
		/ Initial/Date
	NOTE: Refer to Section 5.0	if a HI-HI alarm occurs at CAP-8.
4.6.2	ESTABLISH Demineralized Water Flow	1 CLOSE CAV-624 2 OPEN DWV-337 3 OPEN CAV-471 4 START CAP-8
		NOTE: Adjusting the CAV-624 valve control knob towards OPEN or CLOSED position will vary flow and pressure accordingly.
		5 THROTTLE CAV-624 to obtain flow, between 0.35-0.50 gpm on CA-74-FI.
		/ Initial/Date
4.6.3	FLUSH system	NOTE: Steps 4.6.3 and 4.6.4 may be performed concurrently.
		— FLUSH system for at least 10 minutes.
		/

4.6 DEMINERALIZED WATER FLUSH (Continued)

	ACTIONS	DETAILS
4.6.4	A.I.M.S. Flushing Pre-Requisites	 Learning VERIFY greater than 50 pounds of liquid nitrogen at PASS liquid nitrogen monitor.
		2 ENSURE high voltage applied to the PASS detector at value specified in PASS And RANGE AIMS Equipment Logbook.

		CAUTION: Do not reset liquid nitrogen monitor until high voltage bias has bee lowered to zero.
		10Hered to zero.
		3 ENSURE weekly calibration check performed within past seven days per CH-23 as indicated on weekly Count Room QC logsheet in Count Room Task Logbook.
		/ Initial/Da

4.6 DEMINERALIZED WATER FLUSH (Continued)

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	ACTIONS	DETAILS
	NOTE: ERASE cannot be perfe	ormed from a remote terminal
4.6.5	PERFORM A.I.M.S. Flush	 LOG ON the VAX computer as Username: PASS SELECT PASS MENU. ENTER NO to DO YOU WANT A SPECTRAL DISPLAY WINDOW? (Default) SELECT FLUSH SAMPLE LINES. SELECT SUMP DEMIN FLUSH. MAXIMIZE MCA Display 1 and toggle through ADC's until RCS CONFIGURATION shown. SELECT the ERASE function on MCA Display to re- acquire spectrum. When a low stable count rate is indicated MINIMIZE MCA Display 1. SELECT RETURN. DEPRESS PF4 to QUIT. ENTER LO to log off.
		/ Initial/Date
4.6.6	SECURE Demineralized Water Flush	1. STOP_CAP-8 2. CLOSE_DWV-337 3. CLOSE_CAV-471 4. CLOSE_CAV-519 5. CLOSE_CAV-623 7. CLOSE_CAV-623 7. CLOSE_CAV-624 8. CLOSE_CAV-625 9. CLOSE_CAV-626 NOTIFY Operations CLOSE the following: 10. CAV-436 11. CAV-434

/ Initial/Date

4.7 <u>SYSTEM RESTORATION</u>

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	ACTIONS	DETAILS
4.7.1	SECURE flow	ENSURE CLOSED the following:
		$\begin{array}{cccccccccccccccccccccccccccccccccccc$
		/ Initial/Date

_

5.0 CONTINGENCIES

-

5.1 <u>CAT-8 HI-HI LEVEL ALARM</u>

ACTIONS	DETAILS
5.1.1 PERFORM lineup	ENSURE the following: 1 CAP-10 OFF 2 CAV-623 CLOSED 3 CAV-627 CLOSED 4 CONCURRENTLY PERFORM the following until CAT-8 HI- HI level alarm light clears: o DEPRESS and hold RESET button on Drain Tank level indicator o SELECT CAP-10 to ON 5 OPEN CAV-623 6 SELECT CAP-10 to AUTO 7 RETURN to the step in the procedure which was in progress when the CAT-8 HI-HI level alarm occurred.

5.2 NOTIFICATIONS AND SHIPMENT

	ACTIONS		DETAILS
	NOTE: The Emergency 24 hour	access	phone number is (804) 522-5833.
	NOTE: Spare grab sample bom FIMIS # 1400513.	nbs are	stored in the Oil Tank warehouse
	5.2.1 PERFORM notifications		Notify the Manager, Nuclear Operations Materials Controls that a grab sample has been taken and to initiate acquisition process for shielded sample cask.
			Notify the BWX Technologies Emergency Sample Coordinator when a grab sample has been collected that will require offsite analysis.
			Required information to be made available:
			 Utility and plant name Name and phone of ChemRad Specialist to whom follow-up communication should be addressed. Number and type of samples to be shipped (i.e., liquid, gaseous, or iodine cartridge). Measured radiation levels at the surface and three
		([<pre>feet from the shipping container. 0 Estimated shipping time, mode of transportation, carrier, and estimated arrival at BWX Technologies site in Lynchburg, VA.</pre>
		(Lon	tinued on next page)

5.2 NOTIFICATIONS AND SHIPMENT (Cont'd)

	ACTIONS	DETAILS
5.2.1	Continued	Shipping Address: BWX Technologies Lynchburg Technology Center Route 726, Mt. Athos Road Lynchburg, VA. 24506 Attn: Kenneth D. Long (804) 522-5982 —— All data accumulated per this procedure is to be summarized on Enclosure 1 and forwarded to the Emergency Coordinator via Chemistry Supervision.
		/ Initial/Date

TECHNICAL SUPPORT CENTER DATA SHEET

"A" DECAY HEAT TRAIN SAMPLE

Gamma Isotopic and/or Boron Analysis Results

Boron	ppm	/// Initial/Date/Time
Boron	ppm	/// Initial/Date/Time
Boron	ppm	/_/ Initial/Date/Time
Boron	ppm	/// Initial/Date/Time
Total Activity		uCi/cc
<u>Major</u> (Contributing Isotopes	
Isotope	Activity	
		uCi/cc
	<u></u>	uCi/cc
	<u></u>	uCi/cc
	<u> </u>	uCi/cc
		uCi/cc

/// Initial/Date/Time ASSESSMENT OF CORE DAMAGE BASED ON REACTOR COOLANT SAMPLE ("A" DECAY HEAT)

- 1. This method of confirming core damage assumes that releases from the core are uniformly mixed in the "A" Decay Heat Train AND there is no dilution from injection.
- 2. The baseline coolant concentrations in Table 1 are for 0.5 hour after shutdown of a core that has been through at least one refueling cycle.
- 3. The half-life of the fission products should be considered in analyzing samples.
- 4. Compare the "A" Decay Heat PASS sample activities from Enclosure 1 with the baseline coolant concentrations in Table 1. This table overestimates the concentration of the long-lived fission products (Cs and Sr) in a new core.
- 5. Determine the extent of core damage as indicated by Table 1 (i.e., normal, gas gap, core melt).

TABLE 1

BASELINE REACTOR COOLANT CONCENTRATION

Nuclide	Normal Concentration (uCi/g)	Concentration After Gap Release (uCi/g)	Concentration After Core Melt (uCi/g)	TMI Concentration + 48 Hours (uCi/g)
I-131	4E-2	2E4	1E5	1.3E4
I-133	1E-1	3E4	2E5	6.5E3
I-135	2E-1	3E4	2E5	No Data
Cs-134	7E-3	2E3	8E3	6.3E1
Cs-137	9E-3	9E2	5E3	2.8E2
Ba-140	No Data	No Data	3E4	No Data
Sr-90	1E-5	No Data	1E4	5.3

6. Report determination to Dose Assessment Coordinator.

Initial/Date

PROCEDURE DEVELOPMENT AND REVISION RECORD

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Procedure:	CH0632B	New Rev:	2	PRR#:	17340	
Title: SYSTEM	POST ACC	IDENT SAMPLIN	g and ana	ALYSIS OF REACTO	OR COOLANT WHEN ON THE "A" DECAY HEAT	
MINOR	CHANGE	ES		· - · · · · · · · · · · · · · · · · · ·		
		cluded, check the ns are incorporat			ide a list of affected steps.	
	_ Sentence	Structure			_ Redundant words or phrases	
	_ Punctuati	on Abbreviati	ons			
	_ Capitaliza	ation _			Obviously incorrect units of measure	
	_ Spelling	_ Inadverter	ntly omitted	symbols (#, %, etc.)		
	departme	tional Changes: p ent names, or telep prmat			Obvious step numbering discrepancies	
		s are incorporate a large number o		ep(s) indicated: "Tł	hroughout" is used in lieu of Step# if a	
		ng equipment no I labels or baland		that does not agre dure	е 	
		g information the ed correctly else		sly incorrect and		
	Misplace tolerance		are neither	setpoint values no	r	
	Reference to a procedure when an approved procedure has taken the place of another procedure					
	Fixing branching points when it is clear the branching steps were originally intended but were overlooked or incorrectly stated due to step number changes					
	Adding	clarifying inform	ation such	as NOTES and CAL	JTIONS	
	Adding words to clarify steps, NOTES, or CAUTIONS which clearly do not change the methodology or intent of the steps					

PROCEDURE DEVELOPMENT AND REVISION RECORD

Procedure:	CH0632B	New Rev:	2	PRR#:		17340
Title: SYSTEM	POST ACC	IDENT SAMPL	ING AND ANAL	YSIS OF REACT	OR (COOLANT WHEN ON THE "A" DECAY HEAT
MINOR	CHANG	ES				
lf Minor Ch The follow	anges are in ing correction	cluded, check ns are incorpo	the applicable b rated throughou	oox(es) and prov ut:	/ide a	a list of affected steps.
	_ Sentence	Structure			_	Redundant words or phrases
	_ Punctuati	on_ Abbrevi	ations			
	_ Capitaliza	ation _			Ob	viously incorrect units of measure
	_ Spelling	_ Inadver	tently omitted sy	mbols (#, %, etc.))	
	departme	tional Changes: nt names, or te rmat	position titles, lephone number	s	X	Obvious step numbering discrepancies
	Correctir	a large number ng equipment r l labels or bala		nat does not agr re	ee	
	Changing	g information t ed correctly els	hat is obviously sewhere	y incorrect and		· · · · · · · · · · · · · · · · · · ·
	Misplace tolerance		t are neither se	tpoint values no	o r	
	Referenc has take	e to a procedu n the place of a	re when an app another proced	proved procedur ure	e	
	steps we	re originally in	s when it is clea tended but wer o step number	ar the branching e overlooked or changes		
5.2	Adding o	larifying inform	nation such as	NOTES and CA	UTIO	NS
	Adding v clearly d steps	vords to clarify o not change t	v steps, NOTES, he methodolog	, or CAUTIONS v y or intent of the	which	,

PROCEDURE DEVELOPMENT AND REVISION RECORD

Procedure:	FP0701 New Rev:	25	PRR#:	17771
Title:	INCORE MONITOR HANDLING	3		
NON-IN	TENT CHANGES			
-				

Changes are incorporated for the reasons provided. "Throughout" is used in lieu of Step # if a specific change affects a large number of steps. For new or cancelled procedures the reason is provided.

4.6.5 - 4.6.5.3 Added information for routing and securing cables to cable suport assemblies.

Enclosure 11	Changed NIA cables numbers NIA41, 43, 45, 47, 49, 51 to NIA328, 329, 330, 331, 332
	and 333 respectively.

Enclosure 15 Added new Incore Cable Connection Seperation Schedule (7 pages).

2.1.11 Added MAR 96-11-03-01, Subcooling Margin Monitor Upgrade as a reference.