

October 29, 2002

L-2002-215 10 CFR 50 Appendix E

U. S. Nuclear Regulatory Commission

Attn: Document Control Desk Washington, D. C. 20555

Re:

St. Lucie Units 1 and 2

Docket Nos. 50-335 and 50-389

Emergency Plan Implementing Procedure

In accordance with 10 CFR 50 Appendix E, enclosed is a copy of a revised procedure that implements the St. Lucie Plant Radiological Emergency Plan.

Number	<u>Title</u>	Revision	Implementation Date
COP-06.11	Establishing Remote Laboratory For Analyses Of Accident Samples	0B	October 18, 2002

COP-06.11 was revised to remove references and steps that refer to manual boron titration since alhare performed with auto titration only.

Very truly yours,

Donald E. Jernigan Vice President St. Lucie Plant

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Enclosure

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ST. LUCIE PLANT

CHEMISTRY OPERATING PROCEDURE

SAFETY RELATED

Procedure No.

COP-06.11

Current Revision No.

0B

Effective Date 10/18/02

Title:

ESTABLISHING REMOTE LABORATORY FOR ANALYSES OF ACCIDENT SAMPLES

Responsible Department: CHEMISTRY

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REVISION SUMMARY:

REVISION 0B – Removed references and steps that refer to man paddonound rational are all performed with auto titration only. (Dale Majewski, 10/16/02)

REVISION 0A – Replaced references to C-46 with COP-01.07. Replaced reference to C-46 with COP-01.07 on page 10 of 12. FRG reviewed this minor correction on 01/11/00. The PGM's name was added to cover page. The cover page and page 10 were reissued. (David Valentine, 12/03/99)

REVISION 0 – *Previously issued as C-111.* This procedure provides instruction for the Operational Support Center (OSC) Chemistry Supervisor to establish remote laboratories at the location(s) specified by the Technical Support Center (TSC) Chemistry Supervisor. (Russ Cox, 05/27/99)

Revision 0	FRG Review Date 05/27/99	Approved By R. G. West	Approval Date 05/27/99	DATE	OPS
		Plant General Manager		DOCT	PROCEDURE
Revision 0B	FRG Review Date 01/11/00	Approved By R. G. West	Approval Date 01/11/00	DOCN	COP-06 11
		Plant General Manager		сом	COMPLETED
		Eric Katzman	12/03/99	ITM	0В
		Designated Approver G.A. Bird	10/16/02		
		Designated Approver (Minor Correction)			

REVISION NO:

0B

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ESTABLISHING REMOTE LABORATORY FOR ANALYSES OF ACCIDENT SAMPLES ST. LUCIE PLANT

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COP-06.11

REVISION NO.:

ESTABLISHING REMOTE LABORATORY FOR ANALYSES OF ACCIDENT SAMPLES ST. LUCIE PLANT

1.0 PURPOSE

- 1.1 This procedure provides instruction for the Operational Support Center (OSC)
 Chemistry Supervisor to establish remote laboratories at the location(s) specified by the Technical Support Center (TSC) Chemistry Supervisor.
- 1.2 To identify the minimum analyses equipment required for initial Accident Conditions.

PROCEDURE TITLE.

2.0 REFERENCES

NOTE

One or more of the following symbols may be used in this procedure:

- § Indicates a Regulatory commitment made by Technical Specifications, Condition of License, Audit, LER, Bulletin, Operating Experience, License Renewal, etc. and shall NOT be revised without Facility Review Group review and Plant General Manager approval.
- ¶ Indicates a management directive, vendor recommendation, plant practice or other non-regulatory commitment that should NOT be revised without consultation with the plant staff.
- Ψ Indicates a step that requires a sign off on an attachment.

2.1 Plant Procedures

- EPIP-05, Activation and Operation of the Operational Support Center
- ADM-17.09, Invoking 10 CFR 50.54 (X)
- COP-06.06, Guidelines for Collecting Post Accident Samples
- COP-07.15, Determination of Boron Using the Mettler Titrator
- COP-65.01, Ortec Multichannel Analyzers
- COP-01.04, Determination of Gross Beta Gamma and Tritium with LS6500 Liquid Scintillation Counter
- COP-01.07, Determination of Gross Alpha Radioactivity

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3.0 PREREQUISITES

3.1 Power from 110 volt AC outlets available.

4.0 PRECAUTIONS / LIMITATIONS

- 4.1 Standard Health Physics precautions shall be observed while handling all Accident samples.
- 4.2 ADM-17.09, Invoking 10 CFR 50.54(X), addresses the suspension of some Technical Specifications Surveillances when the Reactor Coolant System (RCS) is declared Out of Service. ADM-17.09 should be reviewed if the RCS is declared out of service as a result of accident conditions.
- 4.3 P-10 Gas is FLAMMABLE and under high pressure in the bottle.

5.0 RECORDS REQUIRED

5.1 As per routine requirements of the applicable procedures regulating the systems and sampling, etc., as per Chemistry LIMs data base computer, records for Accident Sample Inventory and Tracking as per Results Templates P1_PAS_INV for Unit 1, and P2_PAS_INV for Unit 2, or shall be maintained in the plant files in accordance with QI-17-PSL-1, Quality Assurance Records.

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(COP-06.1	1	ST. LUCIE PLANT			
6.0	INSTRU	JCTIC	DNS	Date/Tir	<u>ne</u>	<u>Initials</u>
6.1			emistry Supervisor shall establish the operation boratories as follows:			
	C F	Chemi Remot	SC Chemistry Supervisor shall contact the TSC stry Supervisor to assess the location of the te Lab(s) based on the affected Reactor Unit afe location to locate the lab(s).			
	C	Check	the appropriate choices:			
	P	Accide	ent affected Reactor is Unit 1			
			OR Unit 2			
	E	Boron	analysis Remote Lab is:			
			Unit 1 Hot Lab			
			Unit 2 Hot Lab			
			Unit 1 Cold Lab			
			Other Location:	/_		
	ŗ	oha a	nalysis Remote Lab is:			
			Unit 1 Hot Lab			
			Unit 2 Hot Lab			
			Unit 1 Cold Lab			
			Other Location:	/_		
	\$ {	shall a analys	on as possible, the OSC Chemistry Supervisor assess and/or direct that the following minimum ses equipment is set up in the designated the Lab(s), and ENTER the location of the test (s).			
			Boron Analysis Stand per Step 6.2 is RABLE at location:	/_		
			oha multi-channel analyzer per Step 6.3 is RABLE at location:	/_		

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6.1 The OSC Che operation of (continued)	nemistry Supervisor shall establish the the Remote Laboratories as follows:	Date/Ti	<u>me</u>	<u>Initials</u>
the O direct	cident time and manpower conditions permit, SC Chemistry Supervisor shall assess and/or that the following equipment / processes are sethe designated Remote Lab(s).	∍t		
	Fritium Analysis System per Step 6.4 is RABLE at location:	/_		
	Alpha Analysis System per Step 6.5 is RABLE at location:	/_		
the R	ond pha Detector and 92X spectrum master in emote Lab per Step 6.3 if the Chemistry ting Room cannot be used as a Remote Lab.	/_		
One	Sample Prescreening Process per Step 6.6	/_		
	ment Accident Sample Inventory and Results mentation Process for records required per 5.1	/_		

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6.2	Set l	Jp Boror	Analysis Stand(s)		<u>Date/</u> ∏	<u> ime</u>	Initials
	1.	of Bor	RE that a copy of COP-07.1 on Using the Mettler Titrator mote Lab location.	5, Determination , is available for	/_		
	2.	reager	RE test stand equipment, state are available in the Remable procedure above.		/_		
	3.	ENSU	RE a QC Boron Calibration	Check is			

performed on the instrument test stand prior to use. ____/_

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6.3 Set Up Gamr	na Pulse Height Analyzer(pha) System	Date/T	ime <u>Initials</u>
	RE that a pha system is available in the ee Lab(s) consisting of:		
	mputer "HOBBES", one 92X Spectrum r, and Detector #1 and/or Detector #2.		
ſ	OR		
	mputer "CALVIN", one 92X Spectrum Master, etector #3.	/_	
Multich	RE that a copy of COP-65.01, Ortec nannel Analyzers, is available in the Remote r the pha system(s).	/_	
Chemi was in Power to the	oha system(s) were moved from the Unit 1 stry Counting Room or the Power to them terrupted, Then VERIFY that the High Voltage Supply to the Detector(s) has been restored values displayed on the front panel of each or's 92X interface box.		
availal	RE that a Quality Control Check Source is ole <u>and</u> that an Activity Check is performed on tector(s) that are present, prior to use.	/_	

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6.4	Set U	p Tritiun	n Analysis System	Date/T	ime	<u>Initials</u>
	1.		RE that a Beckman LS 6500 Scintillator is ble in a Remote Lab.	/_		-
	2.	of Gro	RE that a copy of COP-01.04, Determination as Beta Gamma and Tritium with LS6500 Scintillation Counter is available in the te Lab.	/_		
	3.	availal	RE that Quality Control Check Source(s) are ole and that an Activity Check is performed on er Program(s) for Tritium and/or 1 ml. Gross o use.	/_		
						-

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Set Up Alp	ha Analysis System	Date/T	ime <u>Initials</u>
of C	Gross Alpha Radioactivity, is available in the	/	
	<u>CAUTION</u> P-10 gas is FLAMMABLE.		
		/_	
up inst	n a Remote Lab (other than the Chemistry Unit 1 inting Room), <u>Then</u> the bottle connections and rument tubing connections should be checked		
ava	ilable and that an Activity Check is performed	/	
	OB RE NO: P-06.11 Set Up Alp L. ENS ass C. ENS of G Ren L. Lf a up i Coul inst for g ava	ESTABLISHING REMOTE LABORATOR FOR ANALYSES OF ACCIDENT SAMPL Set Up Alpha Analysis System ENSURE that one Alpha Counter and counting assembly is available in a Remote Lab. ENSURE that a copy of COP-01.07, Determination of Gross Alpha Radioactivity, is available in the Remote Lab. CAUTION P-10 gas is FLAMMABLE. ENSURE that a P-10 gas bottle is available to supply the instrument at the Remote Lab location. If a P-10 bottle and temporary tubing have to be set up in a Remote Lab (other than the Chemistry Unit 1 Counting Room), Then the bottle connections and instrument tubing connections should be checked for gas leaks.	ESTABLISHING REMOTE LABORATORY FOR ANALYSES OF ACCIDENT SAMPLES ST. LUCIE PLANT Bet Up Alpha Analysis System ENSURE that one Alpha Counter and counting assembly is available in a Remote Lab. ENSURE that a copy of COP-01.07, Determination of Gross Alpha Radioactivity, is available in the Remote Lab. CAUTION P-10 gas is FLAMMABLE. ENSURE that a P-10 gas bottle is available to supply the instrument at the Remote Lab location. If a P-10 bottle and temporary tubing have to be set up in a Remote Lab (other than the Chemistry Unit 1 Counting Room), Then the bottle connections and instrument tubing connections should be checked for gas leaks. ENSURE that a Quality Control Check Source is available and that an Activity Check is performed

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6.6 Set Up Samp	le Prescreening Process in Remote Lab	Date/T	<u>ime</u>	<u>Initials</u>
Meter survey	IN a Health Physics General Area Survey for the Remote Lab. If available, Then the meter should have OPEN and CLOSED w capability.			
	Y that the Survey Meter is calibrated per the calibration sticker.	/_		
3. CHEC satisfa	K the Survey Meter's Battery Check is actory.	/_		
4. The Si contac counti	urvey Meter should be used to measure treadings on accident samples prior to ng.	/_		
filled o sampl	ng-term accident recovery, Figure 1 should be but to provide guidance for the maximum e radiation reading(s) that can be tolerated for ng without sample pretreatment (dilution).	/_		

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FIGURE 1 MAXIMUM ALLOWABLE RADIATION READING ON SAMPLE FOR AVOIDING EXCESSIVE ANALYSIS DEAD TIME (Page 1 of 1)

For GAMMA Analysis Without Pre-Dilution						
Sample TYPE and Container	Analysis System	HP Survey Meter Maximum Allowable Contact Reading	Specify Engineering Units			
Gas in ~30 cc glass sphere	pha on Shelf #1					
Gas in 1250 cc mari beaker	pha on Face					
Liquid in 16 ml vial geometry	pha on Shelf #1					
Liquid in 4000 ml mari beaker	pha on Face					
lodine in TEDA II cartridge	pha on Shelf #1 (flip counted)					
Particulate Filter in Whirlpak on Shelf # 0 (zero) on Detector 1 (or 2)	pha on Shelf #0 (zero)					
Particulate Filter in Whirlpak on Shelf #1 on Detector 3	pha on Shelf #1					
Evaporated Liquid in planchet	pha on appropriate shelf					

For Alpha and Tritium Analysis Without Pre-Dilution						
Sample TYPE and Container	Analysis System	HP Survey Meter Maximum Allowable Contact Reading: Specify Open Window (OW) or Closed Window (CW)	Specify Engineering Units			
Tritium in Liquid Sample	Beckman LS6500					
Tritium in Gas Sparger Sample	Beckman LS6500					
Alpha in Evaporated Liquid Sample In Planchet	Alpha Counting System					
Alpha Filter Sample in Planchet	Alpha Counting System					