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THE FOLLOWING CHANGES HAVE OCCURRED TO THE HARDCOPY OR ELECTRONIC MANUAL ASSIGNED TO YOU:

115 - 115 - CHEMISTRY SAMPLING TEAM: EMERGENCY PLAN-POSITION SPECIFIC PROCEDURE

REMOVE MANUAL TABLE OF CONTENTS DATE: 06/24/2003

ADD MANUAL TABLE OF CONTENTS DATE: 06/26/2003

CATEGORY: PROCEDURES TYPE: EP

ID: EP-PS-115

REMOVE: REV: 14

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AD45

PROCEDURE COVER SHEET

PPL SUSQUEHANNA, LLC		NUCLEAR DEPARTMENT PROCEDURE	
CHEMISTRY SAMPLING TEAM EMERGENCY PLAN POSITION SPECIFIC INSTRUCTION			EP-PS-115 Revision 15 Page 1 of 4
QUALITY CLASSIFICATION: <input type="checkbox"/> QA Program <input checked="" type="checkbox"/> Non-QA Program		APPROVAL CLASSIFICATION: <input type="checkbox"/> Plant <input type="checkbox"/> Non-Plant <input checked="" type="checkbox"/> Instruction	
EFFECTIVE DATE: <u>6-26-2003</u> PERIODIC REVIEW FREQUENCY: <u>2 Years</u> PERIODIC REVIEW DUE DATE: <u>6-26-2005</u>			
RECOMMENDED REVIEWS: ALL			
Procedure Owner: <u>Nuclear Emergency Planning</u> Responsible Supervisor: <u>Chemistry Supervisor-SSSES</u> Responsible FUM: <u>Supv.-Nuclear Emergency Planning</u> Responsible Approver: <u>Vice President-Site Operations</u>			

CHEMISTRY SAMPLING TEAM

Emergency Plan-Position Specific Procedure

WHEN: All Phases, Alert or higher
HOW NOTIFIED: Plant Page System
REPORT TO: Chemistry Coordinator or TSC Coordinator
WHERE TO REPORT: Control Room and then TSC

OVERALL DUTY:

Collect and analyze samples to obtain data required to manage the emergency.

MAJOR TASKS:

TAB:

REVISION:

BRIEFING, ASSIGNMENTS, AND PREPARATION OF RADIOCHEMISTRY LAB(S)

Report for briefing and assignment(s)	TAB A	9
Prepare In-Plant Chemistry Lab to accept samples	TAB B	4
Prepare West Building Chemistry Lab to accept samples	TAB C	6

PASS SAMPLING AND ANALYSIS PROCEDURES

Prepare Post Accident Sample Station (PASS) for sample collection. Secure PASS after sample(s) have been taken	TAB D	9
Collect Small Volume Liquid Sample(s) from PASS	TAB E	7
Collect Dissolved Gas Sample(s) and/or Large Volume Liquid Sample(s) from PASS	TAB F	8
Collect 14.7cc Gas Sample(s) from PASS	TAB G	7
Collect Iodine/Particulate Sample(s) from PASS	TAB H	5
Prepare and Analyze PASS Small Volume Liquid Sample(s)	TAB I	6

MAJOR TASKS:	TAB:	REVISION:
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PASS SAMPLING AND ANALYSIS PROCEDURES (continued)

Prepare and Analyze PASS Dissolved Gas Sample(s)	TAB J	7
Prepare and Analyze PASS 14.7 cc Gas Sample(s)	TAB K	7
Prepare and Analyze PASS Particulate and Iodine Sample(s)	TAB L	4

VENT MONITORING AND ANALYSIS PROCEDURES

Collect SPING Sample(s) from Vent Monitoring System on Reactor Building 818' EL.	TAB M	6
Collect Sample(s) from Post Accident Vent Sampling System (PAVSS) on Turbine 729' EL.	TAB N	9
Prepare and Analyze Vent Monitor Sample(s)	TAB O	7

ADDITIONAL TASKS

Collect and Analyze Sample from Reactor Building Sampling Station. Sample has potential to be highly radioactive.	TAB P	5
In the event of an Unmonitored Liquid Release, collect and analyze Liquid Samples	TAB Q	6
RHR Service Water samples when RHR Service Water is in service but RHR-SW rad monitor is inoperable and normal sample point is unavailable	TAB R	5

SUPPORTING INFORMATION:**TAB:**

Emergency Telephone Instructions	TAB 1
Emergency Organizations	TAB 2
Logkeeping	TAB 3
Sampling Requirements Based on Key Indicators	TAB 4
Intentionally Blank	TAB 5
Area Radiation Monitors	TAB 6
PAVSS Instructions	TAB 7

REFERENCES:

Post Accident Sample Station User's Manual, GE, NEDC-24889

General Electric Post Accident Sample Station Manual, GEK-83344

CH-CC-010, Chloride – Silver Nitrate Turbidimetric Method

CH-CC-030, Laboratory pH Determination

CH-CC-040, Hydrogen By GC

Ch-CC-043, Analytical Procedures for HACH or BETZ Portable Spectrophotometer Labs

CH-GI-051, Instrument Checks at the Offsite Chemistry Lab

CH-RC-010, Iodine Counting and Data Analysis

CH-RC-016, Particulate Filter Analysis

CH-RC-071, Radiochemical Analysis of High Activity Iodine Cartridge Samples

CH-RC-076, Gamma Spectral Analysis Using the ND 9900

TS 5.5.3

MAJOR TASK:

Report for briefing and assignment(s).

SPECIFIC TASKS:	HOW:	INITIALS
------------------------	-------------	-----------------

- | | | |
|---|--|--|
| 1. Immediately report to the Control Room unless otherwise directed. | | |
| 2. If directed by the Shift Manager to obtain a Reactor Coolant Sample, obtain the following information from the Control Room: | | |

- | | |
|--|--|
| 2a. Obtain the following information from the control room: | |
| • Ask if RWCU and/or Reactor Recirculation Systems are isolated. | |
| • If RWCU or Recirc are isolated, proceed with the following steps to obtain a PASS Sample. | |
| • If RWCU or Recirc are NOT isolated, proceed to Step 5(b)4 and TAB P to obtain a sample from the RB Sample Station. | |

NOTE:

If the reactor is pressurized obtain a routine coolant sample from PASS. If the Reactor is depressurized obtain a PASS sample from RHR.

(1) Reactor Pressure:
_____psig

(2) RHR Mode:

RHR Pump A & C
In Service / Out of Service (circle)

RHR Pump B & D
In Service / Out of Service (circle)

(3) If a RHR sample is requested, record date and time RHR was placed in mode to be sampled. _____

SPECIFIC TASKS:

HOW:

INITIALS

3. Upon activation of the TSC report to the Technical Support Coordinator until the arrival of the Chemistry Coordinator.

4. Obtain briefing and assignments from the Technical Support Coordinator until the arrival of the Chemistry Coordinator.

- 4a. The following information:

(1) Team # _____

(2) Required samples and analyses:

- 4b. If PASS samples are requested, obtain the following information:

(1) Reactor Pressure: _____ psig

(2) RHR Mode: _____

RHR Pump A&C In Service/
Out of Service. (Circle)

RHR Pump B&D In Service/
Out of Service. (Circle)

(3) If a RHR sample is requested, record date and time RHR was placed in mode to be sampled. _____

- 4c. If PAVSS samples are requested, perform the following:

(1) Contact I&C to reset flow totalizers on PAVSS prior to sampling.

SPECIFIC TASKS:

HOW:

INITIALS

5b. Perform the following special actions, if applicable:

- (1) If collecting a SPING sample, obtain and record ARM readings on Reactor Building 818' El.

- (2) If collecting a PAVSS sample, obtain radiation readings from Turbine Building 729' El. And record.

- (3) If collecting a PASS sample, obtain radiation readings from Turbine Building 729' El. and record.

(3) Record any pertinent technical conditions which could affect sample collection:

SPECIFIC TASKS:	HOW:	INITIALS
	<div>HELP</div> <div>PASS Sample(s)</div> <div>See TAB D</div>	
	<div>HELP</div> <div>SPING Sample(s)</div> <div>See TAB M</div>	
	<div>HELP</div> <div>PAVSS Sample(s)</div> <div>See TAB N</div>	
	<div>HELP</div> <div>RBSS Sample(s)</div> <div>See TAB P</div>	
	<div>HELP</div> <div>Unmonitored Liquid Release Sample(s)</div> <div>See TAB Q</div>	