

Print 103
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PROCEDURE COVER SHEET

PENNSYLVANIA POWER & LIGHT CO. SUSQUEHANNA STEAM ELECTRIC STATION		EP-IP-034 Revision 3 Page 1 of 12
REACTOR BUILDING SAMPLE STATION EMERGENCY SAMPLING		
Effective Date <u>1-10-84</u>	Expiration Date <u>1-10-86</u>	
Revised Expiration Date _____		
PROCEDURE TYPE: PORC <input checked="" type="checkbox"/> , NON-PORC _____, Alternate Review _____		
PORC MTG. NO. <u>83-265</u> (If applicable)		

CONTROLLED

Prepared by <u>Lemuel K. Vrank</u>	Date <u>11-11-83</u>
Reviewed by <u>Raymond E. Doebler</u>	Date <u>11-12-83</u>
Recommended: <u>[Signature]</u> Section Head/Manager	Date <u>11/16/83</u>
<u>[Signature]</u> Superintendent of Plant	Date <u>1-5-84</u>

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1.0 PURPOSE

The purpose of this procedure is to outline the steps that shall be followed while sampling potentially highly radioactive water from the Reactor Building chemistry sampling hood (Level 779') following an incident that could involve fuel degradation.

2.0 SCOPE

To provide the Chemistry Department with instructions and guidelines for obtaining and preparing for analysis a potentially highly radioactive sample from the Reactor Building chemistry sampling hood (Level 779') during Emergency Conditions.

3.0 REFERENCES

- 3.1 SSES Emergency Plan
- 3.2 EP-IP-010, In-Plant Emergency Monitoring
- 3.3 EP-IP-033, Dose Assessment and Protective Actions
- 3.4 EP-IP-042, Chemistry Lab Emergency Preparation

4.0 RESPONSIBILITIES

- 4.1 The EMERGENCY DIRECTOR or designated COORDINATOR is responsible for instructing, directing, and dispatching the CHEMISTRY SAMPLING TEAM.
- 4.2 The CHEMISTRY SAMPLING TEAM is responsible for obtaining potentially highly radioactive samples from the Reactor Building chemistry sampling hood (Level 779') in accordance with this procedure.

5.0 DEFINITIONS

SCBA - Self - Contained Breathing Apparatus

6.0 INSTRUCTIONS

- 6.1 The EMERGENCY DIRECTOR or designated COORDINATOR will follow instructions in Attachment A, Action Step-EMERGENCY DIRECTOR, OSC COORDINATOR, TSC COORDINATOR.

- 6.2 The CHEMISTRY SAMPLING TEAM will follow instructions in Attachment B, Action Step-CHEMISTRY SAMPLING TEAM.
- 6.3 Chemistry Personnel will follow instructions in Attachment C, Sample Dilution and Analysis.

ACTION STEP
EMERGENCY DIRECTOR
OSC COORDINATOR
TSC COORDINATOR

CHECK

A.1.0 The EMERGENCY DIRECTOR or designated COORDINATOR will:

____ A.1.1 Direct the activities of the CHEMISTRY SAMPLING TEAM.

____ A.1.2 Brief TEAM on existing emergency and instruct personnel as to what samples are required.

____ A.1.3 Appoint a TEAM LEADER.

NOTE: CONSIDER SPECIAL REQUIREMENTS FOR MINIMIZING INTERNAL AND EXTERNAL EXPOSURE PER EP-IP-033, "DOSE ASSESSMENT AND PROTECTION ACTION".

____ A.1.4 Instruct the RADIO COMMUNICATOR in TSC (if TSC is activated) to assign code name to TEAM and to maintain communications with TEAM LEADER.

____ A.1.5 Coordinate with the RADIATION PROTECTION COORDINATOR respiratory protective devices and protective clothing requirements needed for this sampling function. Obtain latest survey results, from Reactor Building level 779' including reading from ARM-11 (if available).

____ A.1.6 Assign additional SAMPLING PERSONNEL to assist or relieve TEAM as circumstances dictate.

____ A.1.7 Advise the EMERGENCY DIRECTOR immediately of any conditions or survey results that may be of assistance in evaluating the Emergency Condition.

____ A.1.8 Inform the EMERGENCY DIRECTOR of the CHEMISTRY SAMPLING TEAM results.

ACTION STEP
CHEMISTRY SAMPLING TEAM

CHECK

B.1.0 The CHEMISTRY SAMPLING TEAM will:

NOTE: All Unit 2 valve numbers are shown in parentheses after the Unit 1 numbers.

____ B.1.1 Upon notification of an EMERGENCY, report immediately where instructed for briefing and assignment.

____ B.1.2 Obtain from the COORDINATOR:

- a. Specific sample requested.
- b. Anticipated area radiation readings including the reading of ARM-11 in the sampling room.
- c. Special instructions including respiratory protection requirements, protective clothing requirements, and radiation detection instrument selection.

____ B.1.3 Ensure the chemistry laboratory is prepared per EP-IP-042, as necessary.

____ B.1.4 Assemble or locate the following equipment:

- a. Respiratory protective devices and protective clothing specified by COORDINATOR.
- b. Hi-range dosimetry and extremity dosimetry.
- c. Survey meter
- d. Sampling bottles
- e. Surgeons gloves
- f. Plastic bags
- g. Stopwatch

- _____ B.1.5 Perform instrument checks on survey meter.
- _____ B.1.6 Request Operations to check open the sample trip valves, HV-1F019 and HV-1F020 (HV-2F019 and HV-2F020).
- _____ B.1.7 Don protective clothing and respiratory protective device as specified by the COORDINATOR.
- _____ B.1.8 Assure that TLD and SRD are worn.
- _____ B.1.9 Ensure survey meter is operational and on highest range before leaving chemistry laboratory.
- _____ B.1.10 Proceed to sampling station and while enroute continuously monitor radiation levels and the status of CAM's and ARM's.
 - a. If general area radiation levels exceed 1,000 mrem/hr. at any time during this procedure, retreat to a low background area and notify the COORDINATOR.
 - b. If your total quarterly whole-body exposure approaches 2,500 mrem, terminate the mission and notify the COORDINATOR.
- _____ B.1.11 Upon arriving at the sample room, proceed to the SOUTHWEST door and determine radiation levels in the general area of the door and also obtain contact readings of the door.
 - a. If general area and contact readings are > 1,000 mrem/hr., retreat to a low background area and notify the COORDINATOR.
 - b. If general area and contact readings are < 1,000 mrem/hr., open the sampling room door and proceed into the room while continuously monitoring radiation levels.

NOTE: THE WORK AREA SHALL BE CONTINUOUSLY MONITORED BEFORE, DURING, AND AFTER THE SAMPLE COLLECTION. IF RADIATION LEVELS EXCEED 1,000 mrem/hr. AT ANY TIME DURING THIS PROCEDURE, SHUT THE SAMPLE VALVE, RETREAT TO A LOW BACKGROUND AREA AND NOTIFY THE COORDINATOR.

- B.1.12 If hood ventilation is not functioning properly, retreat and notify the COORDINATOR.
- B.1.13 Open the valve for the appropriate sample and flush for thirty (30) seconds.
- B.1.14 Collect up to approximately 100 ml of sample while monitoring to assure the contact dose rate does not exceed 5000 mrem/hr. Minimize the time in close proximity to the sample. Use remote handling devices where appropriate.
- B.1.15 Shut the sample valve and cap sample bottle.
- B.1.16 Place the sample bottle in a plastic bag and obtain contact dose rate. Notify COORDINATOR of sample volume and contact dose rate.
- B.1.17 Record: Sample Time, Sample Date, and Contact Dose Rate.
- B.1.18 If dose rate exceeds 100 mrem/hr. place the sample in a lead cask. The cask will be stored in the sample station.
- B.1.19 Remove the cask from the sample room and take contact readings.
 - a. If contact readings are > 1,000 mrem/hr., notify the COORDINATOR.
 - b. If contact readings are < 1,000 mrem/hr., transport sample back to chemistry laboratory for dilution and notify the COORDINATOR that sampling is completed.

SAMPLE DILUTION AND ANALYSIS

CHECK

C.1.0 Chemistry Personnel will:

- C.1.1 Place the sample behind the lead brick shield in the fume hood in the Sample Prep Room upon returning from the Sample Station.
- C.1.2 Pipette 10 ml of the sample into a numbered liquid sample vial.
- C.1.3 Obtain an approximate contact dose rate for the sample.
- C.1.4 Using the dose rate from Step C.1.3 and the following table as a guide, determine the approximate number and type of dilutions which will give a 10 ml sample with a contact dose rate in the range of 0.05 to 0.5 mrem/hr.

<u>Sample Vial</u> <u>Dose Rate (mrem/hr.)</u>	<u>Dilution (ml)</u>
0-0.5	count as is
0.5-5	1 to 10
5-50	0.1 to 10
50-500	0.1 to 10 and 1 to 10
500-5000	0.1 to 10 (2X)
5000-50,000	0.1 to 10 (2X) and 1 to 10
50,000-500,000	0.1 to 10 (3X)

C.1.5 Based on the number and type of dilutions determined above, fill labeled liquid vials with diluent (0.01 N nitric acid) as follows:

- a. For 1 to 10 dilution use 9 ml of diluent
- b. For 0.1 to 10 dilution use 9.9 ml of diluent

C.1.6 Make all dilutions by pipetting 0.1 ml or 1 ml aliquots of sample directly into the appropriate prefilled liquid vial to give a final volume of 10 ml.

- ____ C.1.7 Cap and identify all vials.
- ____ C.1.8 Record the number and types of dilutions.
- ____ C.1.9 When a diluted sample reads less than 0.5 mrem/hr., wrap in clean plastic film and place in a clean plastic bag.
- ____ C.1.10 Take the sample to the Low Level Radiochemistry Lab, remove from bag and wrap in a second piece of clean plastic film.
- ____ C.1.11 Take sample to Counting Room for analysis.
- ____ C.1.12 Perform a quantitative isotopic analysis on the sample, decay correcting to the time of sampling.
- ____ C.1.13 Record: count date, time, geometry, and activity of those isotopes listed on the Data Sheet, Attachment D to this procedure.
- ____ C.1.14 As soon as Attachment D is completed, relay all data to the COORDINATOR.
- ____ C.1.15 Repeat Action Steps - C.1.2-C.1.10 to provide samples for boron, chloride, and pf analyses.
- a. Reference CH-CC-043, "Analytical Procedures for DR/EL-2 Portable Lab," to perform boron analysis.
 - b. Reference CH-CC-010, "Chloride - Silver Nitrate Turbidimetric Method", to perform chloride analysis.
 - c. Obtain a cursory determination of the pH of the sample.
- ____ C.1.16 Complete boron, chloride, and pH analyses and record all results on Attachment A to CH-GI-031, "High Purity Water Analyses Worksheet".
- ____ C.1.17 Notify the Coordinator of the results of the boron, chloride and pH analyses.

— C.1.18 Place the original sample plus all dilutions in a
lead brick storage cave in the Sample Prep Room.

REACTOR BUILDING SAMPLE STATION
EMERGENCY SAMPLING
DATA SHEET

Ref. Step
B.1.2a

SAMPLE SOURCE _____

TEAM MEMBERS _____

B.1.19 SAMPLE TIME _____ SAMPLE DATE _____

B.1.19 CONTACT DOSE RATE ON SAMPLE _____

C.1.0

SAMPLE	ORIGINAL	A	B	C	D	E	F
SAMPLE #							
DILUTION FACTOR	1						
DOSE RATE							

C.1.13 COUNT DATE/TIME _____ / _____ COUNT BY _____

GEOMETRY _____

ISOTOPE
131 I

ACTIVITY uCi/ml

Dose Equiv. I-131 _____ uCi/gm

137 Cs

PROCEDURE COVER SHEET

PENNSYLVANIA POWER & LIGHT CO. SUSQUEHANNA STEAM ELECTRIC STATION		EP-IP-042 Revision 2 Page 1 of 9
IN-PLANT AND EOF CHEMISTRY LAB EMERGENCY PREPARATION		
Effective Date <u>1-10-84</u>	Expiration Date <u>1-10-86</u>	
Revised Expiration Date _____		
PROCEDURE TYPE: PORC <input checked="" type="checkbox"/> , NON-PORC _____, Alternate Review _____		
PORC MTG. NO. <u>83-265</u> (If applicable)		

CONTROLLED

Prepared by <u><i>Jul Skrzyp</i></u>	Date <u>12-21-83</u>
Reviewed by <u><i>Raymond G. Dettler</i></u>	Date <u>12-22-83</u>
Recommended: <u><i>[Signature]</i></u> Section Head/Manager	Date <u>12/28/83</u>
<u><i>H. Keiser</i></u> Superintendent of Plant	Date <u>1-5-84</u>

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1.0 PURPOSE

The purpose of this procedure is to outline the steps to set-up the in-plant and EOF chemistry laboratory to handle potentially highly radioactive samples.

2.0 SCOPE

To provide the Chemistry Department with guidelines for preparing the SSES chemistry laboratories for receipt of potentially highly radioactive samples during Emergency Conditions.

3.0 REFERENCES

General Electric Post Accident Sample Station Manual

4.0 RESPONSIBILITIES

The CHEMISTRY SAMPLING TEAM is responsible for preparing the chemistry laboratories for the receipt of potentially highly radioactive samples in accordance with this procedure.

5.0 DEFINITIONS

None

6.0 INSTRUCTIONS

The CHEMISTRY SAMPLING TEAM will follow instructions in Attachment A, Action Step-CHEMISTRY SAMPLING TEAM.

ACTION STEP
CHEMISTRY SAMPLING TEAM - IN PLANT

A.1.0 The In-Plant CHEMISTRY SAMPLING TEAM will:

A.1.1 After briefing and assignment, report back to the in-plant chemistry laboratory.

NOTE: The In-Plant Chemistry Laboratory shall be monitored at all times during set-up and sample analysis. The EOF Chemistry Laboratory will be activated as the alternate analysis facility if:

- (1) Radiation levels exceed 500mR/hr in any part of the In-Plant Lab except the immediate area of the sample location, or
- (2) Background radiation levels are such that they would interfere with a gamma analysis, or
- (3) Laboratory power is lost.

For EOF chemistry laboratory activation, refer to Attachments C and D to this procedure. The EOF Laboratory will be activated if any one of the above conditions are met.

A.1.2 Obtain the following equipment in the in-plant chemistry laboratory:

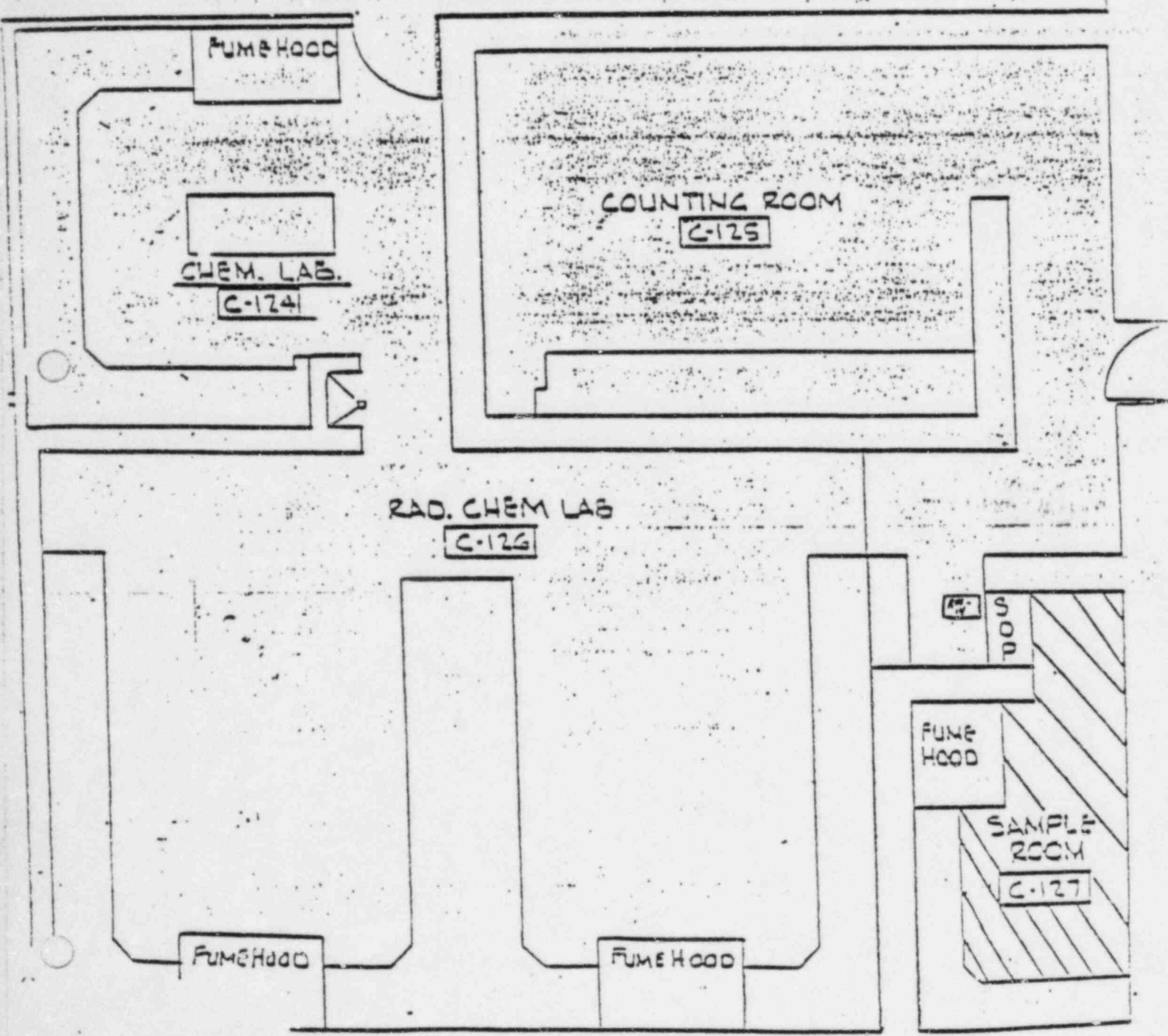
- A.1.2.1 Step-off pads.
- A.1.2.2 Kraft paper.
- A.1.2.3 Tape.
- A.1.2.4 Booties and Surgeons gloves.
- A.1.2.5 RM-14/HP-210 or equivalent.
- A.1.2.6 Lead Bricks.
- A.1.2.7 Receptacles for used protective clothing.

- A.1.3 A step-off pad shall be taped down at the location specified in Attachment B.
- A.1.4 Kraft paper shall be taped down to cover the entire floor of the Sample Preparation Room and as shown in Attachment B.
- A.1.5 Receptacles to hold used protective clothing shall be placed at each step-off pad.
- A.1.6 Surgical gloves and booties shall be available at the frisker located at the north door entrance to the chemistry laboratory.
- A.1.7 A shield of lead bricks shall be constructed in the Fume Hood of the Sample Preparation Room.
- A.1.8 All personnel and samples that are contaminated or potentially contaminated shall enter the chemistry laboratory through the NORTH door only.
- A.1.9 Before beginning any sample preparation, the appropriate supplies (gloves, dilution bottles, syringe, labels, etc) shall be assembled in the applicable Fume Hood.
- A.1.10 Emergency sample log and event log shall be initiated.

STEP OFF PAD

KRAFT PAPER

Attachment B
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ACTION STEP
CHEMISTRY SAMPLING TEAM - EOF

- C.1.0 The EOF CHEMISTRY SAMPLING TEAM will:
- C.1.1 After briefing and assignment, report to the EOF chemistry laboratory.
- NOTE: The EOF chemistry laboratory shall be monitored at all times during set-up and analysis.
- C.1.2 Obtain the following equipment in the EOF chemistry laboratory:
- C.1.2.1 Step-off pads.
 - C.1.2.2 Kraft paper.
 - C.1.2.3 Tape.
 - C.1.2.4 Booties and Surgeons gloves.
 - C.1.2.5 RM-14/HP-210 or equivalent.
 - C.1.2.6 Lead Bricks.
 - C.1.2.7 Receptacles for used protective clothing.
- C.1.3 A step-off pad shall be taped down at the location specified in Attachment D.
- C.1.4 Kraft paper shall be taped down to cover the entire floor of the Sample Preparation Room and as shown in Attachment D.
- C.1.5 Receptacles to hold used protective clothing shall be placed at each step-off pad.
- C.1.6 Surgical gloves and booties shall be available at the frisker located at the west door entrance to the chemistry lab at the EOF.
- C.1.7 A shield of lead bricks shall be constructed in the Fume Hood of the Sample Preparation Room.

- C.1.8 The sample(s) will be received from a plant team who is responsible for delivering them in a safe and expeditious manner.
- C.1.9 Before beginning any sample preparation, the appropriate supplies (gloves, dilution bottles, syringe, labels, etc) shall be assembled in the applicable Fume Hood.
- C.1.10 Emergency sample log and event log shall be initiated.

EOF CHEMISTRY LABORATORY

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