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TITLE: POST ACCIDENT SAMPLING - PCS LIQUID/GAS AND CONTAINMENT AIR

TRANSMITTAL: LISTED BELOW ARE NEW/REVISED PROCEDURES WHICH MUST BE IMMEDIATELY INSERTED INTO OR DISCARDED FROM YOUR PROCEDURE MANUAL.

Action Required	Section or Description
REMOVE AND DESTROY	EI-7.1, R/16, COVERSHEET AND TABLE OF CONTENTS, PAGES I-II DOCUMENT PAGES 1-4 AND 39-40
REPLACE WITH	EI-7.1, R/16, COVERSHEET AND TABLE OF CONTENTS, PAGES I-II DOCUMENT PAGES 1-4 AND 39-40 EDITORIAL

SIGN, DATE, AND RETURN THE ACKNOWLEDGEMENT FORM WITHIN 10 DAYS TO THE PALISADES PLANT DOCUMENT CONTROL.

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ATTACHMENTS

Attachment 1, "Jumpering CV-1910 and CV-1911 for PASM Sample"

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USER ALERT

CONTINUOUS USE PROCEDURE

Read each step of the procedure prior to performing that step. When sign-offs are required, sign off each step as complete before proceeding to the next step.

1.0 PERSONNEL RESPONSIBILITY

Operations Support Group Leader, with assistance of Operations Support Center Chemistry Supervisor, shall implement this procedure. In the absence of Operations Support Group Leader, the Site Emergency Director shall delegate this responsibility.

2.0 PURPOSE

This procedure details operation of Post Accident Sampling and Monitoring (PASM) System to provide the following during post accident conditions:

- a. PCS liquid sample (diluted or undiluted)
- b. PCS dissolved gas sample (diluted)
- c. Containment Atmosphere (diluted)
- d. Operation of PASM installed chemistry instrumentation:
 1. pH
 2. Dissolved Oxygen
 3. Gas Chromatograph (H₂ Analysis)

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3.0 **REFERENCES**

3.1 **SOURCE DOCUMENTS**

3.1.1 "Instrumentation Manual for Post Accident Sampling and Monitoring System Upgrade," Sentry Equipment Corp

e | 3.1.2 Technical Specifications Chapter 5, Section 5.5.3, "Post Accident Sampling Program"

3.2 **REFERENCE DOCUMENTS**

3.2.1 Emergency Implementing Procedure EI-7.0, "Emergency Post Accident Sampling Decision Process"

3.2.2 Emergency Implementing Procedure EI-7.2, "Emergency Post Accident Analysis"

3.2.3 Emergency Implementing Procedure EI-16.2, "Post-Accident Sample Monitoring System Supplies and Associated Equipment Checks"

3.2.4 Emergency Implementing Procedure EI-11.2, "Core Damage Assessment From Post Accident Sampling"

3.2.5 Chemistry and Radiological Services Department Policy and Practice 98-003 (Rev 0), "Communication Expectations for PASM"

4.0 **INITIAL CONDITIONS AND REQUIREMENTS**

4.1 **RADIOLOGICAL REQUIREMENTS AND PRECAUTIONS**

4.1.1 **Dosimetry Requirements**

- a. As dictated by OSC Health Physics Supervisor.
- b. Individuals handling samples shall wear ring TLDs on one finger of each hand.

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4.1.2 **Anti-Contamination Clothing Requirements**

- a. As dictated by OSC Health Physics Supervisor.
- b. OSC Health Physics Supervisor shall dictate when additional hand protection (eg, lineman's gloves or heavy rubber gloves) is required for individuals requiring direct contact with samples.

4.1.3 Unless authorized by Site Emergency Director, sampling where general area dose rates exceed 10rem/hr shall not be performed.

4.1.4 When not needed, samples shall be stored in shielded or remote locations.

4.1.5 While performing this procedure make a conscious effort to maintain your exposure ALARA. When possible, withdraw to an area of lower dose rate (eg, during flushing or purging operations of greater than 2 minutes duration).

4.1.6 Once the decision has been made to sample, the sample must be obtained and analyzed within three hours.

4.2 **GENERAL REQUIREMENTS AND PRECAUTIONS**

4.2.1 If problems are encountered operating PASM Panel, contact OSC Chemistry Supervisor before proceeding.

4.2.2 CV-1910 and CV-1911 close on Containment high radiation or high pressure. In this situation, these valves will have to be jumpered open per Attachment 1 of this procedure, "Jumpering CV-1910 and CV-1911 for PASM Sample," in order to obtain PCS samples.

4.2.3 CCW Valve SV-944A closes on a Safety Injection Signal (SIS). This secures cooling to the sample coolers. This valve will need to be reopened by the Control Room prior to obtaining a PCS Hotleg or LPSI sample from the panel.

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5.0 PROCEDURE

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Read each step of the procedure prior to performing that step. When sign-offs are required, sign off each step as complete before proceeding to the next step.

NOTE: Steps in this procedure can be N/A'ed with OSC Chemistry Supervisor's approval.

5.1 PRESAMPLING SURVEYS

5.1.1 OSC Chemistry Supervisor requests OSC Health Physics (HP) Supervisor for performance of dose rates and/or air sample surveys of the following areas:

- a. PASM Room 233
- b. NSSS Sample Panel Room
- c. Nitrogen Bottle Rack Area
- d. Hall to Chemistry Hot Lab
- e. Chemistry Hot Lab
- f. Count Room
- g. Chemistry Grey Lab

**PALISADES NUCLEAR PLANT
EMERGENCY IMPLEMENTING PROCEDURE**

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CHECK

- 5. Rotate MV-1930 (V-15) CCW to 9 o'clock to close. _____
- 6. Rotate MV-1932 (I-3) CCW to 6 o'clock. _____
- 7. Wait five minutes. _____
- 8. Rotate MV-1933 (F-2) CCW to 3 o'clock to close. _____

d. Standby mode

At EC-168 Panel, place system in standby by rotating SV-2424A and SV-2424B to closed. PL-1920 (red) lamp should be "OFF." _____

- e. Have OSC Chemistry Supervisor contact Main Control Room to close SV-2412A, SV-2412B, SV-2414A, and SV-2414B. _____

5.12 PASM SHUTDOWN

- 5.12.1 Close all N₂ cylinder valves. _____

NOTE: When N₂ header pressure drops below 90 psig, an alarm should annunciate at EC-168.

- 5.12.2 Bleed off N₂ pressure, Rotate MV-1906 (E-13) CW to 12 o'clock until PI-1904 reads 0 psig. _____

- 5.12.3 Rotate MV-1906 (E-13) CCW to 9 o'clock. Silence low nitrogen pressure alarm at EC-168 Panel. _____

- 5.12.4 Close MV-1949 (W-15) demin water inlet valve. _____

- 5.12.5 Close HS-1929 (EC-168 Panel). _____

- 5.12.6 Close HS-1930 (EC-168 Panel). _____

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- | | <u>CHECK</u> |
|--|--------------|
| 5.12.7 Place control switch CS-5057 (NSSS Panel below HS-1901) to "OFF" position to close CV-1903. | _____ |
| 5.12.8 Notify Control Room of impending PASM trouble alarm due to securing the panel. | _____ |
| 5.12.9 Place SS-0210 and SS-0211 in the OFF position. | _____ |
| 5.12.10 To disable the alarm function for TIS-1901, perform the following: | _____ |
| a. If the Green LED is not lit, push A/M touch pad to enter the Manual Mode (Green LED on). | _____ |
| b. Push triangular touch pad until output equals 100.0. | _____ |
| 5.12.11 Notify OSC Chemistry Supervisor sampling is complete. | _____ |
| 5.12.12 Unless instructed otherwise, return to your assembly area. | _____ |
| 5.12.13 OSC Chemistry Supervisor shall notify TSC Chemistry Team Leader when sampling is complete. | _____ |

NOTE: If this sampling procedure was not performed under emergency conditions, perform PI 1900 pressure check and CV 1910 and CV 1911 weekly leak rate checks as required by COP-1.

6.0 **ATTACHMENTS**

6.1 Attachment 1, "Jumpering CV-1910 and CV-1911 for PASM Sample"

7.0 **SPECIAL REVIEWS**

None

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