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Date Entered: Jan 12, 2001

TO: USNRC/WASHINGTON  
JMCKNIGHT Copy Number: 145

TRANSMITTAL NUMBER: 173265

PROCEDURE NUMBER: EI-7.1

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 DOCUMENT PAGES 1-2 AND 5-6           |
| REPLACE WITH       | EI-7.1, R/16, COVERSHEET AND DOCUMENT PAGES 1-2 AND 5-6 EDITORIAL |

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

SIGNATURE OR INITIALS

DATE

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**PALISADES NUCLEAR PLANT**  
**EMERGENCY IMPLEMENTING PROCEDURE**

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

 1/10/01  
Procedure Sponsor Date

TEShewmaker 4/21/00  
Technical Reviewer Date

MTLee 4/21/00  
User Reviewer Date

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AND CONTAINMENT AIR**

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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 (H<sub>2</sub> 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

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"

e | 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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- 5.1.2 OSC HP Supervisor shall ensure:
- a. Stay times are computed for ALL individuals required to work in High Radiation areas as surveyed in Step 5.1.1.
  - b. HP coverage at sample panels and in labs is commensurate with dose rates and may include:
    1. Monitoring dose rates at and around sample panels during all sample acquisition activities.
    2. Continuous air sampling at sample panels and in labs during sample analysis.
- 5.1.3 If applicable areas are accessible, the OSC Chemistry Supervisor will dispatch two, two-person Chem Tech Teams (with HP coverage, as dictated by OSC HP Supervisor) to:
- a. PASM Panel
  - b. Analysis Station including:
    1. Hot Lab
    2. High Level Count Room
    3. Chemistry Grey Lab
- NOTE:** Low Level Count Room is an alternate analysis location for High Level Count Room.
- 5.1.4 OSC Chemistry Supervisor shall determine PASM Panel set up as determined using Emergency Implementing Procedure EI-7.0, "Emergency Post Accident Sampling Decision Process."
- 5.1.5 Ensure there are no unexpected alarms locked in on the EC-168 alarm panel. If an unexpected alarm is present, contact the OSC Chemistry Supervisor.

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**5.2 PASM PANEL PREPARATION**

5.2.1 As each step of this procedure is completed, it shall be "CHECKED OFF" (✓) in the space provided in the right-hand margin. If a step is not to be completed, enter "N/A" rather than a check.

5.2.2 In PASM area: ACRONYMS:

CCW - counterclockwise

CW - clockwise

- a. One Chem Tech operates PASM Panel valves and controls per this procedure.
- b. Other Chem Tech reads aloud procedural steps herein, including the component coordinates when necessary to aid the operator, and operates Panel EC-168.
- c. When two technicians are working as a team to perform PASM sampling, communication should consist of the following three-way format:
  1. The verbal message is given.
  2. The message is repeated back.
  3. Acknowledgment of the correct repeat-back is given.
- d. This procedure may be performed by one technician utilizing a working copy of the procedure and checking off each step as it is performed.

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