

Nuclear Power Business Unit
RADIATION WORK PERMIT

COPY

Revision: 0

RWP Number: 04-104

Controlling Work Document: Various RG 1.16 Class: 2 Estimated Dose: 6.000 Rem

Job Title: RP Coverage

Job Location: PAB and U-1 CTMT

Job Description: Support Duties for RP.

Radiological Assessment of Work

Significant increase in radiation levels is likely? Yes No Reason: _____
Significant increase in contamination levels is likely? Yes No Reason: _____
Potential for internal dose? Yes No Reason: _____


RWP Tasks

- Task 1: RP Outage Activities
- Task 2:
- Task 3:
- Task 4:
- Task 5:
- Task 6:
- Task 7:
- Task 8:
- Task 9:
- Task 10:
- Task 11:
- Task 12:

RWP Review and Approval

Prepared By: CD 02-24-04
Initials Date

ALARA Review By: _____ ALARA Review No.: N/A _____
Initials Date

Approved By:  3-28-04
RP Supervisor Date

Terminated By: _____
RP Supervisor Date

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 5
FOIA/PA-2004-0282

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TASK 1: RP Outage Activities

Radiation Protection personnel are authorized to suspend work activities in the event of a change in job scope, changes in radiological conditions, or a failure of personnel working under the RWP to abide by the RWP conditions.

Stop Work Dose Rate: 10,000 mR/hr ED Dose Rate Alarm: 804 mR/hr ED Dose Alarm: 100 mrem

Radiation Protection Hold Points: N/A

No entry to areas posted VHRA and areas affected by radiography

Personnel entering Locked high radiation areas whose radiation levels are affected by the transfer of spent fuel assemblies during refueling evolutions shall establish radio communications with the core load supervisor or DSS. The core load supervisor or DSS will authorize entry into the area only when fuel is not being moved through the fuel transfer tube. Personnel will be notified when fuel is to be moved through the fuel transfer tube and must immediately exit the area until authorized to reenter. Personnel entering the area are to notify the authorizing individual upon job completion and exit from the area.

When accessing an LHRA the key user must notify RP supervision prior to the entry and immediately upon completion of the entry. The key user is required to have a concurrent check of the gate/door lock.

Authorized Radiological Work Areas: Any RWP permits entry into RCA(s), RMA, and RA.

- HRA LHRA VHRA Cmt, Reactor Critical
 CA HCA HPCA Airborne Radioactivity Area

Expected Radiological Conditions: Data From: Current Survey Historical Data Estimated

Radiation: GA <2 to 4000 mrem/hr Contact: 20 to 7000 mrem/hr

Contamination: 300 to 320 k dpm/100 cm² Internal Contamination: 300 to >1E6 dpm/100 cm² (estimated)

Airborne Radioactivity: <.1 DAC P I₂ NG ³H (Estimated / Actual DAC)

RP Job Coverage: Routine Direct Start of Job System Breach Pre-Job Briefing Required

Special Instructions: Provide job coverage in accordance with applicable RP procedures.

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Radiological Survey Requirements:

A. Radiation: Prior to/Start of Work System Breach Other

Special Instructions: As per RP

B. Contamination: Prior to/Start of Work System Breach Other

Special Instructions: As per RP. Hot Particle checks as necessary.

C. Airborne: Prior to/Start of Work System Breach Other

Special Instructions: As per RP

III. Dose Assessment: TLD and EPD required.

Special Instructions: Timekeeping required when working in a dose rate >1500 mR/hr and the worker could receive more than 25 mrem.

IV. Protective Clothing

Coveralls, Booties, Rubber Totes and Rubber Gloves (Minimum requirements for entering CTMT)

Labcoat, Booties, and Rubber Gloves may be used only with RP permission.

Coveralls, Double Booties or Booties and Rubber Totes/Boots, and Double Rubber Gloves.

Double coveralls, Double Rubber gloves, Double Booties, Rubber Totes/Boots.¹

Plastic suit, Double Rubber Gloves, Double Booties, Rubber Totes/Boots.¹

Surgeon's Gloves may be substituted for Rubber Gloves with RP permission.

Hood and Face Shield required.

Other: See Special Instructions

¹ Safety review may be required for additional coveralls or plastics.

Special Instructions: Extra outer shoe covers and gloves required for upper cavity, PZR, RCP, and loop areas. Remove outer shoe covers and gloves upon exiting these areas.
Additional protective clothing may be required based on initial surveys.
Work gloves may be substituted for outer rubber gloves.

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V. Respiratory Protection: N/A TEDE ALARA Review:

Special Instructions: Additional requirements as per RP Supervision.

VI. Engineering Controls: N/A

Special Instructions: _____

VII. ALARA Requirements:

See ALARA Review

LDWA: Various

Special Instructions: Foreign debris found within the refueling cavity, spent fuel pool, S/G Channelhead, or primary systems may be highly radioactive and shall not be handled without RP permission.

- When working in these areas or handling equipment from these areas (such as refueling tools), workers shall monitor at least every two hours.
- Contact RP immediately if, during monitoring of protective clothing, the worker discovers >10,000 cpm above bkg using a open window beta instrument.

Contact RP immediately if, during monitoring of skin, personal clothing, or modesty garments any contamination above bkg is discovered.

Ex. 5