



# HANFORD RADIOLOGICAL WORK PERMIT

RWP Number  
300-00-GF1 Rev. 0

Technical Document Number(s)  
See SI # 5 (RWP Work Document Requirements). RCP3.4.04

Start Date  
9/20/00

End Date  
9/20/01

Responsible Organization  
Facility & Operations, Government Facilities, D7951

General-----[]  
Job Specific -----[X]

Job Location  
Facilities that are the Government Facilities Core Team

Job Description:  
Perform maintenance, calibration and repair on equipment that is associated with breaching contaminated or potentially contaminated systems.

Primary Isotope(s): [X] --MFP and/or MAP [] --- Cs [] --- Sr [] --- H-3 [] --- U [] --- Pu [X] -- Other See SI # 5

| RADIOLOGICAL CONDITIONS                           | Current       |               | Anticipated  |              | Limiting Conditions |
|---------------------------------------------------|---------------|---------------|--------------|--------------|---------------------|
|                                                   | General Area  | Maximum       | General Area | Maximum      |                     |
| Whole Body Dose (mrem/h)                          | See SI #3     | See SI #3     | < 0.5        | < 5          | < 5 or < 100 in RA  |
| Extremity Dose (mrem/h)                           | See SI #3     | See SI #3     | < 0.5        | < 100        | < 200               |
| Removable Contamination (dpm/100cm <sup>2</sup> ) | See SI #3 α   | See SI #3 α   | < 20 α       | < 200 α      | < 2,000 α           |
|                                                   | See SI #3 β-γ | See SI #3 β-γ | < 1,000 β-γ  | < 10,000 β-γ | < 100,000 β-γ       |
| Airborne Radioactivity (DAC)                      | < 0.1         |               | < 0.1        |              | < 0.1               |

### REQUIREMENTS

Internal Dosimetry Requirements  
Annual Whole Body Count

Radiological Worker Training Required I --- [] II --- [X] Positive Access Control REQUIRED Daily

| ACTIVITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | SPECIAL INSTRUCTIONS (SI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>a <u>Entry into Contamination Area Fume Hood or Bench Top to work with contaminated or potentially contaminated systems</u><br/>Continuous RCT Coverage / Hanford TLD / Supplemental Dosimeter / Lab Coat / Surgical Gloves</p> <p>b <u>Entry into Contamination Area to work with contaminated or potentially contaminated systems</u><br/>Continuous RCT Coverage / Hanford TLD / Supplemental Dosimeter / Full Set of PCs</p> <p>c <u>Entry into Radiation Area Contamination Area Fume Hood or Bench Top to work with contaminated or potentially contaminated systems</u><br/>Continuous RCT Coverage / Hanford TLD / Supplemental Dosimeter / Lab Coat / Surgical Gloves</p> <p>d <u>Entry into Radiation Area, Contamination Area to work with contaminated or potentially contaminated systems</u><br/>Continuous RCT Coverage / Hanford TLD / Supplemental Dosimeter / Full Set of PCs</p> | <ol style="list-style-type: none"> <li>Perform a hand, arm, and upper torso survey for alpha and beta-gamma contamination periodically when working with contaminated or potentially contaminated systems. Also, perform a whole body survey for alpha and beta-gamma contamination upon completion of work with a system or when exiting an area.</li> <li>Perform grab air sampling when breaching contaminated or potentially contaminated systems</li> <li>Contact a RCT for current radiological conditions before entering an area.</li> <li>Any Industrial Hygiene requirements shall be placed in the F&amp;O work document.</li> </ol> <p style="text-align: center;"><b>RWP Work Document Requirements</b></p> <p>5. Radiological Engineering and the RCT Supervisor shall approve F&amp;O work documents used in conjunction with this RWP before work will start. If system contains material other than MAP/MFP contact the Dosimetry Engineer for Review. The specific RWP Activity(s) will be listed on the work document. A log of approved work documents will be kept with the RWP controlled by the RWP Records Custodian.</p> <p style="text-align: center;"><b>RCT WORK SCHEDULING</b><br/>Work scheduling for an RCT is located on Netscape at: <a href="http://pnl6/rct">http://pnl6/rct</a></p> |

ALARA Pre-job Briefing: YES [] NO [X]  
ALARA Post Job Review Required YES [] NO [X]  
ALARA ALARA Review Number: N/A

For off shift RCT coverage contact the RC Duty Supervisor at 376-2244, or page 546-6298. Emergencies, contact Battelle Emergency at 375-2400.

|                                              |                        |                   |                                       |
|----------------------------------------------|------------------------|-------------------|---------------------------------------|
| RWP Prepared By: Forrest Bronson             |                        | Phone: 372-2152   | RCT Phone: See Above to schedule work |
| Line Management<br>PJ GAITHER                | <i>Paul J. Gaither</i> | Phone<br>376-7012 | Date<br>9-21-2000                     |
| Radiological Control Supervisor<br>SR BIVINS | <i>[Signature]</i>     | Phone<br>376-9492 | Date<br>9-21-2000                     |
| Radiological Control Supervisor<br>TD EATON  | <i>[Signature]</i>     | Phone<br>376-3155 | Date<br>9-21-00                       |