### Aiken Technical College
Radiation Protection Technology Program

**Radiation Work Permit**

(For Training Purposes Only—No Actual Hazards Exist)

- General RWP
- Specific RWP

<table>
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<tr>
<th>Task # 7</th>
<th>Conduct Investigations of Abnormal Radiological Conditions</th>
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**Purpose:** RP Personnel only

**Investigation of Abnormal Radiological Conditions**

**RWP#:** 201X-243

**Rev:** 0

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<tr>
<th>Estimated Person-Hours</th>
<th>Effective Dose Rate</th>
<th>Estimated Person-Rem</th>
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<tbody>
<tr>
<td>40</td>
<td>15 mr/hr</td>
<td>0.600</td>
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#### Expected Radiological Conditions

- **General Area Dose Rates:** 5—1000 mr/hr
- **Highest Contact Dose Rates:** 100 R/hr
- **Contamination Levels:**
  - $\beta\gamma$: $< 1000 \cdot 10,000$ dpm/100cm$^2$
  - $\alpha$: $< 20$ dpm/100cm$^2$
- **Airborne Radioactivity:**
  - $\beta\gamma$: none detected
  - $\alpha$: none detected

#### Dosimetry Requirements

- **EAD**
- **Whole Body TLD**
- **Extremity TLDs:**
  - Multiple TLD Pack:
  - Other:

- **EAD Alarm Set Points:**
  - **Dose Alarm:** 50 mrem
  - **Dose Rate Alarm:** 100 mrem/hr
  - **Stay Time Alarm:** 60 minutes

#### RP Job Coverage

- **None Required**
- **Full Coverage**
- **Part Time Coverage:**
- **Other:** Only RPT Students are permitted to use this RWP
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Protective Clothing Requirements

- None Required
- Partials consisting of: shoe covers and 2 pair of vinyl gloves
- Full Set: Cloth: □ Plastic: □ Paper: □ with extra: gloves
- Double Set: Cloth: □ Plastic: □ Paper: □ with extra:
- Other: PCs based on posted or anticipated conditions

Respiratory Protection Requirements

- None Required
- Full Face Negative Pressure Respirator with: □ Particulate □ Iodine □ Other:
- Other: Respiratory protection maybe required depending on the in-plant indications requiring investigation.

Contamination Control Requirements

Remove all PC prior to exiting across a step-off pad
Perform a hand, face, and foot frisk upon leaving the posted RCA
Frisk all material which has been in a CA prior to removal from the posted RCA
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RP Hold Points

Dose rates cause an alarm on the EAD dose alarm
Opening any contaminated system is not permitted
Airborne or potential airborne radioactivity

Stop Work Criteria

Dose rates exceed 2000 R/hr
Dose alarm on the EAD
Dose rate rate of increase indicates a rapidly escalating event
Excessive leakage of radioactive fluids

Additional Requirements

LHRA entries are permitted on this RWP after the entering personnel are briefed by an RP Supervisor on the specific area and the key for that area has been checked out.