NOTE: Any yellow text shading or red text annotations have been added by ORNL Subject Matter Experts (SMEs). The annotations have been made in order to document (1) certain Forest Service requirements that have been waived or (2) where some requirements for the ORNL participants have been clarified or established within the ORNL Research Safety Summary (RSS) instead. The RSS 7728 is the work control document that governs the ES&H the activities/actions of the ORNL participants doing work at the Marcell Experiment Station.

### JOB HAZARD ANALYSIS (JHA)

**References:** FSH 6709.11 and -12 (Instructions on Reverse)

<table>
<thead>
<tr>
<th>U.S. Department of Agriculture Forest Service</th>
<th>1. WORK PROJECT/ACTIVITY</th>
<th>Personal Safety</th>
</tr>
</thead>
<tbody>
<tr>
<td>2. LOCATION</td>
<td>Grand Rapids MN</td>
<td></td>
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<tr>
<td>RWU 4101/4351</td>
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</tbody>
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### 7. TASKS/PROCEDURES

#### Awareness

- Making mistakes that may lead to accident/injury

#### Protection and Security

- Random Acts of Violence

#### Personal Protection Equipment (PPE)

- Accident/injury

#### Human confrontation

- Angry or violent individuals

### 8. HAZARDS

- A. Listen For The Alarm (L.F.T.A.) We often receive a subtle, internal warning about an unsafe act before an incident occurs. Tune in to this warning, often manifested as an uneasy feeling or idea that something is wrong. This feeling is diminished when we repeat an unsafe act many times without consequences. It is also diminished when we are in such a hurry or are so preoccupied that the matter distracts us from feeling different when faced with an unsafe situation. Listen For The Alarm and heed the warning the first time! Slow down and remain focused on the task at hand.

- B. Step Back, Think, Organize, Proceed (S.T.O.P.) Step back and consider all aspects of the job. Think about what you are about to do. Organize the job and co-workers to insure quality and quantity of task accomplishment. Proceed in a determined effort to accomplish given tasks in a safe manner.

#### ORNL SME: This is USFS terminology not available/provided to ORNL. Use integrated safety management concepts in planning and performing your work.

- A. Review and learn the ten standards of personal safety.

#### Protection and Security

- Random Acts of Violence

#### Personal Protection Equipment (PPE)

- Accident/injury

#### Human confrontation

- Angry or violent individuals

### 9. ABATEMENT ACTIONS

- Engineering Controls * Substitution * Administrative Controls * PPE

#### ORNL SME: Per 9-8-09 email from R. Kolka (USFS)-Buddy System is not required and a “sign Out” protocol does not exist. Instead, use the field communication controls in RSS Question 16.0.

#### Use clothing and equipment appropriate for the job:

- At a minimum, field work requires long sleeved shirts, long cuffless pants, leather boots.

#### ORNL SME: Instead, see RSS LAST Question for requirement to wear long pants and foot protection and guidance for shirt selection.

### 10. LINE OFFICER SIGNATURE

### 11. TITLE

### 12. DATE

(over)