### Jobs Safety Analysis (JSA)

<table>
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<tr>
<th>JOB/ACTIVITY NAME: Alignment Network Monument Relocation</th>
<th>JSA #:</th>
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<tr>
<td>DEPARTMENT/GROUP NAME MET / AEG</td>
<td>BLDG/AREA LOCATION(s): LCLS / NEH3</td>
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<td>OTHER INFORMATION:</td>
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#### REQUIRED PERSONAL PROTECTIVE EQUIPMENT FOR ENTIRE JOB

- [ ] Safety glasses
- [ ] Safety shoes
- [X] Chemical resistant gloves
- [X] Other reflective vest
- [X] Other flashlight
- [X] Chemical goggles
- [X] Hard hat
- [ ] Welding gloves
- [ ] Face shield
- [ ] Harness lanyard
- [X] Gloves when handling tools
- [X] Other long pants / sleeves
- [ ] Other _______________
- [ ] Welding goggles
- [ ] Hearing protection when drilling

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### Basic Steps

#### Install New Monuments

- Drilling new monuments using power tools such as a hammer drills
- Install new monuments; grout on floor; anchors on wall

#### Potential Hazards

- Particles flying into eyes
- Noise
- Exposure to electrical energy

#### Controls

- Hearing protection while drilling
- Inspect hand or power tools and cords before use
- Inspect power cords for any defects and use GFCIs (never daisy chain cords)

#### Set Up Equipment and Targeting

- Set up survey instruments (includes Class 2 or 3R laser instruments)
- Place targets on and around components including magnets
- Plug in instruments
- Use illumination if necessary

#### Potential Hazards

- Falling off ladders
- Exposure to electrical energy

#### Controls

- Full PPE is required (see checklist above)
- Inspect ladders before use and never climb to the top rungs
- Inspect hand or power tools and cords before use
- Inspect power cords for any defects and use GFCIs (never daisy chain cords)

#### Perform Survey

- Make measurements

#### Potential Hazards

- Falling off ladders when moving targeting
- Exposure to electrical energy
- Injuries from using hand-tools improperly including cuts, eye injuries or electrical shock

#### Controls

- Full PPE is required
- Do not stare continuously at a laser instrument (Class 2 lasers are safe due to natural blink reflex and Class 3R are safe with restricted beam viewing)
- Inspect ladders before use and never climb to the top rungs
I understand & will adhere to the steps, hazards & controls as described in this JSA. I understand that performing steps out of sequence may pose hazards that have not been evaluated, nor authorized. I will contact my supervisor prior to continuing work, if the scope of work changes or new hazards are introduced. I understand I have the authority and responsibility to stop work I believe to be unsafe.

Worker Name (please print)  Signature  Date

________________________________________  __________________________________________  __________________________

________________________________________  __________________________________________  __________________________

________________________________________  __________________________________________  __________________________

I have reviewed the steps, hazards & controls described in this JSA with all workers listed above and authorize them to perform the work. Workers are qualified (i.e. licensed or certified, as required & in full compliance with SLAC training requirements) to perform this activity.

Supervisor  Signature  Date

________________________________________  __________________________________________  __________________________

I have communicated area hazards with the supervisor or listed worker(s) for this activity and have coordinated the described activity with affected occupants. The above listed workers are released to perform described scope of work in the following area(s):

________________________________________  __________________________________________  __________________________

________________________________________  __________________________________________  __________________________

Area or Building Manager  Signature  Date