**This AHA is provided as an example of content to consider during development of project-specific AHAs for like activities**

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| **Activity**:  Work in control panel fed by energized 120V circuit in accordance with NFPA 70E |

| **HAZARDS** | | |
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| *JOB STEP* | *HAZARDS* | *ACTIONS TO ELIMINATE OR MINIMIZE*  *EACH HAZARD* |
| 1. Identify circuits | 1. Interference with other activities 2. Human error | 1a. Inform affected users of planned panel outage.  1b. Verify that efforts have been coordinated.   1. Mark or flag equipment and breakers that will be part of outage. |
| 1. Barricade energized electrical work area at electrical equipment | 1. Unauthorized entrants to within the arc flash and/or limited approach boundary | 1a. Use red danger tape and stanchions (or similar) to encircle the panel at the limited approach boundary.  1b. Position a worker outside of the physical barrier to also stand guard.  1c. Allow no one inside of the physical barrier who is not on the electrical team and who is not wearing the required shock PPE that is identified for the task per the electrical risk assessment. |
| 1. Open electrical equipment | 1. Electric shock 2. Falls | 1a. Wear shock PPE that is identified for the task per the electrical risk assessment.  1b. Remove any conductive material from the top and sides of the electrical panel before opening the electrical panel.  1c. Use insulated tools to remove bolts and screws from panel cover.  2a. Keep work area cleared of debris and other tripping hazards.  2b. Use two people to remove large panel covers.  3. Use safe ladder practices, including: Always inspect ladder before each shift. Ensure all four legs are stable before climbing ladder. Use three points of contact when ascending or descending. No metal ladders. (see Ladders AHA) |
| 1. Work in panel on circuits <50V | 1. Human error and Electrical failure | 1a. Install equipment according to specifications.  1b. Use insulated tools.  1c. Leave no loose/spare parts inside or on top of panel. |
| 1. Close electrical equipment | 1. Trips, cuts, bruises, strains 2. Falls 3. Electric shock | 1a. Keep work area cleared of debris and other tripping hazards.  1b. Use two people to install large panel covers.  2. Use safe ladder practices, including: Always inspect ladder before each shift. Ensure all four legs are stable before climbing ladder. Use three points of contact when ascending or descending. No metal ladders. (see Ladders AHA)  3. Ensure that panel cover is securely in place. |