Energized work shall only be permitted where the Requestor, Department Safety Manager, and Zone Facility Manager or equivalent can demonstrate;

- De-energizing introduces additional hazards or increased risk, e.g. interruption of life support equipment, deactivation of emergency alarm systems, shutdown of hazardous location ventilation equipment.
- The task to be performed is infeasible in a de-energized state due to equipment design or operational limitations, e.g. Diagnostics and testing (for example, start-up or troubleshooting) of electric circuits that can only be performed with the circuit energized and work on circuits that form an integral part of a continuous process that would otherwise need to be completely shut down in order to permit work on one circuit or piece of equipment.

**Exemptions:** The *Energized Electrical Work Permit* (HS6F_001) is not required if a qualified person utilizes appropriate safe work practices and personal protective equipment (PPE) under any of the following conditions;

- Performing testing, troubleshooting and voltage measuring.
- Thermography and visual inspections if restricted approach boundary is not crossed.
- Access to and egress from an area with energized electrical equipment if no electrical work is performed and the restricted approach boundary is not crossed.
- General housekeeping and miscellaneous non-electrical tasks if the restricted approach boundary is not crossed.

**Instructions:** All fields in PART 1 through PART 4 are to be answered, completed or noted as not applicable (NA) by the required person as noted in each PART’s header. Contact EHS with questions at 255-8200 or AskEHS@cornell.edu

### PART 1: TO BE COMPLETED BY THE REQUESTER AND ELECTRICALLY QUALIFIED (EQ) PERSON.

<table>
<thead>
<tr>
<th>Work Order:</th>
<th>Location (Building/Room):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description of circuit, and equipment:</td>
<td></td>
</tr>
<tr>
<td>Description of work task to be performed:</td>
<td></td>
</tr>
<tr>
<td>Justification of why the circuit and or equipment cannot be de-energized or the work deferred until the next scheduled outage:</td>
<td></td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
</tr>
<tr>
<td>Requester Name Print/Sign:</td>
<td>/</td>
</tr>
</tbody>
</table>

### PART 2: TO BE COMPLETED BY THE EQ PERSON(S) PERFORMING THE WORK TASK.

<table>
<thead>
<tr>
<th>Detailed procedure for work task (Attach other applicable procedures, instructions or guidance documents to permit)</th>
<th>Potential hazards of the work task(s)</th>
<th>Safe work practices and controls to eliminate or control the potential hazards?</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td></td>
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<tr>
<td>2.</td>
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<td>3.</td>
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<td>4.</td>
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<tr>
<td>5.</td>
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</tbody>
</table>
ENERGIZED ELECTRICAL WORK PERMIT

6. System Voltage and Approach Boundaries to Energized Equipment *(NFPA 70E Table 130.4 (D))*

<table>
<thead>
<tr>
<th>Voltage Range</th>
<th>Limited Approach Boundary</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; 50 V</td>
<td>Conductor Movable: Not Specified</td>
</tr>
<tr>
<td>50 V – 150 V</td>
<td>10 ft.</td>
</tr>
<tr>
<td>151 V – 750 V</td>
<td>10 ft.</td>
</tr>
<tr>
<td>751 V – 15 kV</td>
<td>10 ft.</td>
</tr>
<tr>
<td>751 V – 15 kV</td>
<td>10 ft.</td>
</tr>
<tr>
<td>36.1 kV – 46 kV</td>
<td>10 ft.</td>
</tr>
<tr>
<td>46.1 kV – 72.5 kV</td>
<td>10 ft.</td>
</tr>
<tr>
<td>72.6 kV – 121 kV</td>
<td>10 ft. 8 in.</td>
</tr>
</tbody>
</table>

*For single phase systems above 250V, select the range that is equal to the system’s maximum phase-to-ground voltage multiplied by 1.732 inch.

**Means to restrict access of unqualified persons** (select all that apply):
- Attendant
- Barrier (Danger tape and stanchions)
- Electrical Hazard Signage
- Locked Access
- Other______________________________

**Available Incident Energy at the working distance or Arc Flash PPE Category:**
- Arc Flash Boundary:

*Contact IPP’s Facilities Engineering to complete this section if HS6_ESWP_GD_006 (Task Hazard Risk Category Chart: AC and DC) is not applicable or if Arc Flash Risk Assessment has not been performed or expired.

**Personal Protective Equipment:** Qualified employees entering the Arc Flash Boundary are required to wear applicable PPE from below.

- **PPE Category 1**
  - Arc-rated clothing minimum arc rating of 4 cal/cm²
    - Arc-rated long-sleeve shirt and pants or arc-rated coverall
    - Arc-rated face shield or arc flash suit hood
    - Arc-rated jacket, parka, rainwear or hard hat liner as needed for weather
    - Hard hat
    - Safety glasses or goggles
    - Hearing protection: ear canal inserts
    - Rubber insulating gloves with leather protectors
    - EH rated footwear

- **PPE Category 2**
  - Arc-rated clothing minimum arc rating of 8 cal/cm²
    - Arc-rated long-sleeve shirt and pants or arc-rated coverall
    - Arc flash suit hood or arc-rated face shield and arc-rated balaclava
    - Arc-rated jacket, parka, rainwear or hard hat liner as needed for weather
    - Hard hat
    - Safety glasses or goggles
    - Hearing protection: ear canal inserts
    - Rubber insulating gloves with leather protectors
    - EH rated footwear

- **PPE Category 3**
  - Arc-rated clothing so that the system arc rating meets the required minimum arc rating of 25 cal/cm²
    - Arc-rated long-sleeve shirt and pants or arc-rated coverall
    - Arc-rated face shield or arc flash suit hood
    - Arc-rated jacket, parka, rainwear or hard hat liner as needed for weather
    - Hard hat
    - Safety glasses or goggles
    - Hearing protection: ear canal inserts
    - Rubber insulating gloves with leather protectors
    - EH rated footwear

- **PPE Category 4**
  - Arc-rated clothing so that the system arc rating meets the required minimum arc rating of 40 cal/cm²
    - Arc-rated long-sleeve shirt and pants or arc-rated coverall
    - Arc-rated face shield or arc flash suit hood
    - Arc-rated jacket, parka, rainwear or hard hat liner as needed for weather
    - Hard hat
    - Safety glasses or goggles
    - Hearing protection: ear canal inserts
    - Rubber insulating gloves with leather protectors
    - EH rated footwear

*No synthetic material clothing, jewelry or other metal objects shall be worn or carried when performing energized electrical work or within the limited approach boundary.

**Other Controls, Equipment, or Tooling:**
- Insulated Hand Tools
- Fuse Puller
- Multi-Meter
- Voltage Tester
- Static Discharge Stick
- Hot Switch Stick
- Operating Rod/Clampstick
- Rescue Hook
- Grounding Set
- Ropes and Hand Lines
- Arc-Flash Protection Barriers/Shields
- Insulated Blanket
- Blanket Clamps
- Insulated Mat
- Power Line Hose and Covers
- Other: _________________________

Do you agree the work task described above can be done safely? [ ] YES [ ] NO (If NO, contact EHS)

EQ Person: ____________________________ Date: ___________

EQ Person: ____________________________ Date: ___________
## PART 3: APPROVAL(S) TO PERFORM WORK TASK WHILE ELECTRICALLY ENERGIZED.

<table>
<thead>
<tr>
<th>Position / Role</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQ Person(s) Supervisor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Department Safety Manager</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zone Facility Manager or equivalent</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## PART 4: AT THE LOCATION OF ELECTRICALLY ENERGIZED WORK TASK THE EQ PERSON(S) SUPERVISOR IS REQUIRED TO HOST A PRE-JOB BRIEFING TO DISCUSS WORK TASK SPECIFIC PROCEDURES, HAZARDS, SAFE WORK PRACTICES, PROTECTIVE EQUIPMENT, TOOLING AND ANY OTHER CRITICAL INFORMATION.

<table>
<thead>
<tr>
<th>Question</th>
<th>Sign</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQ Person’s(s’) Supervisor verified employees are qualified to perform</td>
<td></td>
<td></td>
</tr>
<tr>
<td>work and completed pre-job briefing prior to electrically energized work</td>
<td></td>
<td></td>
</tr>
<tr>
<td>task?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
