

## **Working Safely Near Power Lines**

Power companies get very concerned when construction and maintenance equipment get close to or touches a power line.

If you are working on a hoisting/rigging, excavating, grading or construction project within an electrical line right-of-way, keep in mind the risks associated with overhead high-voltage power lines. Non-electrical utility crane operators must contact the local electrical distribution company to verify voltage.



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#### TABLE A—MINIMUM CLEARANCE DISTANCES

Voltage (nominal, kV, alternating current)	Minimum clearance distance (feet)
up to 50	15 20 25 35

Note: The value that follows "to" is up to and includes that value. For example, over 50 to 200 means up to and including 200kV.

#### **How to Avoid Electrocution:**

- Locate all power supplies, besides this being the state, it's smart.
- Be aware of overhead power lines and equipment, and maintain safe working distances from energized parts.
- Have the power company inform you of the voltage and arc distances.
- Shut off or insulate the power line(s) if possible.
- Never allow a piece of equipment to break the safety zone (the distance required to avoid electric arc).
- Use extreme care with ladders and scaffolding.
- Establish a clearance boundary around power lines before work begins.



- Pay attention to line clearance distances. The height above the ground can vary, based on power load.
- Use a spotter when operating heavy equipment.
- Call the local electrical distribution company if unsure about line voltage rating and safe working distance from power lines equipment.
- Comply with all OSHA requirements and applicable state and federal regulations.

#### **General Rules to Remember:**

- Designate a competent lead signal person.
- Communicate clearly with all members of the work crew.
- Have all crew members watch the operation.
- Watch for non-alert crew members.

**Remember**, whenever you are near a power line, be sure to minimize the risk by de-energizing or insulating the power source. Only then proceed with caution. At all times, try to avoid entering an arc zone. It is far better to be safe than sorry.



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# Safety Talk Sign-in Sheet Topic Working Safely Near Power Lines

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