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TAILGATE/TOOLBOX SAFETY TRAINING
Safety Services Company-Safety Meeting Division,

| | | | PO BOX 0408 Tuilla, | AZ 85366-6408 Toll Free (866) 2 | 204-4786 J 🖊 🛂 LUMPAN |
|---|-------------------------------|--|-----------------------------------|---|-----------------------------|
| Company Name: _ | | | Job Site Location | on: | |
| Date: | Start Time: | Finish Time: | Foreman/Supervisor: | | |
| Topic 530: Overhead Lines (Electrical) | | | | | |
| I opic 330. Overneud Lines (Electrical) | | | | | |
| Introduction: Working near overhead lines is dangerous. Following are safety guidelines for working safely around overhead lines: | | | | | |
| All overhead lines must be deenergized and grounded, or other protective measures must be provided before work is started. Arrangements are required to be made with the person, or organization that operates, or control the electric significant to the control of the person of organization that operates are control to the electric significant to the control of the person of organization that operates are control to the electric significant to the | | | | | |
| Arrangements are required to be made with the person, or organization that operates, or controls the electric circuits to deenergize and ground them, if the lines are to be deenergized. | | | | | |
| ■ When protective measures, such as guarding, isolating, or insulating, are provided, these precautions must prevent employees from | | | | | |
| contacting such lines directly with any part of their body, or indirectly through conductive materials, tools, or equipment. | | | | | |
| Note: The work practices used by qualified persons installing insulating devices on overhead power transmission or distribution lines are | | | | | |
| covered by OSHA in 29 CFR §1910.269. | | | | | |
| Unqualified persons: When an unqualified person is working in an elevated position near overhead lines, the location must be such that the | | | | | |
| person and the longest conductive object, he or she may contact, cannot come closer to any unguarded, energized overhead line than the | | | | | |
| following distances: For voltages to ground 50kV or below 10 feet, for voltages to ground over 50kV 10 feet plus 4 inches for every 10kV | | | | | |
| over buk v. | • | | | | |
| Note: For voltages normally encountered with overhead power lines, objects which do not have an insulating rating for the voltage involved are | | | | | |
| considered to be conductive. | | | | | |
| Qualified persons: When a qualified person is working in the vicinity of overhead lines, whether in an elevated position, or on the ground, the person | | | | | |
| may not approach, or take any conductive object without an approved insulating handle closer to exposed energized parts than shown in Table S-5 unless; | | | | | |
| Ine person is i | insulated from the energiz | ed part (gloves, with slee | ves if necessary, and ra | ated for the voltage involved are co | onsidered to be |
| Insulation of th | e person from the energize | ed part on which work is | performed). | | |
| ■ The energized | part is insulated both from | all other conductive obj | ects at a different poter | ntial and from the person. | |
| the energized p | insulated from all conduct | ive objects at a potential | different from that of | Table S-5 - Approach Diete | more for Qualified |
| Vehicular and mechanical equipment: Any vehicle or mechanical equipmen | | | inment conclude of | Table S-5 - Approach Distances for Qualified Employees - Alternating Currents | |
| having parts of its structure elevated near energized overhead lines shall be operated | | | | | |
| clearance of 10 ft is n | naintained. If the voltage i | s higher than 50kV the c | learance shall be | Voltage Range | Minimum |
| clearance of 10 ft is maintained. If the voltage is higher than 50kV, the clearance increased 4 in for every 10kV over that voltage. The clearance may be reduced u the following conditions: ### If the vehicle is in transit with its structure lowered, the clearance may be reduced. | | | luced under any of | (phase to phase) | Approach Distance |
| | | | | 300V and less | Avoid Contact |
| | | | may be reduced to 4 | Over 300V, not over 750V | 1 ft. 0 in. (30.5 cm) |
| ft. If the voltage | e is higher than 50kV, the | clearance shall be increas | sed 4 in, for every 10 | Over 750V, not over 2kV | 1 ft. 6 in. (46 cm) |
| kV over that vo | oltage. | | • | Over 2kV, not over 15kV | 2 ft. 0 in: (61 cm) |
| If insulating bo | arriers are installed to pre- | vent contact with the line | s, and if the barriers | Over 15kV, not over 37kV | 3 ft. 0 in. (91 cm) |
| are rated for the | e voltage of the line being | guarded and are not a par | nt of or an attachment | Over 37kV, not over 87.5kV | 3 ft. 6 in. (107 cm) |
| to the vehicle o | r its raised structure, the c | learance may be reduced | to a distance within | Over 87.5kV, not over 121kV | 4 ft. 0 in. (122 cm) |
| the designed wo | orking dimensions of the i | nsulating barrier. | | Over 121kV, not over 140kV | 4 ft. 6 in. (137 cm) |
| If the equipment is an aerial lift insulated for the voltage involved, and if the work is performed by a qualified person, the clearance (between the | | | | | |
| uninsulated portion of the aerial lift and the power line) may be reduced to the distance given in Table S-5. | | | | | |
| Employees standing on the ground may not contact the vehicle, or mechanical equipment, or any of its attachments, unless: | | | | | |
| The employee is using protective equipment rated for the voltage, or the equipment is located so that no uninsulated part of its structure (that portion of the structure that provides a conductive path to employees on the arrival) control of the structure that provides a conductive path to employees on the arrival of the structure (that | | | | | |
| portion of the structure that provides a conductive path to employees on the ground) can come closer to the line than permitted in line above. If any vehicle or mechanical equipment capable of having parts of its structure elevated near energized overhead lines is intentionally grounded, | | | | | |
| employees working on the ground near the point of grounding may not stand at the grounding location whenever there is a possibility of overhead | | | | | |
| line contact. | | | | | |
| ■ Additional prec | cautions, such as the use o | f barricades or insulation | , shall be taken to prote | ect employees from hazardous gro | und potentials |
| depending on ea | arth resistivity and fault cu | irrents, which can develo | p within the first few ϵ | et, or more outward from the grou | inding point |
| Conclusion: All emp | loyees must be trained in t | he safety of working nea | r overhead lines. Follo | w these safety guidelines to ensure | safe operations. |
| | | | Site Review | , , | . F |
| Work-Site Hazards | and Safety Suggestions | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | ~ | | |
| Personnel Safety Vi | iolations: | | | | |
| Employee Signa | | | | | |
| Employee Signatures: (My signature attests and verifies my understanding of and agreement to comply with, all company safety policies and regulations, and that I have not suffered, experienced, or sustained any recent job-related injury or illness.) | | | | | |
| | | ana regulations, and tha | t i nave not suffered, exp | ertenced, or sustained any recent job- | related injury or illness.) |

Branscome Richmond Foreman/Supervisor's Signature:

These guidelines do not supercede local, state, or federal regulations and must not be construed as a substitute for, or legal interpretation of, any OSHA regulations.