

## a Train is a Coming!

As Denver continues to develop into one of the nation's best economies and places to live, so too will the population and traffic continue to increase. That being said, light rail transit and construction will continue to grow in an attempt to keep pace with our thriving economy. As the light rail expands, the need for conveniences like shopping centers, restaurants, hotels, etc. will continue to develop in close proximity to the rail. This month's bulletin will recognize some of the hazards associated with working in close proximity to the light rail.

Under normal conditions, overhead power transmission lines are safe. However, construction work around overhead lines is not normal and overhead lines can be deadly if you don't pay attention to the hazards associated with them. The minimum clear distance for overhead lines is 10' for 50 kV (50,000 volts). Additional distance must be added for increased voltage. Commuter rail trains are running 25kV Making the minimum safe approach distance 10'.

### What can you do to protect yourself?

- **Contact RTD, Confirm minimum safe working distance.**
- Pre-task work assignments and identify potential hazards before beginning work.
- Set up barricades/elevated warning lines.
- Assign a competent person to monitor/spot approaching materials to minimum safe distance.
- Pre-walk work area and identify best path for travel.
- Be aware of approaching trains.
- Do not touch or attempt to remove any object that comes into contact with a power line. Call the D.O.T. for assistance.



## Do This!

- Contact RTD, confirm minimum safe working distance.
- Pre-task work assignments and identify potential hazards before beginning work.
- Set up barricades/elevated warning lines.
- Assign a competent person to monitor/spot approaching materials to minimum safe distance.
- Do not touch or attempt to remove any object that comes into contact with a power line. Call the D.O.T. for assistance.

## Don't do this!

- **Begin work without identifying hazards and establishing a thoroughly thought out plan.**
- **Assume the minimum safe approach distance to the power lines.**
- **Work alone.**
- **Work in close proximity to power lines without a designated spotter.**
- **Attempt to remove any object that comes into contact with a power line. Call the D.O.T. for assistance.**

DANGER

**ELECTROCUTION HAZARD**

**DEATH OR SERIOUS INJURY**

MAINTAIN MINIMUM CLEARANCES BETWEEN CRANE AND/OR LOAD BEING HANDLED AND ENERGIZED POWER LINES

NOMINAL VOLTAGE, kV (PHASE TO PHASE)	MINIMUM CLEARANCE DISTANCE
Up to 50	10 feet
Over 50 to 250	15 feet
Over 250 to 500	20 feet
Over 500 to 750	35 feet
Over 750 to 1,000	45 feet
Over 1,000	Contact owner/operator



