BEGIN INSTRUCTION

### Electrical Hazards ROADWAY SAFETY

# What Are the Dangers of Electricity? Contact can cause explosion, fire, electrocution.

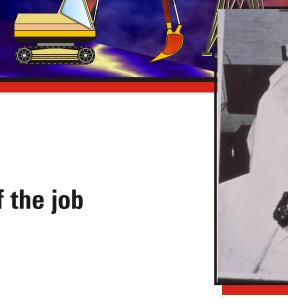
### On the worksite

- Equipment contacting a live electrical line can cause fire, explosion, or electrocution
- Electricity can arc from the line to the equipment
- Electricity can cause severe burns and death

#### Work around electricity only

- When you are trained in all aspects of the job
- When you have a reason to be there

ARBA





**BEGIN** INSTRUCTION ZONE

# How Do We Treat Above-Ground Utilities? Use extreme caution and keep your distance.

**Electrical Hazards** 

ROADWAY SAFETY

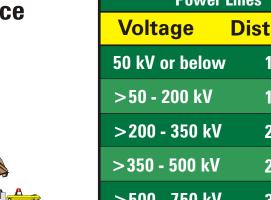
### When working around a power line

- Get the utility company to mark, flag, and shield lines
- Assume it is live until tested, have it de-energized and visibly grounded
- If it must remain energized, keep equipment and load at least 10 feet away and use a spotter to warn the operator

- Post signs at ground level to mark safe distance
- Make all workers and drivers who must enter the area aware of the overhead lines

### **Tips for operators**

- Mark a safe route for repeated travel
- Slow down



More in fog or rain

# POWER

Minimum Safe Distances **Power Lines Distance** 10 15 20 25 >500 - 750 kV 35 >750 - 1,000 kV 45

BEGIN INSTRUCTION

### Electrical Hazards ROADWAY SAFETY

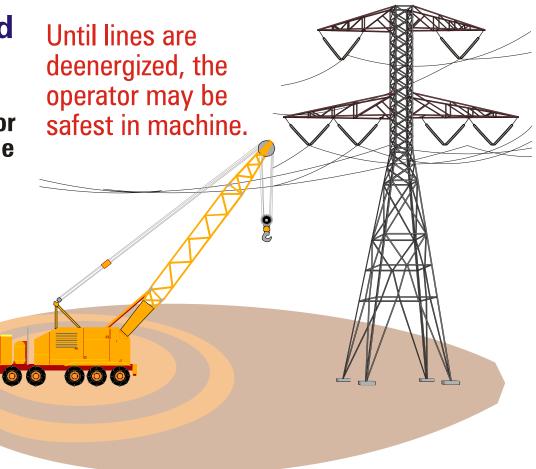
# What If Contact Happens? Do not touch equipment or person in contact.

### If you are on the ground

- Stay away from the vehicle!
- Do not touch any equipment or person in contact with the line
- Get the lines de-energized

#### If you are in the vehicle

- Stay in the vehicle and do not touch any metal
- If you must get out, jump clear, then shuffle slowly away



BEGIN INSTRUCTION ZONE

## **Electrical Hazards ROADWAY SAFETY**

# **Can We Be Safe Around Buried Utilities? Contact can cause explosion, fire, electrocution.**

### **Before digging**

- **Call electrical, gas, and communications utilities**
- Review marked out areas. They may not be exact. Dig by hand within 2 feet of mark-out.

#### When digging, look for:

**Signs of previous digging:** changes in soil types, asphalt patches or depressions, concrete, plastic, or gravel

#### If a line is hit, you must report it

If it's a gas line, evacuate and secure area, call fire department

**Color Codes Painted on Surface** Gas Line - includes liquid Felecommunications - includes able TV. copper, fiber optics

and propane

Electric

Water

