

# POWER TRANSMISSION AND DISTRIBUTION

V

- (iii) Except for moving type grounds, the grounds shall be placed and removed with a hot stick.
- (6) Conductors, subconductors, and overhead ground conductors shall be grounded at all dead-end or catch-off points.
- (7) A ground shall be located at each side and within 10 feet of working areas where conductors, subconductors, or overhead ground conductors are being spliced at ground level. The two ends to be spliced shall be bonded to each other. It is recommended that splicing be carried out on either an insulated platform or on a conductive metallic grounding mat bonded to both grounds. When a grounding mat is used, it is recommended that the grounding mat be roped off and an insulated walkway provided for access to the mat.
- (8)
- (i) All conductors, subconductors, and overhead ground conductors shall be bonded to the tower at any isolated tower where it may be necessary to complete work on the transmission line.
- (ii) Work on dead-end towers shall require grounding on all deenergized lines.
- (iii) Grounds may be removed as soon as the work is completed: Provided, that the line is not left open circuited at the isolated tower at which work is being completed.
- (9) When performing work from the structures, clipping crews and all others working on conductors, subconductors, or overhead ground conductors shall be protected by individual grounds installed at every work location.

**Stat. Auth.:** ORS 654.025(2) and 656.726(3).

**Hist:** APD Admin. Order 4-1989, f. 3/31/89, ef. 5/1/89 (temp).  
APD Admin. Order 8-1989, f. 7/7/89, ef. 7/7/89 (perm).

## ***TREE TRIMMING***

*NOTE: OAR 437-003-0665 through 0715 were repealed by OR-OSHA Admin. Order 27-1990, f. 12/12/90, ef. 2/1/91. Refer to Division 2/R, Tree and Shrub Services, OAR 437-002-0301 through 0311.*

### ***First Aid Requirements***

***437-003-0720 CPR Training.*** *Tree trimming personnel shall be trained in cardiopulmonary resuscitation.*

**Stat. Auth.:** ORS 654.025(2) and 656.726(3).

**Hist:** APD Admin. Order 8-1989, f. 7/7/89, ef. 7/7/89.

**437-003-0725 *Rescue Training.*** All tree trimmers shall be trained in rendering pole top rescue.

**Stat. Auth.:** ORS 654.025(2) and 656.726(3).  
**Hist:** APD Admin. Order 8-1989, f. 7/7/89, ef. 7/7/89.

### ***Chipper Equipment***

**437-003-0707 *Chipper equipment and operation.***

#### ***Equipment Design***

- (1)** *Enclose chipper rotating components in a housing capable of retaining broken chipper knives or foreign material.*
- (2)** *Chipper feed chutes and side members must be designed to prevent operator contact with rotating blades during normal operation.*
- (3)** *Chippers without a mechanical infeed system must have:*
  - (a)** *An infeed hopper that measures at least 85 inches from the blades or knives to ground level at the centerline of the hopper.*
  - (b)** *A flexible antikickback device in the feed hopper. This device must protect the operator and other persons in the area from flying chips and debris.*
  - (c)** *A shut-off switch within convenient reach of the worker feeding the chipper.*
- (4)** *Chippers with a mechanical infeed system must have a quick stop reversing device on the infeed. The quick stop reversing device control lever must be across the top and along each side of the hopper, as close to the feed end of the hopper as practicable within easy reach of the operator.*

#### ***Worker Apparel***

- (5)** *Employees in the immediate area of an operating chipper must wear personal protective equipment as required by Subdivision E of this Division.*
- (6)** *Workers feeding chippers must not wear loose clothing, gauntlet-type gloves, rings or watches.*

#### ***Work Practices***

- (7)** *Prevent accidental restart of equipment shut down for adjustment or repair as required by Division 2/J, 1910.147, Lockout/Tagout.*
- (8)** *Guard exposed adjacent blades when replacing chipper blades.*