

SG 001 Substation High-Voltage Warning Signs

Scope

This standard specifies the details of, and installation procedures for high-voltage warning signs. These signs shall be placed on all fenced enclosures containing high-voltage electrical equipment.

References

The following publications also pertain to substation high-voltage warning signs:

ANSI Z535.1-2006, Safety Color Code

ANSI Z535.2-2006, Environmental and Facility Safety Signs

ANSI Z535.3-2006, Criteria for Safety Symbols

ANSI Z535.5-2006, Accident Prevention Tags (For Temporary Hazards)

NESC Handbook 5th Edition, Appendix B, Safety Signs

PacifiCorp Substation Engineering Handbook Document 6B.5, Fence Application and Construction.



Figure 1—English High-Voltage Warning Sign for Pacific Power (SI# 7999851)

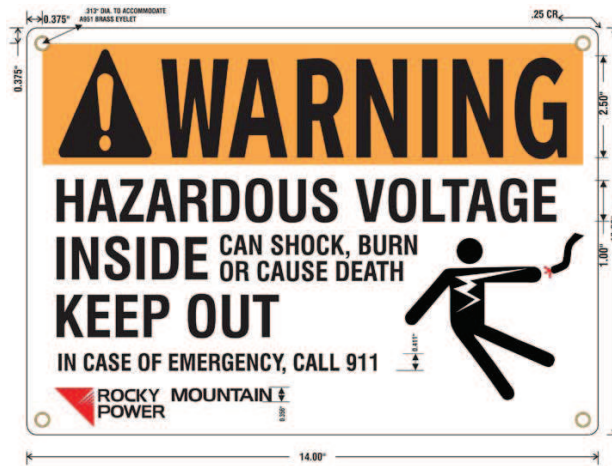


Figure 2—English High-Voltage Warning Sign for Rocky Mountain Power (SI# 7999852)



Figure 3—Spanish High-Voltage Warning Sign for Pacific Power (SI# 7999853)

Placement and Spacing

1. Signs shall be placed on each side of the substation's perimeter fence at a maximum spacing distance of 65 feet.
2. Signs shall also be placed on each gate, and shall be placed on the left-hand leaf of double gate.
3. Signs shall be placed on the outside of the fence (not the inside) at an approximate height of 5'-6" from the center of the sign to the ground. Sign location and height may be adjusted as needed to ensure maximum visibility. (For example, signs should not be obstructed by bushes, trees, berms, etc.)

Ordering, Installation and Inspection

1. On existing installations, Technical Operations will inspect signs, verify placement, address conditions, and secure or order signs where and if needed.
2. Order high voltage warning signs with internal stock item number:

English Pacific Power sign: SI# 7999851

Spanish Pacific Power sign: SI# 7999853

English Rocky Mountain Power sign: SI# 7999852

Spanish Rocky Mountain Power sign: SI# 7999854

3. Order mounting hardware for mounting the sign on the substation fence, with internal Stock Item Number 7999092.

Description: The mounting hardware is comprised of aluminum brackets with 1" temper-proof bolts and locking nuts. The bolts are installed through the sign's front, and screw into the aluminum brackets located on the interior of the fence. Four sets of mounting hardware are needed for each sign.