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CORROSION RESISTANT GROUND RODS AND GROUND ROD 013109 CLAMPS

Asset Type	Electric Distribution	Function:	Design and Construction				
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Rev. #06: This document replaces PG&E Document 013109, Rev. #05. For a description of the changes, see Page 3.							

This document is also included in the following manual:

• Electric and Gas Service Requirements Manual (Greenbook)

Purpose and Scope

This document describes corrosion resistant ground rods and ground rod clamps.

References	Location	Document
Methods of Grounding Steel Transmission Poles		
and Towers	. <u>TIL</u>	
Method of Grounding Fences and Wire Trellises	. <u>TIL</u>	
Installation of Grounds on Wood Pole Transmission		
and Distribution Lines	. OH: Transformers	
Ground Resistance and Resistivity Measurements	. <u>ELS</u>	

Conventional Ground Rods

Notes

- 1. Ground rods shall meet the requirements of ANSI Spec. C33.8 (UL 467).
- 2. Welded-type connections may be used when welding equipment is available on the job.



Ground Rod Clamps





Figure 2 Standard Clamp



Figure 3 Clamp for Large Wire



Detail A Installation of Ground Rod

Refer to	Ground Rod Diameter	Ground Wire Size – Copper	Code	Manufacturer	Catalog Number				
	5/8"	6 to 1/0	187012	Hubbell/Anderson	GC103-01				
				Dossert	GN-62				
Figure 2				Eritech	HDC58H				
				Eritech	SP58				
				Galvan	JAB58HH				
	5/8"	2/0 to 4/0 With 5/8" Diameter Rod and 6 to 1/0 With 3/4" Diameter Rod	187017	Hubbell/Anderson	GC103-02				
	or			Dossert	GN-75				
Figure 2	3/4"			Galvan	JAB34HH				
	0/4"	4/0 and 250 kcmil	187024	Hubbell/Anderson	GC103-03				
	3/4			Dossert	GNS-75				
	5/8" or 3/4"	300 to 500 kcmil	187020	Hubbell/Anderson	GC-111-3D				
Figure 3				Burndy	GAR6434				
				Royal	2022(DQ)				

¹ The setscrew and clamp are to withstand approximately 35-40 foot-lbs. of torque on the setscrew head without cracking or breaking.

Table 2 Utility-Grade Ground Rod Clamps ¹

Sectional Ground Rods

Notes

- 1. Remove the driving head and upper coupling from the ground rod to permit installing a ground rod clamp, (see Table 2 on Page 2), when the ground rod has been driven to its final depth.
- 2. After driving a second sectional rod, check the rod with a wrench to ensure that the bottom of the second rod is contacting the top of first rod in the threaded coupling. Repeat this check on each additional rod used.



Revision Notes

Revision 06 has the following changes:

1. Updated Table 2 on Page 2.