
	<b>PG&amp;E-APPROVED ELECTRIC DISTRIBUTION MATERIALS MANUFACTURERS</b>		<b>066211</b>
	<b>Asset Type:</b> Electric Distribution	<b>Function:</b> Design	
<b>Issued by:</b> Michael Thibault (MLTC) 	<b>Date:</b> 11-01-18		
<b>Rev. #23:</b> This document replaces PG&E Document 066211, Rev. #22 For a description of the changes, see Page 4.			

**Purpose and Scope**

This document provides a list of PG&E-approved manufacturers of major materials for use in PG&E's Electric Distribution System.

**Table 1 PG&E-Approved Electric Distribution Materials Manufacturers**

Material	Responsible Engineer	Approved Manufacturer
Arresters	Sam Chang	Joslyn, Ohio Brass, Tyco
Barrier Posts	M.L. Thibault	Allwire
Brackets, Overhead	Eduardo Sanchez	Aluma-Form, Chance, Joslyn, Kortick, MacLean
Cable, Primary	Liseth Villareal	Okonite, Prysmian
Cable, Aluminum, Secondary	Liseth Villareal	General Cable (Alcan), Southwire
Cable, Copper, Secondary	Liseth Villareal	Okonite
Capacitor Controls	Eduardo Sanchez	HD Electric, S&C (Energyline)
Capacitor, Overhead	Eduardo Sanchez	ABB, Cooper
Capacitor, Pad-Mounted	Eduardo Sanchez	Scott Engineering
Conduit, HDPE for Boring	Liseth Villareal	Dura-Line (AD Technologies)
Conduit, Smooth Core Flex	Liseth Villareal	Dura-Line (AD Technologies)
Conduit, PVC for Boring	Liseth Villareal	Prime Conduits (Carlton Bore-Gard), Certainteed CertaCom
Conduit, PVC, ASTM F512 DB120, Schedule 40 and 80, UL 90°C, DB120	Liseth Villareal	Ridgeline Pipe Heritage, Prime (conduit), JM Eagle, Cantex
Conduit, PVC, DB120 and Schedule 40, Cellular Core	Liseth Villareal	Rocky Mountain
Conduit, Steel	Liseth Villareal	Allied, Western Tube
Conduit Fittings, Steel	Liseth Villareal	Picoma, Shamrock
Conductor, Overhead	Richard Kauzer	General Cable (Alcan), Southwire
Connectors, Overhead, Automatic Splice	Richard Kauzer	Blackburn, Fargo, MacLean
Connectors, Overhead, Compression	Richard Kauzer	Alcoa, Blackburn, Burndy, Homac, Hubbell, Nicopress
Connectors, Overhead, Dead-Ends	Eduardo Sanchez	EMC, Hubbell
Connectors, Overhead, Tap Clamp	Richard Kauzer	Hubbell, Maclean
Connectors, Overhead, Wedge Tap	Richard Kauzer	TE Connectivity (AMP)
Connectors, Underground, Compression	Liseth Villareal	Blackburn, Burndy, Homac, Hubbell, Kearney, Penn Union
Connectors, Underground, Pin Terminal	Liseth Villareal	Homac
Connectors, Underground, Secondary Multi-Tap Bars	Liseth Villareal	Blackburn, Homac

## PG&E-Approved Electric Distribution Materials Manufacturers

**Table 1 PG&E-Approved Electric Distribution Materials Manufacturers (continued)**

Material	Responsible Engineer	Approved Manufacturer
Connectors, Underground, Slip-Fit Transformer Secondary Bars	Liseth Villareal	Homac, Utilco
Connectors, Underground, Shearbolt	Liseth Villareal	TE-Connectivity
Connectors, Underground, Spade Terminals	Liseth Villareal	Burndy, Dossert, Homac
Connectors, Underground, Split-Bolt	Liseth Villareal	Blackburn, Burndy, Penn Union
Cutouts	Sam Chang	MacLean, Hubbell
Disconnect	Sam Chang	Eaton-Cooper
Elbows, 200 Amp	Liseth Villareal	Eaton-Cooper, Elastimold
Elbows, 600 Amp, Epoxy CP, and RTP	Liseth Villareal	Eaton-Cooper, Elastimold, Richards,
EPDM CP and RTP	Liseth Villareal	Elastimold, Richards
Enclosure, Frames and Covers	Liseth Villareal	Madruga Iron Works, Jensen Precast, Oldcastle Precast (Utility Vault)
Enclosure, Primary – Box, Concrete	Liseth Villareal	Jensen Precast, Oldcastle Precast (Utility Vault), Mid-State Concrete
Enclosure, Primary – Sectional Box, Concrete	Liseth Villareal	Oldcastle Precast (Utility Vault)
Enclosure, Primary – Sectional Box, Non-Concrete	Liseth Villareal	Hubbell (Strongwell/Quazite)
Enclosure, Secondary – Box, Concrete	Liseth Villareal	Jensen Precast, Oldcastle Precast (Utility Vault)
Enclosure, Secondary – Box, Polymer-Concrete	Liseth Villareal	Hubbell (Strongwell/Quazite), Armorcast, New Basis
Enclosure, Secondary – Pedestal	Liseth Villareal	Armorcast, New Basis
Fault Indicator – Overhead	Sam Chang	Horstman/Power Delivery Products, SEL (Schwertzer)
Fault Indicator – Underground	Sam Chang	Horstman/Power Delivery Products
Fuses	Sam Chang	Chance, Combined-Tech, Eaton-Cooper, Hi-Tech, Kearny, S&C
Ground Rods	M.L. Thibault	Calpico, Eritech, Galvan, Nehring
Insulators, Dead-End, Silicon	Eduardo Sanchez	K-Line, MacLean, Salisbury, Advanced Rubber
Insulators, Line	Eduardo Sanchez	Lapp, NGK, Porcelain Products, Victor, Hendrix, Preformed
Insulators, Standoff	Sam Chang	S&C
Interrupter – Pad-Mounted	Ryan Kowdley	Madruga, Elastimold
Interrupter – Subsurface, 200 Amp	Ryan Kowdley	Trayer, Elastimold
Interrupter – Subsurface, 600 Amp	Ryan Kowdley	Trayer
Interrupter – Vault-Mounted	Ryan Kowdley	Elastimold, G&W
Junctions, Primary – Pad-Mounted	Liseth Villareal	Madruga, Maysteel, Patton & Cooke, Scott
Junctions, Primary – Subsurface	Liseth Villareal	Elastimold, Inertia
Pad, Capacitor	Eduardo Sanchez	Jensen Precast, Teichart Brooks, Oldcastle Precast (Utility Vault)
Pad, Junction, Primary – Pad-Mounted	Liseth Villareal	Hubbell
Pad, Switch, Box	Ryan Kowdley	New Basis, Hubbell/Quazite
Pad, Switch, Concrete	Ryan Kowdley	Jensen Precast, Mid-State Concrete, StructureCast, Teichart Brooks, Oldcastle Precast (Utility Vault)
Pad, Transformer, Box	M.L. Thibault	Armorcast, CDR, New Basis, Strongwell/Quazite

## PG&E-Approved Electric Distribution Materials Manufacturers

**Table 1 PG&E-Approved Electric Distribution Materials Manufacturers (continued)**

Material	Responsible Engineer	Approved Manufacturer
Pad, Transformer, Concrete	M.L. Thibault	Jensen Precast, Mid-State Concrete, Structure Cast, Teichart Brooks, Oldcastle Precast (Utility Vault)
Photocontrol, Streetlight <sup>1</sup>	Maylen Yue	ALR, DTL, Fisher Pierce, Sun-Tech
Poles, Wood, Distribution (taller than 35 feet)	Richard Kauzer	McFarland Cascade
Poles, Wood, Service	Richard Kauzer	Koppers, McFarland Cascade, Nevada Wood Preserving, Thunderbolt Wood Treating
Pulling Lubricant	Liseth Villareal	Dura-Line (Arnco), Polywater
Pulling Tape	Liseth Villareal	Dura-Line (Arnco), Herculine, Nepco, Wellington
Recloser	Sam Chang	Eaton-Cooper
Recloser Controller	Sam Chang	Eaton-Cooper
Regulator, Voltage	Eduardo Sanchez	Cooper, Howard Industries
Retaining Wall	Liseth Villareal	Jensen Precast, Oldcastle Precast (Utility Vault)
Sectionalizer	Sam Chang	Eaton-Cooper
Splices, UG Insulated, Primary	Liseth Villareal	Elastimold, 3M, TE Connectivity (Raychem)
Cold-shrink Y and H Splices, UG Insulated Primary	Liseth Villareal	Richards, TE Connectivity
Splices, UG Insulated, Secondary	Liseth Villareal	3M
Switches, Controllers, Overhead, SCADA	Marlon Viduya	S&C
Switches, Controllers, Subsurface, SCADA	Marlon Viduya	S&C, Trayer
Switches, Fused – Pad-Mounted	Ryan Kowdley	S&C
Switches, Fused – Subsurface	Ryan Kowdley	ABB, Trayer
Switches, Overhead, Manual	Sam Chang	Eaton-Cooper, Inertia, S&C
Switches, Pad-Mounted	Ryan Kowdley	S&C
Switches, Subsurface 200 Amp, Manual	Ryan Kowdley	Trayer, ISG, Elastimold
Switches, Subsurface 600 Amp, Manual	Ryan Kowdley	Trayer, ISG
Switches, Vault-Mounted	Ryan Kowdley	Elastimold, G&W
Termination, Silicone Cold Shrink	Liseth Villareal	3M, TE Connectivity (Raychem)
Transformer, Potential, Dry-Type, Outdoor Overhead	M.L. Thibault	ABB, GE
Transformer, Potential, Dry-Type, Submersible	M.L. Thibault	ABB
Transformer, Potential, Liquid-Filled, Outdoor Overhead	M.L. Thibault	ABB
Transformers, Single-Phase Overhead	M.L. Thibault	Howard Industries, Power Partners, Cooper
Transformers, Single-Phase Pad-Mounted	M.L. Thibault	ABB, Cooper, Howard Industries
Transformers, Single-Phase Subsurface	M.L. Thibault	ABB, Howard Industries, Power Partners
Transformers, Single-Phase Subway	M.L. Thibault	ABB, Howard Industries
Transformers, Three-Phase Network, Dry-Type	M.L. Thibault	ABB
Transformers, Three-Phase Network, Liquid Filled	M.L. Thibault	ABB, GE
Transformers, Three-Phase Overhead	M.L. Thibault	Howard Industries, Power Partners
Transformers, Three-Phase Pad-Mounted	M.L. Thibault	ABB, Cooper, Howard Industries,
Transformers, Three-Phase Subsurface	M.L. Thibault	ABB, Howard Industries

<sup>1</sup> Fully electronic, utility grade, meeting ANSI C136.10 requirements, turn on at  $1.0 \pm 0.2$  foot candle (fc), turn off at  $1.5 \pm 0.3$  fc.

## PG&E-Approved Electric Distribution Materials Manufacturers

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### Notes

1. This document may be updated between book publishings. Contact your local PG&E representative to obtain the latest version.
2. Each approved manufacturer does not necessarily supply all of the approved variations in each commodity.
3. New Basis is the parent company of Associated Plastic Products and Associated Concrete International.

### Revision Notes

Revision 23 has the following changes:

1. Updated Table 1 Pages 1, 2, and 3 to current status.