22 kV LINE DEVICES

Title / Description .............................................................................................................................................................. Page No.
Disconnect Switch, 600 Amp, Shield Wire Configuration .................................................................................................. 10-2-1
Disconnect Switch, 600 Amp, Crossarm Construction ........................................................................................................ 10-3-1
Gang Operated Switch, 600 Amp Unitized, Vertical ........................................................................................................... 10-4-1
S & C Intellirupter, RC Pulse Recloser, Wood Pole, Flat Construction ............................................................................. 10-5-1
Compatible Unit Coding for Retirement of Non-Standard Devices .................................................................................... 10-6-1
CONDUCTORS - AC312, R2, R30

IF UNDERBUILD, DESIGNATE CIRCUIT SEPARATION AND LOCATE STATIC IN SECONDARY POSITION.

6"

3'-0" MIN.

12"

2'-6"

12"

2'-6"

35' MAX. ABOVE FINAL GRADE

5'-6"

SECONDARY POSITION IF REQUIRED.

BD82V

DISCONNECT SWITCHES, 600 AMP

22 kV LINE DEVICES

SHIELD WIRE CONFIGURATION
Overhead Distribution Construction Standards

22kV LINE DEVICES DISCONNECT SWITCHES, 600 AMP CROSSARM CONSTRUCTION

REV. REFORMAT

ISSUE DATE: 03/08/75
REV. DATE: 06/04/13
APPROVAL: B. PRIEST

10-3-1
# Overhead Distribution Construction Standards

## 22kV Line Devices

### Gang Operated Switches

**600A Unitized, Vertical**

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Material Description</th>
<th>Quantity</th>
<th>Stock No.</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Rod, Interphase, 1 in. Dia., Fiberglass</td>
<td>30</td>
<td>5034616</td>
</tr>
<tr>
<td>2</td>
<td>Splice, for Interphase Rod</td>
<td>1</td>
<td>5034631</td>
</tr>
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<td>3</td>
<td>Switch, Unitized Pole Mounted, 600A</td>
<td>1</td>
<td>5034639</td>
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<td>4</td>
<td>Insulator, Suspension, 6 1/4 In. Clevis</td>
<td>12</td>
<td>5034719</td>
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<td>5</td>
<td>Deadend Clamp, Various</td>
<td>6</td>
<td>BD__</td>
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<tr>
<td>6</td>
<td>Extension Strap</td>
<td>6</td>
<td>5035479</td>
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<td>7</td>
<td>Anchor Shackle</td>
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<td>5028895</td>
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</tbody>
</table>

**NOTE:**
- For double circuit, the tangent circuit must be rebuilt per P66. The bolt heads for the extended brackets shall be on the pole side.

- Operating Rod Guides:
  - Top bolt eye shall not be greater than 5ft from switch crank
  - Bottom bolt eye shall not be lower than 8ft from grade
  - Intermediate bolt eyes shall not be spaced greater than 8ft.

- If underbuild, designate circuit separation and locate static in secondary position.

- Overhead Distribution Construction Standards

**Revision Date:** 05/04/13

**Approval:** B. Priest
NOTES
1. Connect ground lugs to pole neutral with #2 copper 5033850.
2. Attach lifting sling only to lifting brackets. Lift intellirupter until sling is taut. Unbolt intellirupter from steel brackets attached to shipping skids. Bolt intellirupter to pole.
3. Must have bucket truck access.
4. 5076103 weighs 1,100 lbs. EPA = 4,266 inches square.
5. Control Engineering to provide antenna detail.
6. Connect arrester hot lead (#6 CU SOL 600 V, 5033863) to phase terminal with tap lug 5016725. Train hot lead to side.
7. Hold tag operator.
8. G.O.S. operation rod.
9. Arrester ground lead 5033990.
10. RC312 or same as phase conductor. Cover with insulated tubing 5035617.
11. Control module 5081582 included in CU.
12. Tangent construction only. Maximum line tension difference 1,500 pounds per position.
13. The required communication module must be requested separately: MIMO Mx Toranado radio 5081717 or MDS INET 900-DG radio RTU-DFAINETRADIO (5081618).
14. Coordinate with Control Engineering for installation of radio controller (RTU).
<table>
<thead>
<tr>
<th>Unit Description</th>
<th>Compatible Unit</th>
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<tbody>
<tr>
<td>Switch, Recloser, 22 kV, Under 600 Amp, 3 Phase</td>
<td>RCL22</td>
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<tr>
<td>Disconnects, Single Pole, 22 kV, 400 Amp</td>
<td>RD224</td>
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