

# TF 255 II5 kV Structure—Shielded, Single-Circuit, Deadend Tap

#### Scope

This structure is used for a three-way dead end when shielding is required.

Line Tap Angle: 65° to 90°.

#### **Standard References**

TD 001 Poles, Wood — General Information

TD 100 Conductor—General Information

TD 201 Shield and Guy Wire—General Information

TD 300 Grounding—General Information

TD 500 Tension Hardware—General Information

TD 600 Guys and Anchors—General Information

TD 800 Insulators—General Information

TD 900 Bolts, Nuts, and Washers—General Information

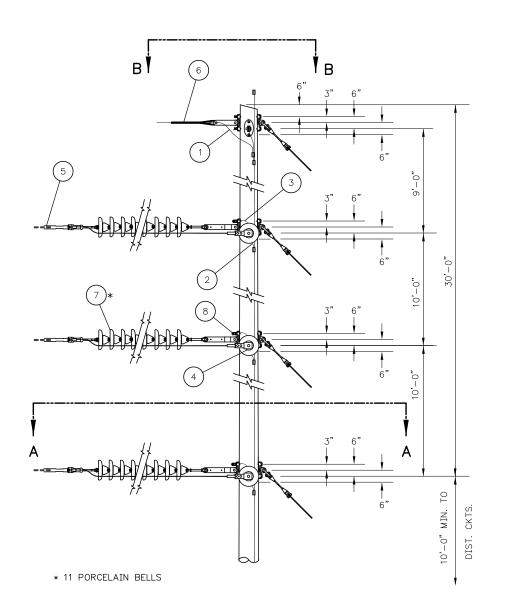
	TI	F 255	_	_	_	_	_
Conductor -		Code					
Through Circuit		Code	•				
397.5 ACSR "Ibis"		С					
795 ACSR "Drake"		D					
954 ACSR "Cardinal"		Е					
1272 ACSR "Bittern"		F					
1557.4 ACSR "Potoma	c″	Ι					
795 AAC "Arbutus"		G					
1272 AAC "Narcissus"		Н					
None		Z					
Conductor -		Code					
Tap Circuit		Code		٠			
397.5 ACSR "Ibis"		С					
795 ACSR "Drake"		D					
954 ACSR "Cardinal"		Е					
1272 ACSR "Bittern"		F					
1557.4 ACSR "Potoma	c″	I					
795 AAC "Arbutus"		G					
1272 AAC "Narcissus"		Н					
None		Z					
Shield Wire		Code			•		
3/8 EHS		А					
1/2 EHS		В					
7 #8 AW		С					
7 #6 AW		D					
3/8" Equiv. OPGW		М					
1/2" Equiv. OPGW		Ν					
None		Z					
Insulation		Code				٠	
Porcelain		А					
Polymer		В					
Pole Class	Species	Code					•
1	Douglas fir	С					
H1	Douglas fir	D					
H2	Douglas fir	Е					
H3	Douglas fir	K					
H4	Douglas fir	L					
H5	Douglas fir	М					
H6	Douglas fir	Ν					
1	Western red cedar	Н					
H1	Western red cedar	Ι					
H2	Western red cedar	J					

Transmission Construction Standard Page I of 4 Published Date: 28 Nov I I Last Reviewed: 28 Nov I I





Deviation from this standard requires prior approval. Contact the standards engineering manager for approval processes and forms. Printed versions of this standard may be out of date. Please consult the online standards for the most recent version. ©2014 by PacifiCorp Engineering Publications..





### Figure I—Structure Layout

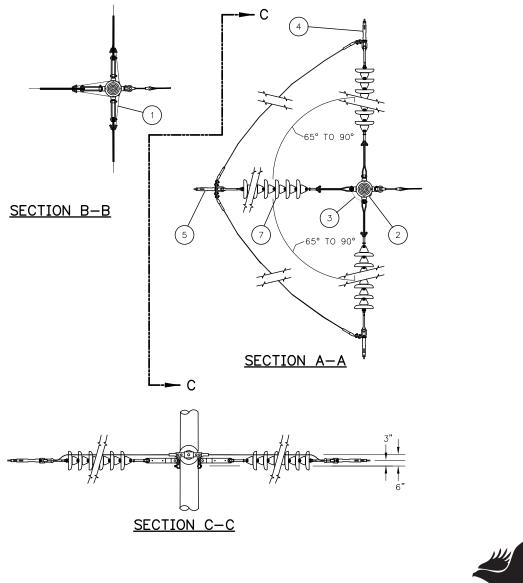
Transmission Construction Standard Page 2 of 4 Published Date: 28 Nov 11 Last Reviewed: 28 Nov 11





Deviation from this standard requires prior approval. Contact the standards engineering **2**10**f** are for approval processes and forms. Printed versions of this standard may be out of date. Please consult the online standards for the most recent version. ©2014 by PacifiCorp Engineering Publications.

#### PEA 3.4.1.h Attachment TF 255 II 5 kV Structure—Shielded, Single-Circuit, Deadend Tap







Transmission Construction Standard Page 3 of 4 Published Date: 28 Nov 11 Last Reviewed: 28 Nov 11





Deviation from this standard requires prior approval. Contact the standards engineering manager for approval processes and forms. Printed versions of this standard may be out of date. Please consult the online standards for the most recent version. ©2014 by Pscific orp Engineering Publications..

Item	Qty.	Standard	Description
1	3	TD 325_	Grounding Assembly, Shield Wire-to-Pole Ground
2	3	TD 322E	Grounding Assembly, Hardware-to-Structure Ground
3	3	TD 321E Z	Grounding Assembly, Hardware-to-Hardware
4	6	TD 520	Tension Assembly, Conductor
5	3	TD 521	Tension Assembly, Conductor, Double Jumper
6	3	TD 525_A	Tension Assembly, Shield Wire, Guy Grip
7	9	TD 826F_A	Insulator Assembly, Dead-End, with 15" Link
8	16	TD 928_D	Bolt Assembly, Machine, 1"

## Table I—Components

Table 2—Additional Material to	Be S	pecified to	Complete	the Structure
--------------------------------	------	-------------	----------	---------------

Item	Qty.	Standard	Description
А	1	TD 020A	Wood Pole Assembly
В	1	TD 622, TD 623, TD 624, TD 625, TD 626, TD 627	Guy Assembly
С	1	TD 630_A_	Anchor Assembly

### Notes

- 1. Compression fittings are specified for the through and tap circuit conductors.
- 2. If the tap conductor selected is smaller than the through conductor, the size of the smaller conductor dead end may restrict the maximum current that can be carried through it by the larger through conductor jumpers. Contact Transmission Engineering for assistance.
- 3. All hardware is to be bonded when it is separated by less than eight inches. Bond wire shall loop around the bolt.
- 4. Install spring washers with loop end up where possible.
- 5. All pole attachment hardware shall be bonded to the pole grounding assembly.
- 6. Guy assemblies shown in item B of Table 2 are all available options. Make specific selections and quantities based on structural needs.
- 7. The pole class option code selects the bolt length. The larger the pole class, the longer the bolts.





Deviation from this standard requires prior approval. Contact the standards engineering **400** der for approval processes and forms. Printed versions of this standard may be out of date. Please consult the online standards for the most recent version. ©2014 by PacifiCorp Engineering Publications.