



*Distribution Construction Standards*

**EU**

*Table of Contents*

## **EU - Joint Use**

### **Table of Contents**

#### ***Information Standards***

<u>Standard</u>	<u>Title</u>	<u>Revision Date</u>
EU 001	Joint Use—General Information .....	10 Nov 98
EU 101	Joint Use—Pole Space Allocation .....	22 Mar 07
EU 211	Joint Use—Climbing Space Through Communication Circuits .....	31 May 93
EU 221	Joint Use—Clearances, Communication to Supply Circuits	8 Nov 07
EU 231	Joint Use—Clearances, Communication Above Ground, Roadway or Water .....	17 Mar 00
EU 241	Joint Use—Clearances, Communication Equipment to Risers .....	17 Mar 00
EU 251	Joint Use—Clearances, Communication Equipment to Transformers .....	17 Mar 00
EU 261	Joint Use—Clearances, Communication Equipment to Street Lights .....	17 Mar 00
EU 281	Joint Use—Clearances, Low Voltage Service Drops ....	31 May 93
EU 401	Joint Use—CATV on Poles .....	22 Mar 07

**EU**

*Table of Contents*



*Distribution Construction Standards*

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**Joint Use—General Information**

**A. Scope**

Joint use agreements with other utilities include standards covering the attachments involved. This section contains drawings covering joint use of poles by supply and communications circuits and equipment. These drawings conform with the applicable requirements of joint pole practices for supply and communications circuits: National Electrical Safety Code, ANSI C2–1997 (NESC); California Public Utility Commission General Order No. 95 (G.O. 95); and other state and local requirements.

**B. General**

The drawings in this section specify the clearances required and the typical arrangement of attachments.

Questions concerning conflicts or impaired clearances between supply circuits and communications circuits, including community antenna TV cables, which are not adequately covered by the scope or detail of this section, shall be referred to the area engineer.



These standards apply to all other utilities and other entities who own facilities which contact or are supported by equipment owned by PacifiCorp, including attachments not covered by joint use agreements.

Any trolley circuits attached to company-owned power poles will require special joint use agreements and drawings showing clearances. Trolley circuit attachments will require distribution engineering approval on a case-by-case basis.

Over-lashing of communication cables is an acceptable practice and will follow the same policy as any other attachment request. The application will be reviewed by PacifiCorp and the party being over-lashed, to determine any upgrades that may be required. The requesting party, the party that is being over-lashed, and PacifiCorp will agree to payment of the cost of any needed upgrades and the attachment fees.

The addition of the new cable will place additional loading requirements on poles and down guys and will impact the sag of the existing cable. These items will need to be reviewed to see if pole change-outs or guy replacements will be necessary.

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**Joint Use  
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10 Nov 98

**EU 001**  
Page 1 of 2

**EU 001**

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**EU 001**  
Page 2 of 2

10 Nov 98

**Joint Use  
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## Joint Use—Pole Space Allocation

### A. Scope

This standard provides information regarding the allocation of space on joint use poles for attachment of telephone, cable TV, and PacifiCorp facilities.

### B. General

#### 1. Compliance with Safety Codes and Rules

It is intended that all construction will meet or exceed the requirements of the latest edition of the National Electrical Safety Code (NESC). All work will be performed in a safe manner which complies with the rules of the NESC, the Occupational Safety and Health Administration (OSHA) and the rules of any state agencies having jurisdiction.

#### 2. Communication Includes Telephone and Cable TV

The term "communication" is considered to include both telephone and cable TV. This is how the term is used by the NESC.

#### 3. Available Pole Space

The setting depth of a pole in normal soil is approximately 10% of the pole length plus 2 feet. Thus a 40-foot pole will be set 6 feet into the ground with 34 feet remaining above ground; and a 45-foot pole will be set 6 1/2 feet deep with 38 1/2 feet above ground.

#### 4. Joint Use Agreements

Some of the joint use agreements do not match all conditions set forth in the EU section of the distribution construction standards. A specific joint use agreement may spell out a different method of sharing costs of taller poles. In that case, the agreement takes precedence over this standard.

#### 5. Bonding of Communication or Cable Equipment to Ground

When a pole ground is required by the communication utility and does not exist on the pole, the communication utility shall request the installation of a pole ground by PacifiCorp. This allows PacifiCorp to ground the neutral conductor attached to the pole. The communication company shall pay for all expenses incurred. At no time shall the communication utility personnel be in PacifiCorp's pole space.

#### 6. Guying and Anchoring

The communication utility shall not attach their guy wires to PacifiCorp's anchors unless explicit written permission is given for each specific location. Anchor rod auxiliary eyes are not permitted on PacifiCorp anchors. Additionally, all guy wires installed on PacifiCorp anchors to support communication utility's equipment or cable shall be insulated as defined by Rule 279A2a of the NESC and in accordance with PacifiCorp standard practice. This practice meets code and also prevents galvanic corrosion of anchors. The insulator shall meet NESC flashover and strength requirements. If, by written permission, PacifiCorp allows the guy wire to be bonded at the pole, an insulator is still required that meets NESC strength requirements as stated in NESC Rules 279A3 and 279A1c.

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**EU 101**  
Page 1 of 6

## EU 101

All guy wires attached to the communication utility's own anchors shall meet NESC requirements.

### 7. Replacing an existing pole

When PacifiCorp has need to replace an existing pole with joint use attachments and the attachment cannot immediately be transferred directly to the new pole, an alternative method of attachment may be used to reduce crew and traveling time. The following criteria must be satisfied prior to such action:

1. The pole is positioned close enough to allow attachment by this method.
2. The condition of the old pole section will maintain the integrity of the attachments.
3. No other issues are apparent that sacrifice proper clearances, safety, or working conditions.

This method of attachment should be considered temporary, and affected joint use utilities must remove their facilities within a reasonable time frame. Additionally, the last joint use utility to work on the structure must remove and dispose of the old section of the pole and DA bolts.

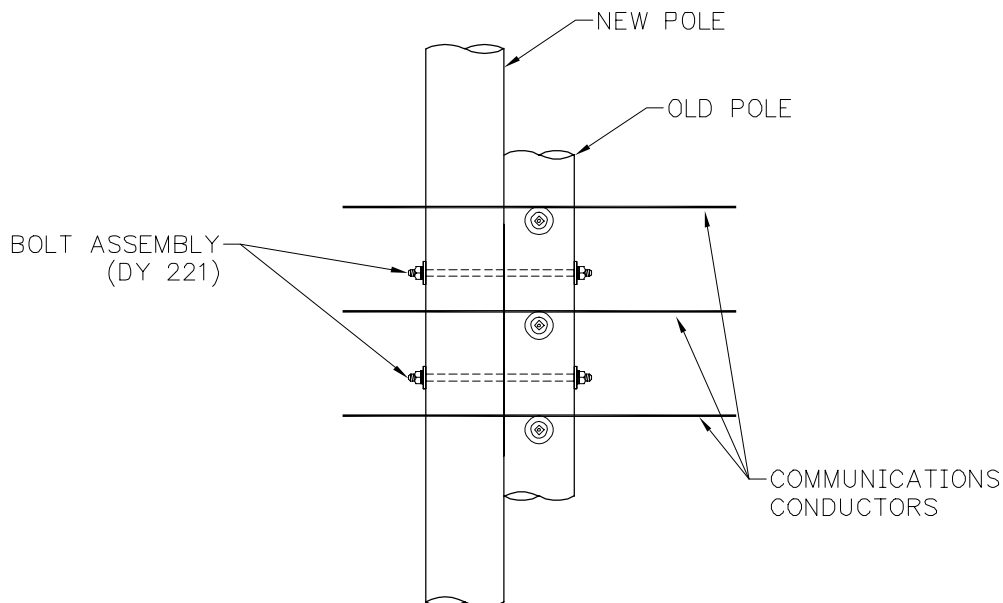


Figure 1—Pole Replacement with Existing Communications Conductors

## C. Allocation of Pole Space

### 1. Separation Space - Permitted Uses

- a) There shall be a minimum of 40 inches of clearance between the surface (not the center) of any supply system conductors or equipment (including support hardware and washers) and any communications system conductors or equipment (including support hardware and washers).
- b) Communication equipment is not permitted to be mounted in the 40-inch separation space.



EU 101  
Page 2 of 6

22 Mar 07

### Joint Use Pole Space Allocation

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- c) Street lighting fixtures may be installed in the separation space when necessary to meet mounting height requirements provided that such installations are in accordance with the NESC and other applicable codes. For details, see EU 261. In California, see EU 271.

## 2. 40-Foot Basic Pole

The allocation of space and the usual points of attachments for telephone, TV cable, and electric facilities depends on the length of the "basic pole". In some areas, the basic pole is 40 feet in length (about 34 feet above ground). Figure 1 shows the space allocations and the usual points of attachment for a 40-foot joint use pole.

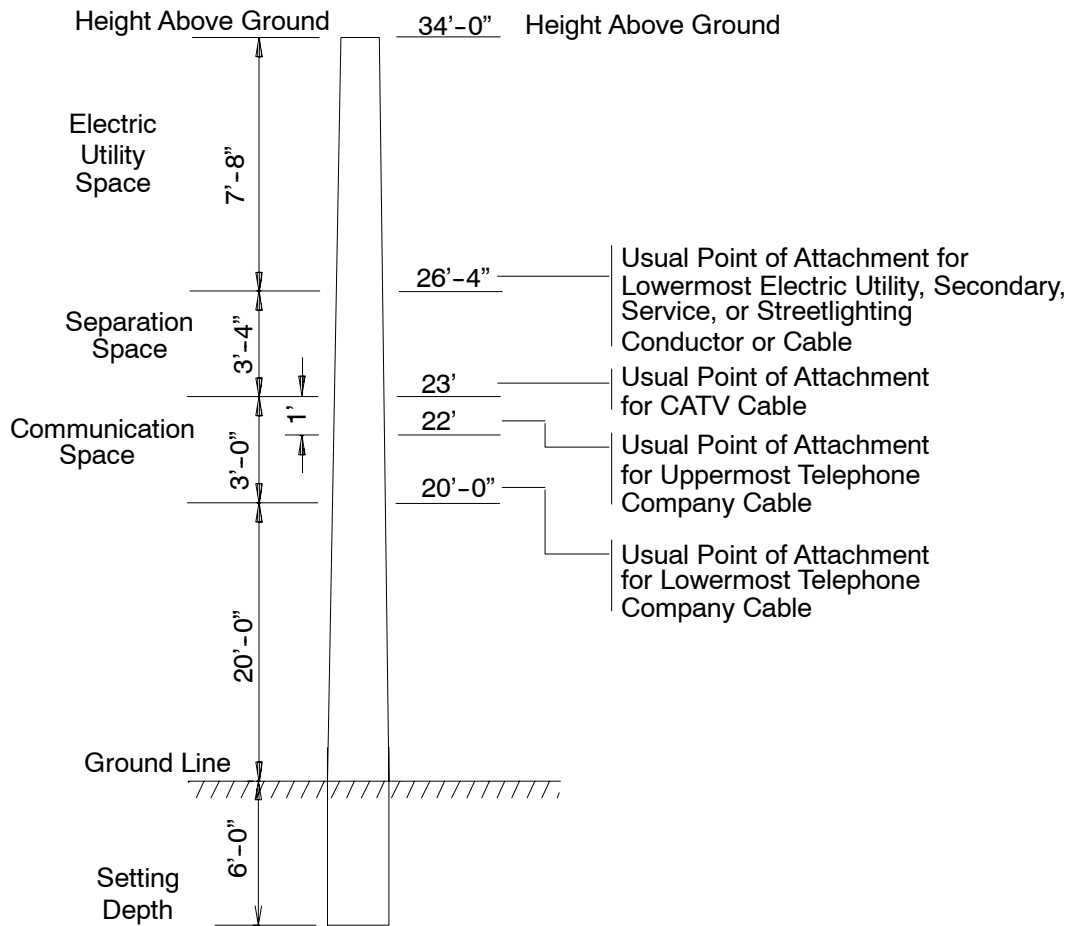


Figure 1 - Space Allocation on 40Foot Basic Joint Use Pole

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22 Mar 07

**EU 101**  
 Page 3 of 6

# EU 101

## 3. Poles Taller Than the 40-Foot Basic Pole

The company requiring extra pole height pays the extra cost and gets to use the extra height, less the 10% used by the deeper pole hole.

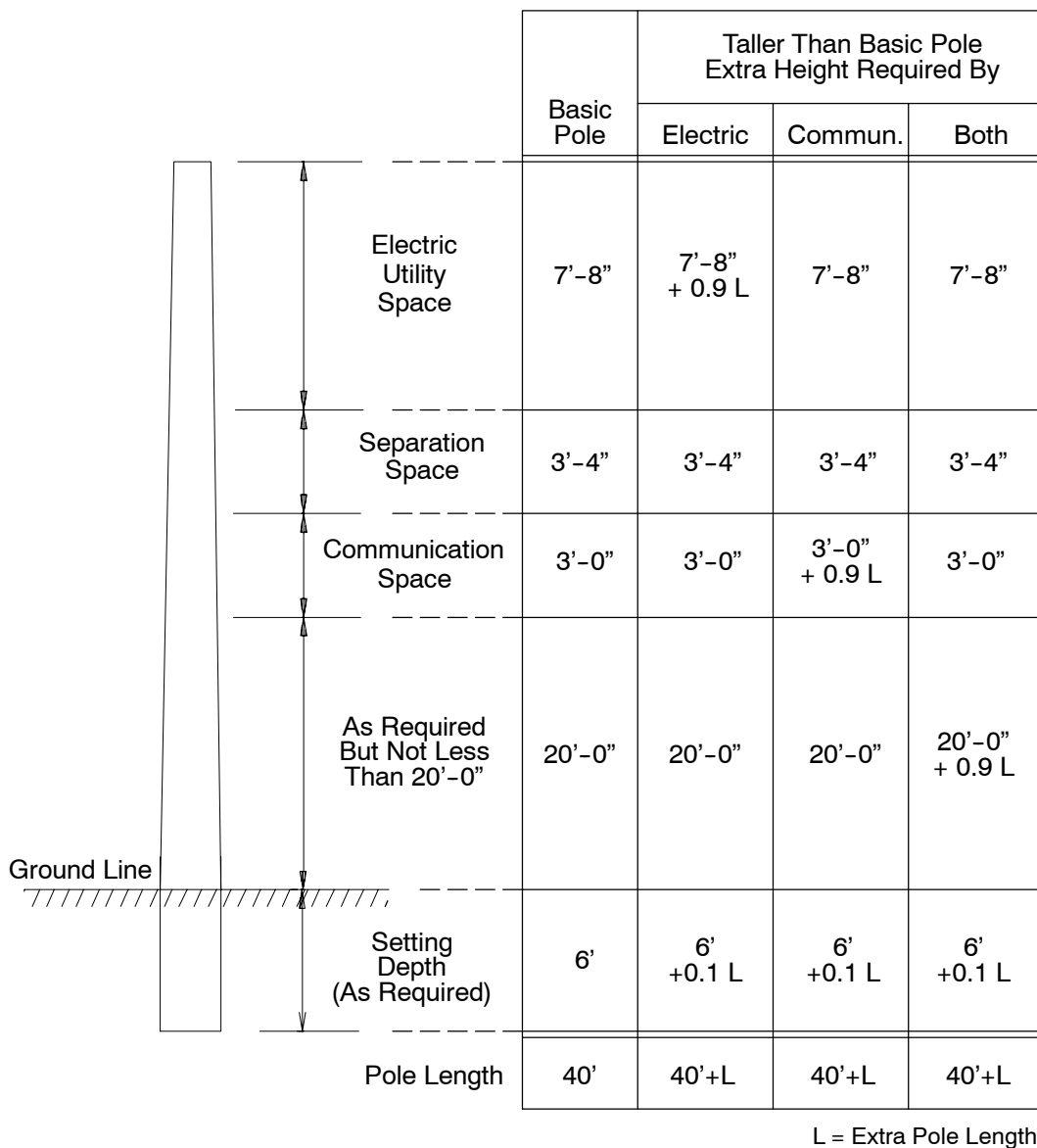


Figure 2 - Space Allocation on Poles Taller Than the 40-Foot Basic Pole



### Joint Use Pole Space Allocation

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**4. 45-Foot Basic Pole**

The allocation of space and the usual points of attachments for telephone, TV cable, and electric facilities depends on the length of the "basic pole". In many areas, the basic pole is 45 feet in length (about 38 1/2 feet above ground). Figure 3 shows the space allocations and the usual points of attachment for a 45-foot joint use pole.

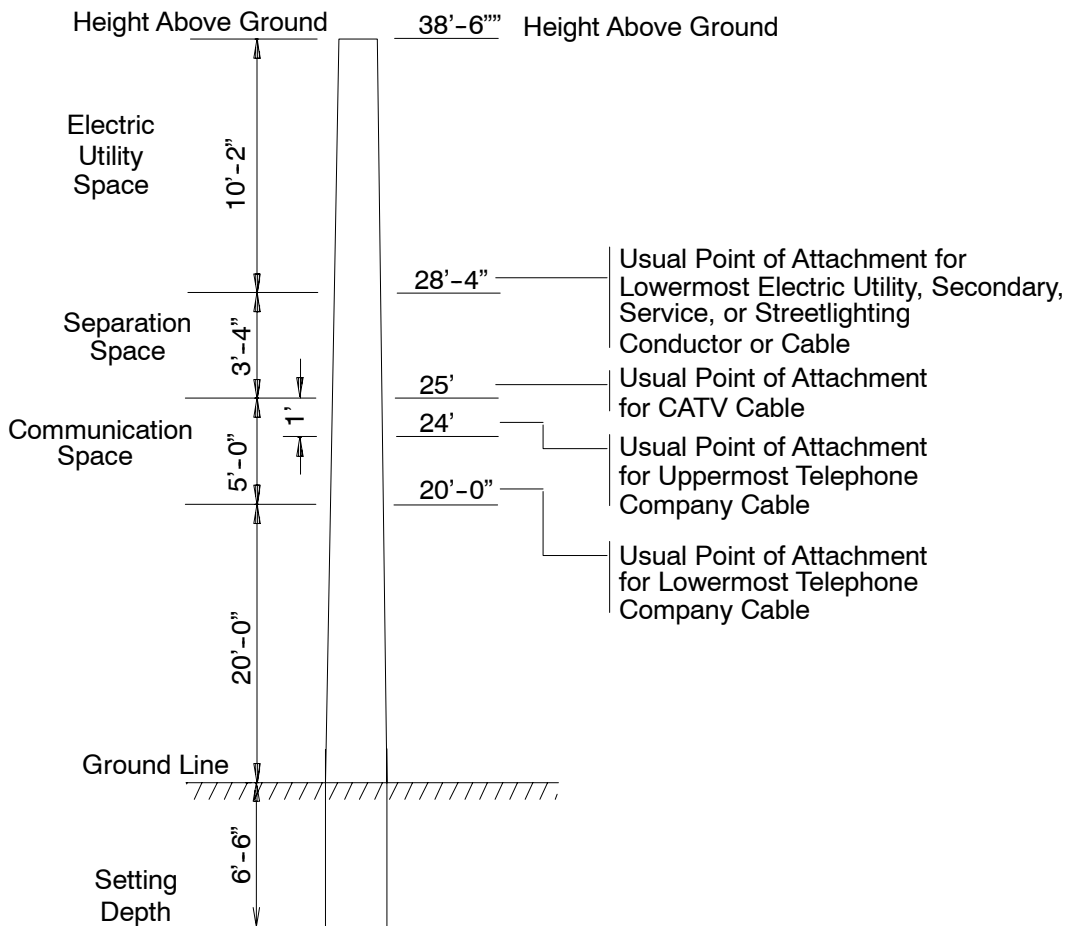


Figure 3 - Space Allocation on the 45-Foot Basic Joint Use Pole

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22 Mar 07

**EU 101**  
 Page 5 of 6

# EU 101

## 5. Poles Taller Than the 45-Foot basic Pole

The company requiring extra pole height pays the extra cost and gets to use the extra height, less the 10% used by the deeper pole hole.

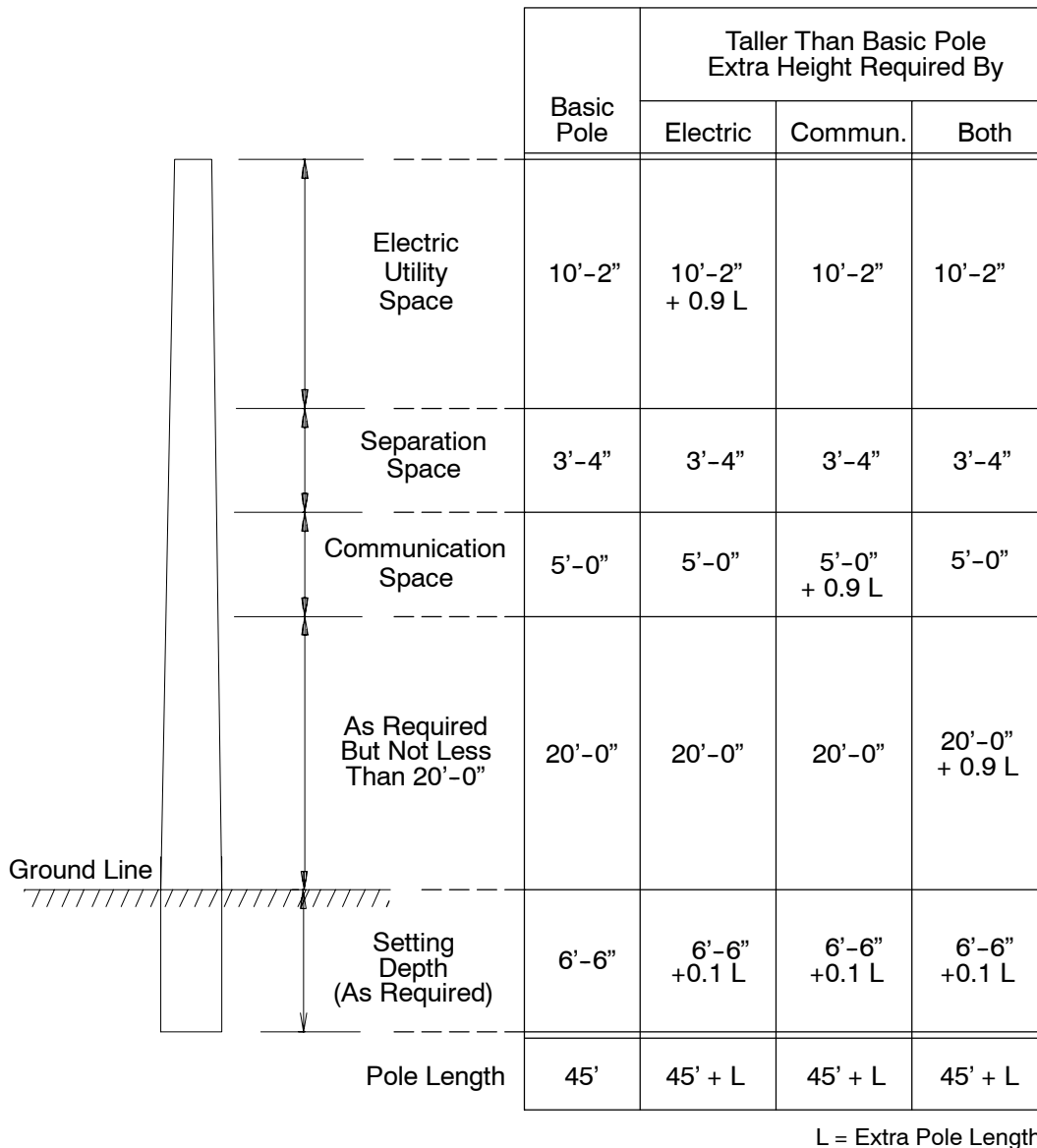


Figure 4 - Space Allocation on Poles Taller Than the 45-Foot Basic Pole



### Joint Use Pole Space Allocation

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**Joint Use—Climbing Space Through Communication Circuits**

**A. Scope**

This standard provides information defining the climbing space requirements for joint use poles through the communication circuit level. Included are communication cables, service drops and vertical runs attached to the pole.

**B. General**

The climbing space as defined is intended to provide adequate clearances on the pole for safe ascent and descent by line personnel. The climbing space must extend 40 inches above and below the referenced communication—circuit or 48” above and below in California (see Figure 1). If the climbing space is rotated around the pole for continued climbing, the climbing spaces in different quadrants of the pole must overlap.

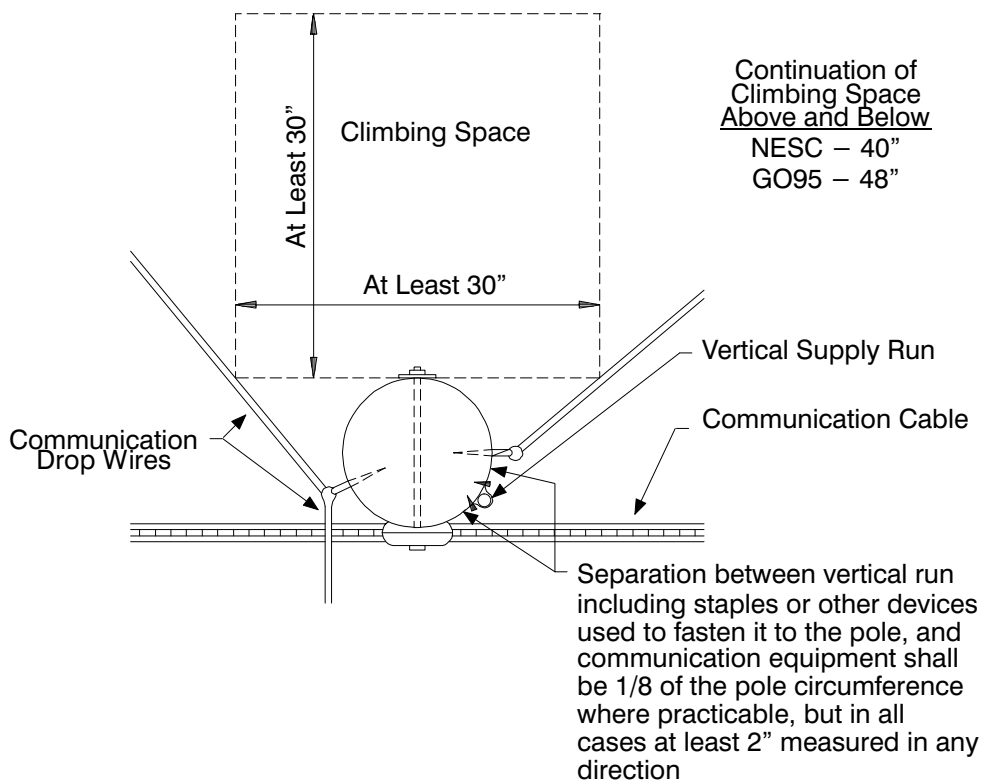


Figure 1 – Climbing Space

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**Joint Use Climbing Space Through Communication Circuits**

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**EU 211**  
Page 1 of 1

**Joint Use—Clearances, Communication to Supply Circuits**

**A. Scope**

This standard provides information regarding vertical clearances between PacifiCorp supply circuits and joint use facilities. Included are communication circuits, neutral supports and secondary supply supports.

**B. General**

The vertical clearances between company supply circuits and other utility attachments are specified in this standard.

**1. Vertical Spacing - Crossarms**

The vertical spacing requirements between company supply circuits and communication circuits varies depending upon the voltage level and NESC and/or state (California and Washington) jurisdiction (see Figure 1 and Table 1 for clearances.).

**2. Vertical Spacing - Attachments to Pole**

The vertical spacing requirements between company supply circuits attached to the pole and communication circuits depends upon the supply voltage level, effectively grounded cables and NESC and/or state (California and Washington) jurisdiction (see Figure 2 and Table 2 for clearances).

**3. Open Wire Communications Circuits**

It is not intended that there be any new joint use poles with open wire communications circuits. Clearance to these circuits is shown because some of this type of construction still exists.

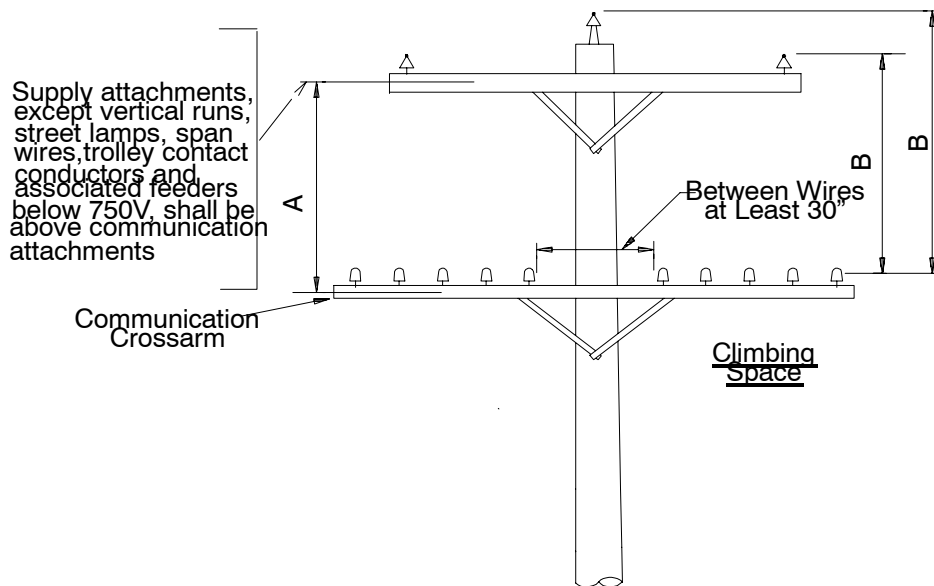


Figure 1 - Vertical Spacing of Crossarms and Circuits, Communication & Supply

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**Joint Use—Clearances, Communication to Supply Circuits**



8 Nov 07

**EU 221**  
Page 1 of 4

# EU 221

Table 1 - Vertical Clearance Between Supply and Communication Facilities

Voltage of Supply Circuit	Min. X-arm Spacing (In.) (Dimension A)	Min. Conductor Spacing (In.) (Dimension B)
NESC [1]		
0-8700	48	40
8700-50000	72	60
Washington [2]		
0-7500	48	40
Over 7500	84	84
California [2]		
0-7500	48	48
7500-75000	72	72

- [1] Voltage is to ground if an effectively grounded circuit, otherwise voltage is highest voltage between any two conductors.
- [2] Voltage is highest voltage between any two conductors.

California G. O. 95 exceptions, Dim. A Rule 92.1B  
 0-750V supply on racks—A = 72"  
 Supply cables—A = 48"

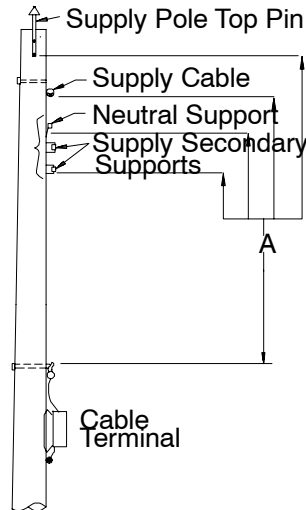


Figure 2 - Vertical Clearances Between Conductors and Noncurrent Carrying Metal Parts of Communication Equipment and Supply Circuits

Table 2 - Vertical Clearances Between Conductors and Noncurrent Carrying Metal Parts of Communication Equipment and Supply Circuits

Dim. A	Washington		NESC		California	
	Voltage of Supply [2] Circuit Concerned	Min. Clearance Inches	Voltage of Supply [1] Circuit Concerned	Min. Clearance Inches	Voltage of Supply [2] Circuit Concerned	Min. Clearance Inches
A	0- 7500	40	0-8700	40	0-7500	48
	Over 7500	84	Over 8700	60	7500-75000	72



## Joint Use—Clearances, Communication to Supply Circuits

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**EU 221**

- ① Voltage is to ground if an effectively grounded circuit, otherwise same as ②.  
 ② Voltage is highest voltage between any two conductors.

**4. Horizontal Spacing**

The preferred method of attaching communications cables to poles is to utilize one side of the pole with 12" minimum vertical separation between cables. This allows climbing on the other side of the pole. However, in certain circumstances, PacifiCorp will allow installation of communications cables on both sides of a pole, as long as there is a minimum of 30" horizontal separation between wires for climbing. This separation can be obtained by using fiberglass arms, strong enough to handle physical loads upon them and long enough to provide the needed 30" separation at the point of attachment to the pole (see Figure 1 and Figure 3).

(If Figure 1 is the attachment method being used, 30" horizontal measurements are required between cables. This measurement applies to any cables attached to the crossarm, but must also take into consideration any cable attached directly to the pole.)

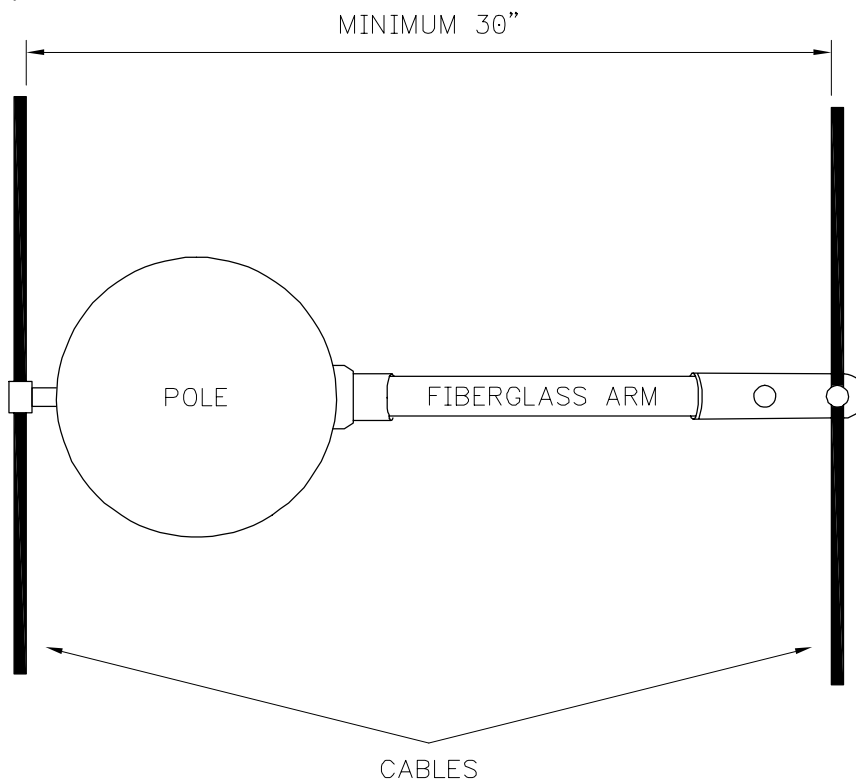


Figure 3 - Horizontal Spacing Using Fiberglass Arm

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**Joint Use—Clearances,  
Communication to  
Supply Circuits**



8 Nov 07

**EU 221**  
Page 3 of 4

**EU 221**

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**EU 221**  
Page 4 of 4

8 Nov 07

**Joint Use—Clearances,  
Communication to  
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**Joint Use—Clearances, Communication Above Ground, Roadway or Water****A. Scope**

This standard provides information regarding the minimum clearance required between joint use facilities attached to PacifiCorp structures and ground, roadways, and waterways.

**B. General**

The vertical clearances of all facilities attached to PacifiCorp structures must meet or exceed the minimum requirements of the National Electrical Safety Code (ANSI C2, current edition), and any applicable state or local codes and the requirements of the PacifiCorp construction standards. These requirements shall apply to communication circuits, fiber optic lines, cable television circuits, messenger wires, guy wires and any other foreign owned facilities attached to PacifiCorp equipment.

In the event that the owner of a foreign facility is not a public utility company, then the attached facility must also comply with the provisions of the National Electrical Code (NFPA 70).

**C. Application**

1. Clearances shall be maintained at maximum loading conditions as defined by NESC rule 232.
2. PacifiCorp clearance requirements are found in section DC of the Distribution Construction Standards. PacifiCorp ground clearance requirements are found in section DC 111.
3. In the event of conflicting requirements, the requirement which provides more clearance shall apply.

**D. Special Requirements by State****1. Utah**

For state and federal highways, the following requirements are to be followed:

- a) At intersections, minimum clearances are the applicable NESC clearance plus 13 feet.
- b) At other points adjacent to or crossing a state highway, minimum clearances are NESC clearances plus 8 feet.
- c) Crossing any public roadway, the minimum ground clearance is 18 feet.

**2. Washington**

Along or crossing a state or federal highway, 24 feet of ground clearance is required.

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Communication Above  
Ground, Roadway or  
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17 Mar 00

**EU 231**  
Page 1 of 2



**EU 231**

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**EU 231**  
Page 2 of 2

17 Mar 00

**Joint Use—Clearances,  
Communication Above  
Ground, Roadway or  
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**Joint Use—Clearances, Communication Equipment to Risers**

**A. Scope**

This standard provides information regarding the location of risers and vertical runs on joint use poles. Included are company owned supply risers, communication risers and ground conductors.

**B. General**

Risers and vertical runs on joint use poles shall be located on poles so as to minimize congestion, provide adequate climbing space and meet clearance requirements. Whenever practicable, risers and vertical runs shall be located on the 'away from'-traffic side of the pole. If supply and communication risers are required on the same pole, they should be installed in the same quadrant away from the climbing space. For typical arrangement of joint risers, see Figure 1. For preferred arrangements of risers and vertical runs on joint poles, see Figure 2. Supply cable risers shall be installed in approved protective conduit (see standard GC 051). Supply cable carried vertically through communication attachments and supply circuits shall be attached to the pole so as to meet or exceed minimum NESC clearance requirements in all areas (see Figure 3).



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# EU 241

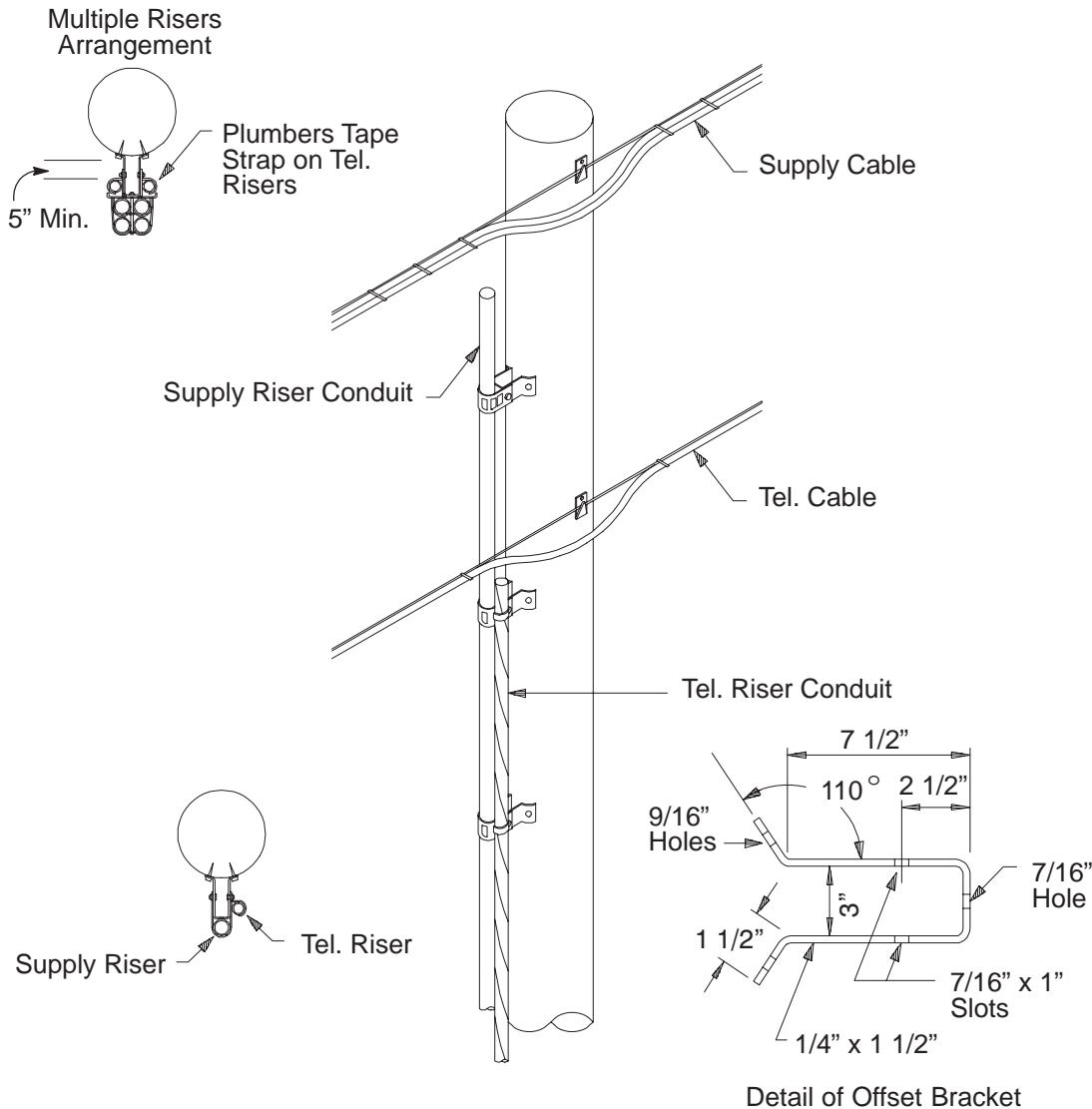


Figure 1 – Typical Arrangement of Supply and Communications Risers

**NOTES:**

1. Arrangement for joint use of offset bracket for support of one supply riser and one communications riser. The actual offset bracket may be another approved style. Two or more supply riser conduits will always be on offset brackets, in which case the communications riser or risers shall also be on the brackets.
2. All supply riser conduits shall be supported by offset brackets. Multiple risers, supply or communication or both shall be combined on a riser offset bracket. If a supply riser is installed on an offset bracket, the communication riser shall also be on the offset bracket.
3. Spacing between brackets shall not exceed 10 feet and provide as much clearance as possible between pole and conduit surfaces but not less than 5 inches.



EU 241  
Page 2 of 4

17 Mar 00

**Joint Use  
Clearances,  
Communication  
Equipment to Risers**

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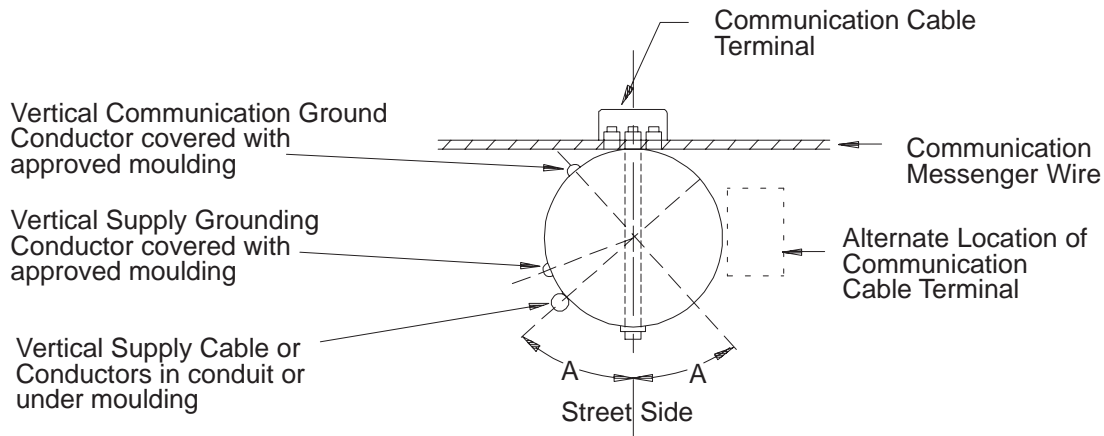
**EU 241**


Figure 2 – Preferred Locations for Risers, etc. on Joint Use Poles

**NOTES:**

1. Whenever practicable, angle A should be approximately 45 degrees. The risers and vertical runs shall be located on the low side of raked and other non-vertical poles.
2. All supply riser conduits shall be supported by offset brackets. Multiple risers, supply or communication or both shall be combined on a riser offset bracket. If a supply riser is installed on an offset bracket, the communication riser shall also be on the offset bracket.
3. Spacing between brackets shall not exceed 10 feet and provide as much clearance as possible between pole and conduit surfaces but not less than 5 inches.
4. The clearance between supply hardware and communications hardware shall be as much as practicable but in no case less than 2 inches in any direction, except if all the following applies:
  - a) The systems and applicable codes involved would permit grounding of the hardware.
  - b) The hardware involved in the reduced clearance is effectively grounded at the location.
  - c) The hardware involved is mechanically and electrically securely bonded.

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Construction Standard**

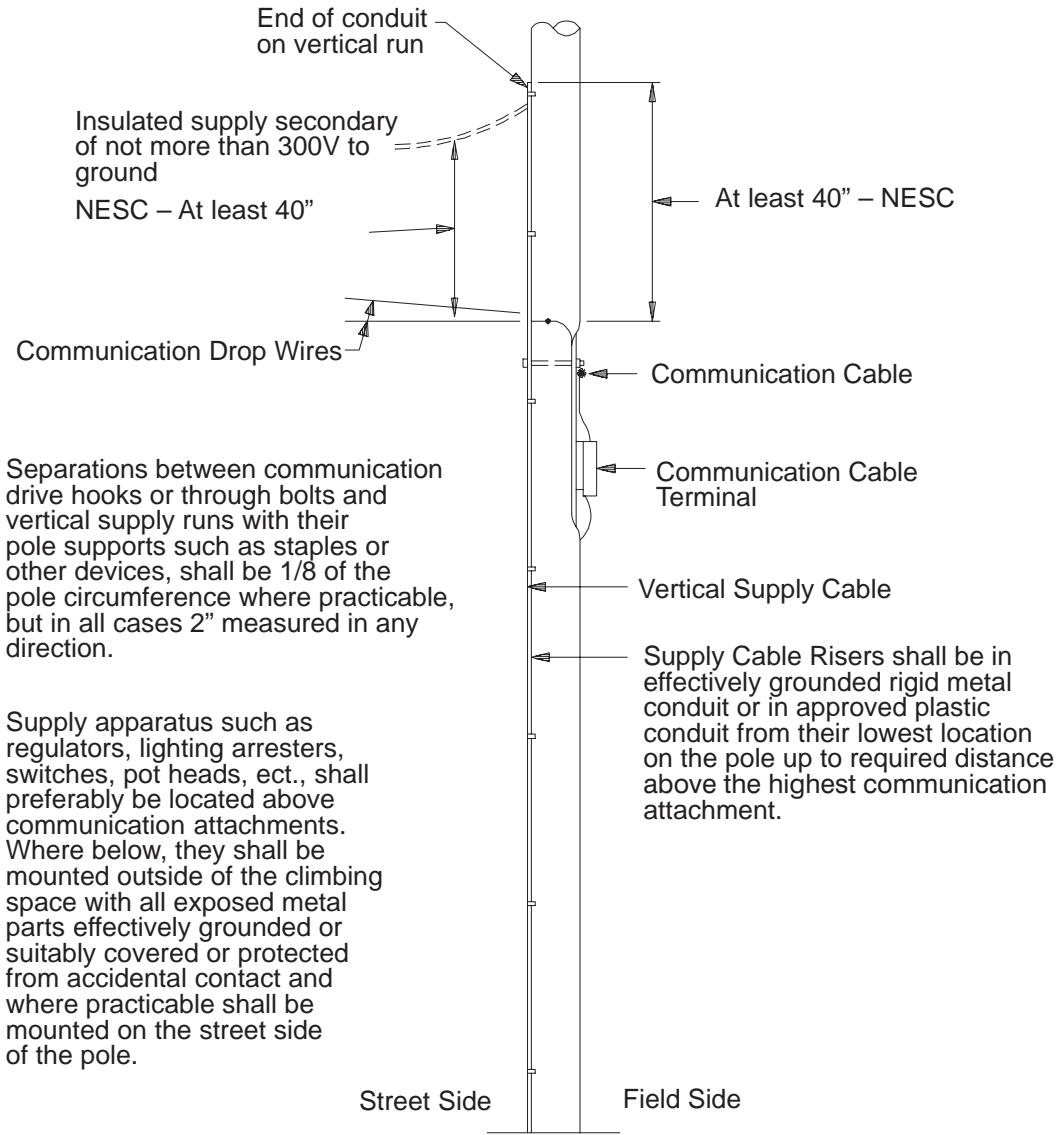
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**EU 241**  
Page 3 of 4

# EU 241



Separations between communication drive hooks or through bolts and vertical supply runs with their pole supports such as staples or other devices, shall be 1/8 of the pole circumference where practicable, but in all cases 2" measured in any direction.

Supply apparatus such as regulators, lighting arresters, switches, pot heads, ect., shall preferably be located above communication attachments. Where below, they shall be mounted outside of the climbing space with all exposed metal parts effectively grounded or suitably covered or protected from accidental contact and where practicable shall be mounted on the street side of the pole.

Figure 3 – Supply Riser on Joint Use Pole

**Joint Use—Clearances, Communication Equipment to Transformers**

**A. Scope**

This standard provides information regarding clearances between communication cables and supply transformers attached to joint use poles.

**B. General**

Clearance requirements between communication cables and supply transformers vary according to geographic location and supply system voltage. For typical joint pole arrangement with supply transformer, see Figure 1. NESC and WAC (Washington) supply transformer clearances are identical (see Table 1).

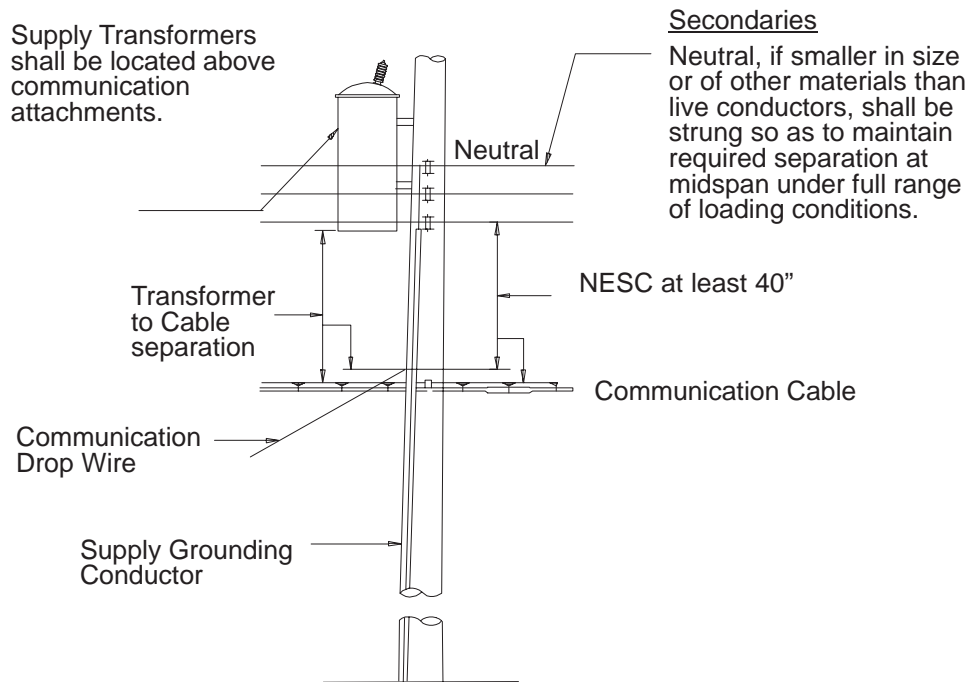


Figure 1 – Clearances Between Transformers and Communications Cables

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**EU 251**  
 Page 1 of 2

# EU 251

Table 1 – Clearance from Transformers for Communication Cables

Transformer Primary Voltage	Minimum Clearance In Inches
NESC & Washington	
0–8700	40 <sup>1</sup>
8700–50000	60 <sup>1</sup>

**NOTES:**

- <sup>1</sup> If transformer cases are effectively grounded, these clearances may be reduced to 30 inches.
- <sup>2</sup> With guard arm above communication cable, may be reduced to not less than 48 inches.





**EU 251**  
Page 2 of 2

17 Mar 00

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Clearances, Communication  
Equipment to Transformers**

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**Joint Use—Clearances, Communication Equipment to Street Lights**

**A. Scope**

This standard provides information regarding vertical clearances between street lights and joint use facilities. Included are clearances from communication circuits and cable T.V. to street lights and street lighting supply drip loops.

**B. General**

The vertical clearances between street lights, street lighting service drip loops, and communication facility attachments are specified in this standard.



**1. Vertical Clearance—Communication Cable**

The vertical clearances required between street lighting equipment and communication cables attached to the pole are defined on pages 2 and 4 of this standard. Street lighting may be installed above or below the communication level, provided that required clearances shown on pages 2 through 5 are met.


**2. Vertical Clearance—Open Wire Telephone on Crossarm**

The vertical and horizontal clearances required between street lighting equipment and open wire communication circuits on wood crossarm are defined on pages 3 and 5 of this standard. Street lighting may be installed above or below open wire communication circuits provided that required clearances shown on pages 2 through 5 are met.

**Applicable in All States**

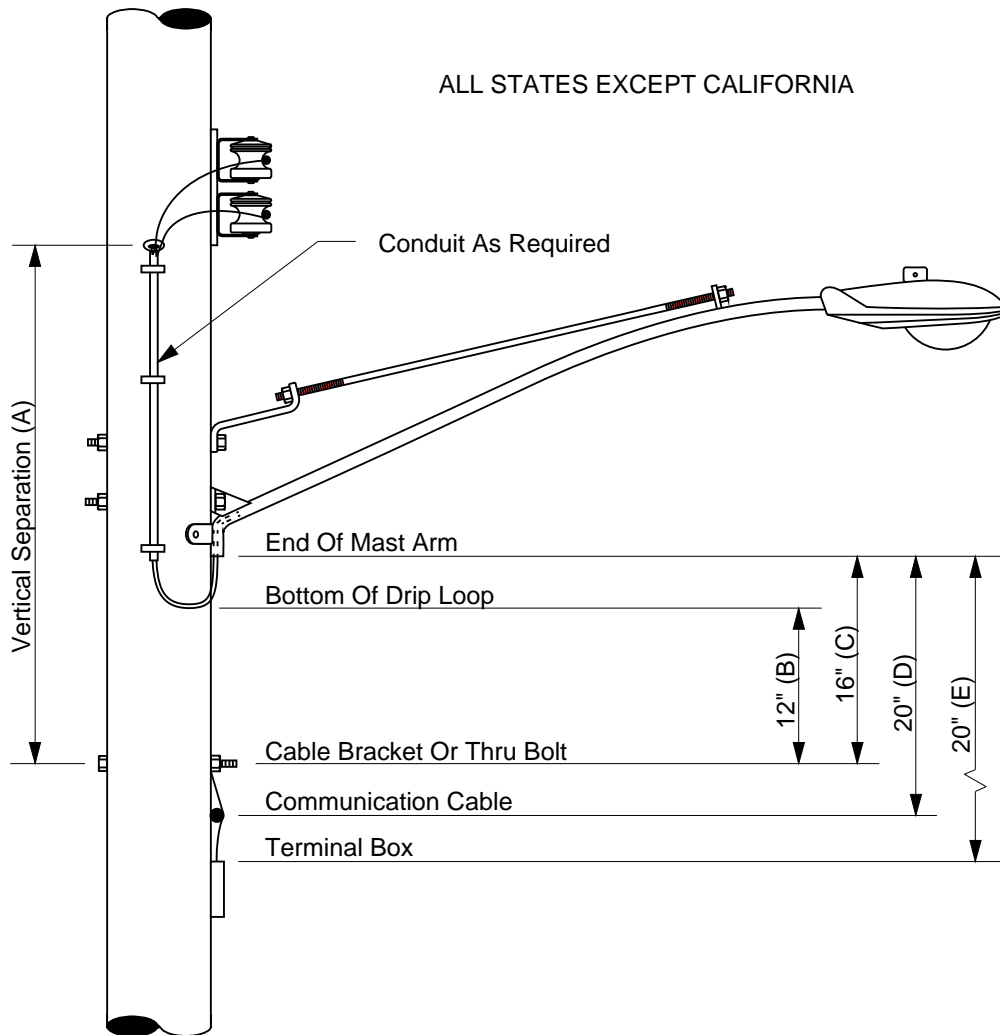
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**Joint Use Clearances, Communication Equipment to Street Lights**

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 Page 1 of 6



# EU 261



**NOTE:**

- A. Vertical Separation (NESC SEC. 23, #238-1)**  
 40" If supply voltage is 0 – 8700 V  
 60" If supply voltage is over 8700 V
- B. Separation from Drip Loops of Street Light Brackets (NESC SEC. 23, #238.D)**
- C. Separation from Communication Brackets (NESC SEC. 23, #238.2)**
- D. Separation from Messengers Carrying Communication Cables (NESC SEC. 23, #238.2)**
- E. Separation from Terminal Box of Communication Cable (NESC SEC. 23, #238.2)**

EXCEPTIONS TO CLEARANCE REQUIREMENTS  
 AND ADDITIONAL NOTES, SEE PAGE 6

Figure 1 – Street Lighting Facilities Above Communication



**EU 261**  
 Page 2 of 6

17 Mar 00

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 Clearances,  
 Communication  
 Equipment to Street Lights**

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