



**SERVICE - OVERHEAD**  
Attachment  
Customer's Premises

10-01-08  
**ER 19-290-B**  
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**USE:** Requirements for overhead attachments at the customer's premises.

<b>PREVIOUS REVISION</b> 07-01-98	<b>ORIGINATED</b> 03-94	<b>PREVIOUS NUMBER</b> ER 1-305-A, 08-01-89
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**LATEST REVISION:** The clearance required for service drop conductors over roofs has changed from 2.45m (8ft) to 3.0m (10ft). Added Section 2.3 to clarify a readily accessible entry to a roof, balcony, porch, or attached deck.

**REFERENCE:** National Electric Code (NEC), Articles 230, 800, & 820; latest edition.  
National Electrical Safety Code (NESC), Section 23, Section 234; latest edition.

**SPECIFICATION:**

**1. SERVICE BRACKET OR RACK:**

The Company (NIPSCO) will furnish and install a service bracket or rack on all buildings with wooden exteriors. The contractor or the customer shall install and provide a safe and adequate anchorage for the service drop attachment on building constructed of tile, stucco, concrete, asbestos shingles, plastered metal lath, brick or stone veneer, sheet iron, vinyl, aluminum, or insulite. The Company will furnish the service bracket or rack for the customer or contractor to install.

**2. SERVICE DROP CLEARANCE:**

2.1 The service bracket or rack shall be so placed as to maintain a clearance of at least twelve (12) inches between the service drop conductors and any existing catv, telephone, signal wires, cables, and three (3) feet from building fixtures such as fire escapes, porches, windows, doors, stairways, and so forth.

2.2 The service drop conductors must clear ground, sidewalks, and all platforms and projections from which they may be reached, by at least ten (10) feet; residential driveways by at least twelve (12) feet; and driveways on other than residential property, alleys and public roads, by at least eighteen (18) feet; also they must have a clearance of at least ten (10) feet from the highest point of roofs, balconies, porches, or attached decks over which they may pass, except where the voltage between conductors does not exceed 300 volts and the roof, balcony, porch, or attached deck cannot be readily accessible, the clearance may not be less than three (3) feet.

2.3 A roof, balcony, porch, or attached deck is considered readily accessible to pedestrians if it can be casually accessed through a doorway, window, ramp, stairway, or permanently mounted ladder by a person, on foot, who neither exerts extraordinary physical effort nor employs tools or devices to gain entry. A permanently mounted ladder is not considered a means of access if its bottom rung is 2.45 m (8 ft) or more from the ground or other permanently installed accessible surface.

**3. SERVICE MAST:**

3.1 If due to the wall height or the position of eaves the service bracket or rack cannot be mounted on the wall at sufficient height to provide the service drop conductor clearance stated above. Then a suitable support for the service drop conductors of ample strength to hold the strain of the Company's wires shall be provided by the customer. A service mast or service entrance riser should be used for this purpose. The mast or riser shall consist of an underwriter's

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approved galvanized steel assembly or may be field constructed with rigid galvanized steel conduit and other approved materials and fittings. The mast or riser will constitute the entrance run and a rainproof service head must be used at the top.

- 3.2 The mast shall be solidly blocked with 2 in. x 6 in. notched blocks spiked to the roof rafters or clamped to a steel plate that is securely fastened to the roof rafters. The mast shall be flashed where it passes through the roof with metal flashing and flashing compound.
- 3.3 The size of the service mast shall be determined from the table below. Depending upon the size of the service entrance, distance from the company pole, and the height of the service drop attachment above the top mast support.

**SERVICE MAST - MINIMUM SIZE**

Maximum Height of Service Drop Attachment Above Top Mast Support	Maximum Distance Mast to Nearest Pole	Minimum Service Mast Inside Diameter for Service Entrance	
		100 Amp or less	200 Amp
Inches	Feet	Inches	Inches
18	50	1-1/2	2
	75	1-1/2	2
	100	2	2
	125	2	2-1/2
	135	2	2-1/2
24	50	1-1/2	2
	75	2	2-1/2
	100	2	2-1/2
	125	2-1/2	2-1/2
	135	2-1/2	2-1/2
30	50	2	2-1/2
	75	2	2-1/2
	100	2-1/2	2-1/2
	125	2-1/2	3
	135	2-1/2	3
36	50	2	2-1/2
	75	2-1/2	2-1/2
	100	2-1/2	3
	125	2-1/2	3
	135	3	-
42	50	2	2-1/2
	75	2-1/2	3
	100	2-1/2	3
	125	3	-
	135	3	-