

EFFECTIVE: September 1, 2006

A114. OBSOLETE SERVICE OFFERINGS - AUXILIARY EQUIPMENT

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A114.1 (DELETED)

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A114.1 Reserved For Future Use

A114.2 Reserved For Future Use

A114.3 Reserved For Future Use

A114.4 High Voltage Protection Equipment

(Obsoleted 9/1/2005, Type B – Not available for new installations, additions or on transfers of service to new location.)

A114.4.1 General

- A.** Company services extending to electric power generating and distributing locations may require special equipment to isolate or neutralize the environmental hazards experienced when ground potentials rise due to faults in the electric power system.
- B.** This offering may require high voltage protection equipment at the customer's premises, the Company central office, and/or at a remote drainage location.
- C. Responsibility Of The Customer**
 - 1. The customer shall be responsible for notifying the Company that the location of the requested service requires high voltage protection.
 - 2. The customer shall be responsible for furnishing, upon request, the technical data needed by the Company to determine the type of service required. The following types of service will be offered.
 - Type 1a - For Exchange or Private Line telephone service requiring both AC and DC transmission which can tolerate service interruption during and following a power fault, where the maximum ground potential rise (GPR) does not exceed 3000 VRMs, and where all services entering a given location are classified as Type 1a.
 - Type 1b - For Exchange or Private Line telephone service requiring both AC and DC transmission which can tolerate service interruption during and following a power fault, where the maximum GPR does not exceed the limits defined in A114.4.2 following.
 - Type 2 - Services requiring both AC and DC transmission and which cannot tolerate interruptions, i.e., pilot wire relaying with DC supervision.
 - Type 3 - Services which employ AC transmission only and are moderately noise sensitive, i.e., telemetering or supervisory control circuits.
 - Type 4 - Services which are very noise sensitive, employing AC transmission only and cannot tolerate interruptions, i.e., audio tone relaying.
 - 3. The customer shall also be responsible for furnishing, upon request, the technical data needed by the Company to determine the degree of protection which should be furnished for any particular service location.
 - 4. The customer shall be responsible for notifying the Company if technical data regarding an electrical power generating or distributing location changes to the extent that the protection required will change.
 - 5. No service will be designated Type 1a if there is on the same premises any circuit which is Type 1b, 2, 3 or 4. A circuit may be designated Type 1a if and only if all circuits to the premises are Type 1a. When a Type 1b, 2, 3 or 4 circuit is provided at a location which has on its premises a Type 1a circuit, the Type 1a circuit will be redesignated Type 1b and charges will be applied as specified in A114.4.2 following.
- D. Determination Of Protection Required:**
The Company shall determine from data furnished by the customer the proper method of protection to isolate or neutralize the electrical hazard.
- E. Provision Of Equipment**
As an option, the customer may furnish the equipment at his premises to isolate or neutralize electrical hazards. However, the high voltage protection equipment at the customer's premises will be provided either all by the Company or all by the customer.
If the customer provides the high voltage protection equipment at his premises, it must meet the technical criteria prescribed by the Company. The Company will inspect and verify the protection equipment when service is established at a new or existing location, and at such times as deemed necessary with additions or rearrangements at an existing location.
When the customer provides the high voltage protection equipment at his premises, the Company will provide the necessary additional protection equipment at the Company central office and/or at the remote drainage location. Charges for these arrangements are outlined in A114.4.3.
When the customer provides the terminating equipment or system at his premises, charges for the appropriate connecting arrangement will be applicable as outlined in Section A15.

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A114.4 High Voltage Protection Equipment (Cont'd)

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A114.4.2 Rates And Charges

The following rates and charges are applicable for high voltage protection equipment furnished by the Company. These arrangements will be necessary for protection on both exchange and private line services. Where the Company provides the high voltage protection equipment, it will consist of neutralizing or isolating transformers (A114.4.2.B following) and miscellaneous equipment (B. following) at the terminal and/or at a remote drainage location as appropriate for the type of service at that location.

The per circuit charges for high voltage protection equipment as specified following apply to two-wire circuits only. When high voltage protection is required on four-wire circuits, the monthly rate shall be determined by applying the monthly rate for two (2) two-wire circuits. The installation charges for a four-wire circuit are the same as those specified for a two-wire circuit.

A. Neutralizing Or Isolating Transformer

1. Type 1a service providing protection suitable for exchange or private line service which can tolerate occasional circuit outages.

	Installation Charge	Monthly Rate	USOC
(a) With maximum ground potential rise (GPR) of 3000 Vrms	\$ -	\$ -	NA

2. Type 1b service providing protection suitable for exchange or private line service which can tolerate occasional circuit outages with maximum GPR of:

(a) (DELETED)				(D)
(b) 4000 Vrms - Each additional circuit at the same location	45.00	15.75	VP5	
(c) (DELETED)				(D)
(d) (DELETED)				(D)
(e) For protection greater than 8000 Vrms (Based-On-Cost)	-	-	NA	

3. **(DELETED)**

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4. Types 3 or 4 service providing protection suitable for exchange or private line service with maximum GPR of:

(a) 9000 Vrms - First circuit at a location	45.00	40.00	VPJ
(b) 9000 Vrms - Each additional circuit at the same location	45.00	28.00	VPK
(c) For protection greater than 9000 Vrms (Based-On-Cost)	-	-	NA

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A114.4 High Voltage Protection Equipment (Cont'd)

A114.4.2 Rates And Charges (Cont'd)

B. Miscellaneous Equipment

- 1. For Types 1b, 2, 3 or 4 service at the customer's premises

	Monthly Rate	USOC
(a) Equipment for the first group of 10 circuits or fraction thereof at a location	\$9.40	VPM

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- 2. For Types 1a, 2, 3 or 4 service at the remote drainage point

(a) Equipment for the first group of 10 circuits or fraction thereof at a location	7.50	VPO
(b) Equipment for each additional group of 10 circuits or fraction thereof at the same location	6.00	VPP

- C. The charges in A114.4.2. preceding do not include costs associated with the provision of transmission and/or remote ground channels. These channels, when provided as dedicated facilities, will be based on cost. When a regular distribution cable is used, charges for channels will be applicable as outlined in the Private Line *Guidebook*.

The Company will not begin billing for high voltage protection arrangements at a location until the Company has inspected and verified that all high voltage protection requirements have been met at that location.

A114.4.3 Customer-Provided High Voltage Protection Equipment

- A. The following rates and charges are applicable for equipment provided by the Company at the Company Central Office and/or at the remote drainage location in conjunction with high voltage protection equipment furnished by the customer.

	Monthly Rate	USOC
1. (DELETED)		
2. Miscellaneous equipment for Types 1a, 2, 3 or 4 service at the remote drainage location		
(a) Equipment for the first group of 10 circuits or fraction thereof at the same location	\$7.50	VPO
(b) Equipment for each additional group of 10 circuits or fraction thereof at the same location	6.00	VPP
3. For protection greater than maximum GPR stated in A14.2.A. preceding		
(a) Each (Based-On-Cost)	-	NA
4. An initial charge for inspection and verification of customer-provided equipment installations is applicable for existing and new service locations.		

	Nonrecurring Charge	USOC
(a) Inspection and verification charge	\$150.00	NA
5. A charge is applicable for inspection and verification of customer-provided equipment installation of Types 1b, 2, 3 or 4 service on a subsequent visit at the same location.		
(a) Inspection and verification charge per additional or rearranged circuit (maximum charge of \$150.00 per subsequent visit)	37.50	NA

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- B. The charges in A114.4.3. preceding do not include costs associated with the provision of transmission and/or remote ground channels. These channels, when provided as dedicated facilities will be based on cost. When a regular distribution cable is used, charges for channels will be applicable as outlined in the Private Line *Guidebook*. (T)

The Company will not begin billing for high voltage protection arrangements at a location until the Company has inspected and verified that all high voltage protection requirements have been met at that location.

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