
A114. OBSOLETE SERVICE OFFERINGS - AUXILIARY EQUIPMENT

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A114.1 Reserved For Future Use

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A114. OBSOLETE SERVICE OFFERINGS - AUXILIARY EQUIPMENT

A114.2 Reserved For Future Use

A114.3 Reserved For Future Use

A114.4 High Voltage Protection Equipment

(Obsoleted 9-1-2005, Type B, *Guidebook* Reference A14.)

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A14.4.1 General

- A.** Communications service provided at locations subject to ground potential rises (GPR) in excess of 300 Vrms may require special protection equipment to isolate or neutralize the hazard to personal safety and continuity of service created by the GPR. This high voltage protection equipment may be required at the customer's premises, the Company central office, and/or at a remote drainage location.

- B.** This *Guidebook* is applicable only to service provided to the premises where electric power supply equipment and/or facilities causing the hazard is located.

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- C.** Charges are not applicable at the premises where the GPR is in excess of 300 Vrms because of power generating or distribution activities of another party at a nearby location.

D. Responsibility Of The Customer

1. The customer requesting telephone service at a premises as specified in A114.4.1.B. preceding shall be responsible for notifying the Company at the time of the request for telephone service that the location of the requested service is subject to conditions as defined preceding.

2. The customer requesting telephone service shall be responsible for furnishing the maximum GPR at the location where telephone service is requested. This data is needed by the Company to determine the type of high voltage protection equipment required. The customer will also be responsible for advising which of the following types of service he desires the Company to provide. The following types of service are 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 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 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.A.1., 2. and 3. 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 be responsible for notifying the Company if the GPR at a service location changes to the extent that the protection required will change.

4. 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.

E. 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.

F. 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.

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

A14.4.1 General (Cont'd)

F. Provision Of Equipment (cont'd)

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 A14.4.3. following.

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.

A114.4.2 Rates And Charges¹

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 and miscellaneous equipment at the customer's premises 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) 4000 Vrms - First circuit at a location	55.00	32.00	VP3
(b) 4000 Vrms - Each additional circuit at the same location	55.00	19.25	VP5
(c) 8000 Vrms - First circuit at a location	55.00	62.00	VP9
(d) 8000 Vrms - Each additional circuit at the same location	55.00	49.50	VPA
(e) For protection greater than 8000 Vrms (Based-On-Cost)	-	-	NA

3. Type 2 service providing protection suitable for exchange or private line service which cannot tolerate interruptions with maximum GPR of:

(a) (DELETED)				(D)
(b) (DELETED)				(D)
(c) 8000 Vrms - First circuit at a location	55.00	100.00	VPD	
(d) 8000 Vrms - Each additional circuit at the same location	55.00	88.00	VPE	
(e) For protection greater than 8000 Vrms (Based-On-Cost)	-	-	NA	

Note 1: The charges in A114.4.2. and 3. 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.

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

A114.4.2 Rates And Charges¹ (Cont'd)

A. Neutralizing Or Isolating Transformer (Cont'd)

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

	Installation Charge	Monthly Rate	USOC
(a) 9000 Vrms - First circuit at a location	\$55.00	\$48.50	VPJ
(b) 9000 Vrms - Each additional circuit at the same location	55.00	34.00	VPK
(c) For protection greater than 9000 Vrms (Based-On-Cost)	-	-	NA

B. Miscellaneous Equipment

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

	Monthly Rate	USOC
(a) Equipment for first group of 10 circuits or fraction thereof at a location	\$11.25	VPM

(DELETED)

(D)

- 2. For Types 1a (Does not apply when GPR is less than 1000 volts), 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	9.20	VPO
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(DELETED)

(D)

Note 1: The charges in A114.4.2. and 3. 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.

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

A114.4.2 Rates And Charges¹ (Cont'd)

C. Customer-Provided High Voltage Protection Equipment

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)			(D)
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	\$9.20	VPO	
(DELETED)			(D)
3. For protection greater than maximum GPR stated in A114.2.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.			
(a) Inspection and verification charge		USOC	
5. A charge is applicable for inspection and verification of customer-provided equipment installation of Types 1b, 2, 3, or 4 service when added on a subsequent visit at the same location.		NA	
(a) Inspection and verification charge per additional circuit (maximum charge of \$100.00 per subsequent visit)	25.00	NA	

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Note 1: The charges in A114.4.2. and 3. 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.