

**ACCESS SERVICE**

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**5. SPECIAL ACCESS**

**5.1 General**

All terms, conditions and references in the following sheets pertain to IntraLATA and InterLATA Special Access.

The Special Access rates and charges in this section are applicable to the following Citizens Minnesota exchanges: Adams, Alden, Bigelow, Kiester, Leroy and Lyle.

Special Access rates and charges for all other Citizens Minnesota exchanges are found in Section 11.

Special Access provides a transmission path to connect CDLs\* within a Local Access and Transport Area for Intrastate Telecommunication purposes. Special Access provided to a customer may be connected directly to customer facilities, through Telephone Company Hub Wire Centers where bridging or multiplexing functions are performed and/or may be connected to access facilities of another telephone company or companies in the joint provision of Special Access Service.

The provision of Switched Access and Special Access in combination is normally for, but not limited to, the use of WATS or WATS-type Access. When Special Access is connected to Switched Access, the terms, conditions and rates for the facilities between the end user's CDL and the WATS Serving Office are as set forth in this section of the tariff; the terms, conditions and rates for the facilities between the WATS Serving Office and the IC's CDL, as well as the Switching Functionalities (e.g., end user access codes, screening) are as in Section 4.

Special Access can be provided in either analog or digital format. Analog formats are differentiated by spectrum and bandwidth. Digital formats are differentiated by bit rate. The specific types of Special Access (e.g., Voiceband, Wideband Data Service) provided are described in 5.2.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.1 Rate Elements (Cont'd)**

With the exception of Temporary Videoband Service, there are five basic rate elements which apply to Special Access Service.

Special Transport (described in 5.1.1(B) following)  
Special Transport Termination (described in 5.1.1(G) following)

Special Access Line (described in 5.1.1(C) following)

Supplemental Features (described in 5.4 following)

Multiplexing Arrangements (described in 5.5 following)

The following is a list of Open Network Architecture (ONA) Special Access Basic Service Elements (BSEs) which provide a cross-reference to the generic ONA product names.

<u>Generic Name</u>	<u>Citizens Name</u>
Access to Clear Channel Transmission	Clear Channel Capability
Automatic Protection Switching	Automatic Protection Switching
Bridging	Bridging
Conditioning	Conditioning
Data Over Voice (DOV) Service	DOV Connect
Secondary Channel Capability	Digital Data Service - Secondary Channel
Multiplexing - Digital 2000	Multiplexing Arrangements

\* Telephone Company CENTREX CO-like switches are considered to be CDLs for the purposes of this tariff.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.1 Rate Elements (Cont'd)**

(A) (Reserved for Future Use)

(B) Special Transport

- (1) The Special Transport rate element provides for the transmission facilities between the serving wire centers associated with two CDLs, between a serving wire center associated with an end user's CDL and a WATS Serving Office, between a serving wire center associated with a CDL and a Telephone Company Hub Wire Center or between two Telephone Company Hub Wire Centers. This rate element is distance sensitive and varies with type of capability (i.e., analog or digital) and type of facility (e.g., Voiceband, Wideband Data Service, etc.). Special Transport may be provided by more than one telephone company. The method of calculating applicable airline miles for rating purposes for Special Access is specified in 2.7.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.1 Rate Elements (Cont'd)**

**(B) Special Transport (Cont'd)**

- (2) Special Transport may be used in conjunction with Switched Access for the purpose of provisioning Originating Only, Terminating Only or Combined Originating/Terminating Access as in 4.2.5(V). Special Transport employed in this manner provides the FIA for the closed-end of the services between the wire center serving the end user's CDL where WATS Serving Office functions are not available and the WATS Serving Office.

When the necessary WATS Serving Office functions are not provided at the wire center which serves the end user's CDL, the Telephone Company will designate the wire center where the WATS Serving Office functions are available. The charge associated with the Special Transport may be waived as in 4.2.1(D).

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.1 Rate Elements (Cont'd)**

(C) Special Access Line

- (1) A Special Access Line provides the transmission facilities between a CDL and the serving wire center of that location. This rate element varies by type of capability (i.e., analog or digital) and type of facility (e.g., Voiceband, Wideband Data Service, etc.).

The selection of a Terminating Option, as defined in 5.3, is required for terminating the network portion of a Special Access Line at a CDL. Terminating Options provide a clearly delineated interface which facilitates the design, isolation, and testing of the Special Access.

One Special Access Line charge applies per CDL at which the facility is terminated. This charge will apply even if the CDL and the serving wire center are co-located in a Telephone Company building. The Special Access Line charge used with a Switching Interface, as set forth in (2) below is, applicable only for the transmission facilities between the end user's CDL and the serving wire center of that location.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.1 Rate Elements (Cont'd)**

**(C) Special Access Line (Cont'd)**

- (2) A Special Access Line may be provided in conjunction with FGA, FGB, FGC, FGD, BSA-A, BSA-B, BSA-C and BSA-D Switched Access Service for the purpose of Originating Only, Terminating Only, or Combined Originating and Terminating Access as in 4.2.1 and 4.2.2. A Switching Interface is required for the provision of this service as 4.2.5(V). The Special Access Line provides the closed-end of the dedicated facilities between an end user's CDL and its serving wire center. This serving wire center may or may not be a WATS Serving Office. In those instances when the serving wire center is not a WATS Serving Office Special Transport is applicable [as in 5.1.1(B)] to the nearest Telephone Company WATS Serving Office.

The Switched Access used in conjunction with the Special Access Line provides various standard switching functionalities and optional arrangements as in 4.2.5(V).

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.1 Rate Elements (Cont'd)**

(C) Special Access Line (Cont'd)

(2) (Cont'd)

All Special Access Lines used with a Switching Interface are:

- provided with dial pulse address signaling or Dual Tone Multifrequency (DTMF) address signaling and either loop start or ground start supervisory signaling. The type of signaling is the option of the customer.
- available as either a two-wire or four-wire Voiceband Special Access Service (i.e., 300-3000 Hz bandwidth). Each transmission path is provided with Standard Transmission Specifications.

All rules and regulations pertaining to Special Access are applicable to Special Access Lines used with a Switching Interface. Rates and Charges for these services are found in 5.7.5 for two-wire and four-wire Voiceband Special Access Lines.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.1 Rate Elements (Cont'd)**

(D) (Reserved for Future Use)

(E) Supplemental Features

Supplemental Features may be added to a Special Access circuit to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific facilities, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of facilities. Although the facilities necessary to perform a specified function may be installed at various locations along the path of the Special Access circuit, including the CDL, it will be provided for as a single rate element.

Examples of Supplemental Features that are available include, but are not limited to, bridging and conditioning. Each Supplemental Feature is described in 5.4 following, and rates are set forth in 5.7 following.

(F) Multiplexing Arrangements

Multiplexing provides for arrangements to convert a single higher capacity or bandwidth circuit for bulk transport to several lower capacity or bandwidth circuits. Multiplexing is only available at a Telephone Company designated Hub Wire Center arranged for multiplexing. All types of multiplexing may not be available at each Hub Wire Center. Refer to Section 5.6.6 for a description of Hub Wire Center. Descriptions for each type of multiplexing arrangement are provided in 5.5 following, and rates are set forth in 5.7 following.

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5. **SPECIAL ACCESS** (Cont'd)

5.1 **General** (Cont'd)

5.1.1 **Rate Elements** (Cont'd)

(G) **Special Transport Termination**

The Special Transport Termination rate element applies only to DS1 and DS1C service offerings. It provides the equipment and arrangements necessary to terminate the Special Transport facility at a serving wire center. One Special Transport Terminal charge applies for the termination of each end of a Special Transport facility for DS1 and DS1C services.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.2 Special Access Configurations**

There are two types of facility configurations over which Special Access Service are provided - i.e., two-point and multipoint.

(A) Two-point Service

A two-point configuration is a circuit which is provided to connect two CDLs, either directly connected or through a Hub Wire Center where multiplexing functions are performed.

All Special Access offerings may be provided as a two-point configuration.

Applicable rate elements are:

- Special Access Lines
- Special Transport (when applicable)
- Special Transport Termination (when applicable)
- Supplemental Features (when applicable)
- Multiplexing Arrangements (when applicable)

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.2 Special Access Configurations (Cont'd)**

**(A) Two-point Service (Cont'd)**

The service is provided with the supplemental feature of Type C Conditioning:

SAL - Special Access Line  
ST - Special Transport  
SWC - Serving Wire Center  
CDL - Customer Designated Location

Applicable rate elements are:

- Special Access Line (2 applicable)
- Special Transport (per airline mile between SWCs)
- Supplemental Feature of Type C Conditioning (2 applicable)

In addition, a Special Access Surcharge, as set forth in 5.6.9 following, and a Message Station Equipment Recovery Charge, as set forth in 5.6.10 following may be applicable.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.2 Special Access Configurations (Cont'd)**

**(B) Multi-point Service**

A multipoint configuration is a circuit that is provided to connect three or more CDLs through a Telephone Company Hub Wire Center.

Only Voiceband, Program Audio, Digital Data Service facilities, and Miscellaneous Services where so designated, will be provided as multipoint configurations. There is no limitation on the number of mid-links, but the use of more than three mid-links in tandem may degrade the quality of the multipoint facilities. A mid-link is defined as the Special Transport facilities between Hub Wire Centers where the circuit is bridged and/or where circuit switching devices, such as a loop transfer arrangement, are located.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.2 Special Access Configurations (Cont'd)**

**(B) Multi-point Service (Cont'd)**

Multi-point Service is provided in the following manner:

- (1) Special Access Line per CDL to their respective serving wire centers.
- (2) Special Transport between the serving wire centers associated with the CDLs and the Hub Wire Center.
- (3) Special Transport between Hub Wire Centers.
- (4) Supplemental Features: Bridging equipment charges for each bridging location and other Supplemental Features when applicable.
- (5) (Reserved for Future Use)
- (6) Multiplexing Arrangements when applicable.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.2 Special Access Configurations (Cont'd)**

**(B) Multi-point Service (Cont'd)**

Applicable rate elements are:

- Special Access Lines (4 applicable)
- Special Transport (5 segments, per airline between SWCs and HWCs)
- Bridging (6 applicable, one per bridge port)

SAL - Special Access Line

ST - Special Transport

SWC - Serving Wire Center

CDL - Customer Designated Location

HWC - Hub Wire Center

B - Bridging

In addition, the Special Access Surcharge, as set forth in 5.6.9 following, and the Message Station Equipment Recovery Charge, as set forth in 5.6.10 may be applicable.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.3 Special Facilities Routing**

A customer may request that the facilities used to provide Special Access service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are as set forth in Section 9.

**5.1.4 Design Layout Report**

The Telephone Company will provide to the customer the makeup of the Special Access provided under this tariff to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report and will include the following:

Cable gauge, length and loading.  
Makeup (e.g., T-Carrier, two-wire, four-wire, etc.)  
Specific pair of circuit assignment at the customer designated location.

The Design Layout Report will be provided to the customer within fourteen working days from the ASR Date. Updated reports will be reissued within fourteen working days whenever facilities provided to the customer are materially changed. Both the initial and updated Design Layout Reports will be provided to the customer at no charge.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.5 Acceptance Testing**

At the customer's request, the Telephone Company will cooperatively test, at the time of installation and at no additional charge, the following parameters:

- (A) For Voiceband services, acceptance testing will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise.

When the Interface Arrangement provides a four-wire voice transmission facility and the point of termination provides two-wire voice transmission (i.e., there is a four-wire to two-wire conversion at the point of termination) balance tests are also included in acceptance testing. When performing installation and acceptance testing, the Telephone Company will test the access service within the LATA.

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**5. SPECIAL ACCESS (Cont'd)**

**5.1 General (Cont'd)**

**5.1.5 Acceptance Testing (Cont'd)**

- (B) For other analog services (i.e., Program Audio, Wideband Analog, and Wideband Data Services) and for digital services (i.e., Digital Data Services and High Capacity Digital Services), acceptance testing will include tests identified in Section 5107 for the parameters applicable to the service.

When the customer requests the performance of additional cooperative tests which are not required to meet these specified performance parameters, charges as set forth in Section 6.6(B) will apply. All test results will be made available to the customer upon request.

If acceptance tests are not started within 30 minutes after pre-service tests have been completed and the customer has been notified by the Telephone Company, additional charges may apply, as set forth in Section 6.2, unless the delay is caused by the Telephone Company.

**5.1.6 Ordering Conditions**

Ordering conditions are set forth in detail in Section 3. Also included in that section, are other charges which may be associated with ordering Special Access (e.g., Service Date Change Charges, Cancellation Charges, etc.).

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**5. SPECIAL ACCESS (Cont'd)**

**5.2 Description of Special Access**

There are six generic types of Special Access offerings. They are:

- Voiceband
- Program Audio
- Wideband Analog
- Wideband Data
- High Capacity Digital
- Digital Data Service

Each type has its own characteristics, and are subdivided buy one or more of the following:

- Transmission specifications
- Bandwidth
- Speed (i.e., bit rate)
- Spectrum

The Special Access offerings described below are comprised of a combination of the rate elements described in 5.1.1 preceding. The following descriptions indicate the most effective use for each facility. Customer use for purposes other than those indicated is limited only to the extent that such use may not harm the network. Further, the Telephone Company does not guarantee transmission performance beyond the parameters identified in the descriptions.

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff.

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**5. SPECIAL ACCESS (Cont'd)**

**5.2 Description of Special Access (Cont'd)**

The customer also has the option of ordering Voiceband and analog and digital high capacity facilities to a Telephone Company Hub for multiplexing to individual channels of a lower capacity or bandwidth. Descriptions of the types of multiplexing available at the Hubs, as well as the number of individual channels which may be derived from each type of facility, are set forth in 5.5 following. Additionally, the customer may specify supplemental features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the supplemental features available are set forth in 5.4 following.

For example, a customer may order a 3.152 Mbps facility from a CDL to a Telephone Company Hub for multiplexing to two 1.544 Mbps channels. The 1.544 Mbps channels may be further multiplexed at the same or a different Hub to Voiceband or Wideband Analog (i.e., Group level) channels or may be extended to other CDLs. Optional features may be added to either the 1.544 Mbps or the Voiceband Channels.

A customer may also order high capacity facilities from an end user's CDL to a Telephone Company Hub for the purpose of originating or terminating Special Access Lines used with a Switching Interface. High capacity to voice multiplexing is required at the Hub.

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**5. SPECIAL ACCESS (Cont'd)**

**5.2 Description of Special Access (Cont'd)**

**5.2.1 Voiceband**

(A) Two-Wire Voiceband Facility

These facilities are unconditioned and are capable of transmitting voice or data signals within the frequency spectrum of approximately 300 Hz to 3000 Hz. These facilities are furnished on a two-point or multipoint basis and may be terminated two-wire or four-wire at the point of termination. They permit the simultaneous transmission of information in both directions over a circuit, but it is not possible to ensure independent information transmission in both directions. Supplemental features may be added, at applicable charges, to enhance the operational capabilities of these facilities.

(B) Four-Wire Voiceband Facility

These facilities are unconditioned and are capable of transmitting voice or data signals within the frequency spectrum of approximately 300 Hz to 3000 Hz. These facilities are furnished on a two-point or multipoint basis and may be terminated two-wire or four-wire at the point of termination. When terminated four-wire, they permit simultaneous independent transmission of information in both directions over a circuit. However, when terminated two-wire, simultaneous independent transmission cannot be supported. Supplemental features may be added, at applicable charges, to enhance the operational capabilities of these facilities.

**5.2.2 (Reserved for Future Use)**

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**5. SPECIAL ACCESS (Cont'd)**

**5.2 Description of Special Access (Cont'd)**

**5.2.3 Program Audio**

These facilities are arranged and provided for the transmission of non broadcast audio which is to be used in connection with loudspeakers, wired music, closed circuit or recordings. Audio facilities are furnished for transmission in one direction. Audio facilities may be provided on a two-point or multipoint basis.

Program audio facilities are provided on either a full-time or part-time basis. The minimum periods for full-time and part-time service are set forth in Section 3.2.4. When a part-time program audio service is provided for ten or more consecutive days it will be treated as a full-time service and rated accordingly. In no event will the charge for continuous part-time program audio exceed the amount that would have been charged in the same time period for full-time program audio facilities.

Listed below are the types of Program Audio facilities that are offered under this tariff:

(A) 200 to 3500 Hz

Facilities are generally acceptable for speech quality programming and are subject to use over limited distance due to transmission factors.

(B) 100 to 5000 Hz

Facilities are generally acceptable for music and provide good quality speech programming.

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**5. SPECIAL ACCESS (Cont'd)**

**5.2 Description of Special Access (Cont'd)**

**5.2.3 Program Audio (Cont'd)**

(C) 50 to 8000 Hz

Facilities for the provision of high fidelity music transmission.

(D) 50 to 15000 Hz

Facilities for the provision of high fidelity music transmission. Two such facilities may be conditioned, at applicable charges, for stereo operation.

**5.2.4 Video Band**

These facilities are arranged and provided for the transmission of television which is to be used other than for broadcast purposes in connection with viewing or recording. Part-time (temporary) nonbroadcast video is available and will be developed on an individual case basis. Facilities to be used in connection with broadcast video services must be ordered from the appropriate interstate tariff.

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**5. SPECIAL ACCESS (Cont'd)**

**5.2 Description of Special Access (Cont'd)**

**5.2.5 Wideband Analog**

These facilities are two point and are furnished between CDLs or between a CDL and a Telephone Company designated Hub Wire Center where multiplexing is offered. The three types of Wideband Analog facilities are:

- (A) Group band facilities with a bandwidth from 60 Khz to 108 Khz for the transmission of a 12 circuit frequency division multiplexer (FDM) group.
- (B) Supergroup band facilities with a bandwidth from 312 kHz to 552 kHz for the transmission of a 60 circuit FDM supergroup.
- (C) Mastergroup band facilities with a bandwidth from 564 kHz to 3084 kHz for the transmission of a 600 circuit FDM mastergroup.

**5.2.6 Wideband Data Service**

These analog facilities are arranged and furnished for two-point simultaneous two-way transmission of high speed data between two CDLs. These facilities are normally utilized for the following data speeds: 19.2 kbps, 50 kbps, 56 kbps and 230.4 kbps.

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**5. SPECIAL ACCESS (Cont'd)**

**5.2 Description of Special Access (Cont'd)**

**5.2.7 High Capacity Digital**

These facilities are two point and are furnished between CDLs or between a CDL and a Telephone Company designated Hub Wire Center where multiplexing is offered. High Capacity facilities may be used to provide Special Access Lines as set forth in 5.1.1(C)(2) preceding. A High Capacity to Voice multiplexing arrangement, as described in Section 5.5 following, is required at the Hub Wire Center.

- (A) DS1 facilities provide for the transmission of isochronous serial data at a rate of 1.544 Mbps.
- (B) DS1C facilities provide for the transmission of isochronous serial data at a rate of 3.152 Mbps.
- (C) (Reserved for Future Use)
- (D) DS3 facilities provide for the transmission of isochronous serial data at a rate of 44.736 Mbps. The Telephone Company will provide an electrical interface with the service unless otherwise specified by the customer.
- (E) DS3C facilities provide for the transmission of isochronous serial data at a rate of 89.472 Mbps. The Telephone Company will provide an optical interface with this service unless the service is provided via microwave, in which case an electro-magnetic interface is provided, or unless the customer requests an electrical interface.

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**5. SPECIAL ACCESS (Cont'd)**

**5.2 Description of Special Access (Cont'd)**

**5.2.8 Digital Data Service**

Facilities for Digital Data Service are furnished for the simultaneous two-way transmission of synchronous data presently utilized for the following data speeds: 2.4 kbps, 4.8 kbps, 9.6 kbps, 56 kbps. Digital Data facilities may be provided on a two point or multipoint basis.

**5.2.9 (Reserved for Future Use)**

**5.2.10 Miscellaneous Special Access Services**

A description of each service provided under Miscellaneous Special Access Services, along with the rates is set forth in 5.8 following. Other Special Access rate elements may apply in addition to those found in 5.8.

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**5. SPECIAL ACCESS (Cont'd)**

**5.3 Description of Terminating Options**

Terminating Options provide a clearly delineated interface between Telephone Company and customer facilities at the point of termination at the CDL. Terminating Options facilitate the design, isolation, and testing of the Special Access. The description of each Terminating Option defines the most effective use of the Terminating Option. Although a customer is not restricted from alternate applications, except where such application is harmful to the network, the Telephone Company cannot guarantee technical performance for other than the applications stated below. Terminating Options are nonchargeable.

**5.3.1 Narrowband**

(A) 0 to 75 Baud Type 1

Provides standard open/closed 20 or 62 Ma energized interface to customer terminal equipment and converts customer terminal equipment signals to voice frequency signaling for transmission over two-wire or four-wire voiceband network facilities suitable for voice grade to narrowband multiplexing.

(B) 0 to 75 Baud Type 2

Provides two-wire or four-wire metallic interface for customer or Telephone Company energized circuits. Telephone Company energized circuits are only available in conjunction with voice grade to narrowband multiplexing. This option does not guarantee dc current operation over special transport facilities.

(C) 0 to 150 Baud

Provides standard RS-232C interface to customer terminal equipment and converts customer terminal equipment signals to voice frequency signaling for transmission over two-wire or four-wire voiceband facilities.

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5. **SPECIAL ACCESS** (Cont'd)

5.3 **Description of Terminating Options** (Cont'd)

5.3.2 **Voice Grade**

(A) **Two-Wire Voice Grade, Non-Data, Without Signaling**

This option provides a two-wire interface to a customer and terminates an effective two-wire facility furnished for voice transmission only. Customer provided signaling must be limited to tones in the voiceband. Customer provided voiceband signaling equipment must limit transmission power to 0.0 dBm peak and -13 dBm average power over a three-second period.

(B) **Four-Wire Voice Grade, Non-Data, Without Signaling**

This option provides a four-wire interface to the customer terminal equipment and terminates an effective four-wire facility furnished for voice transmission only. Customer provided voiceband signaling must be limited to tones in the voiceband. Customer provided voiceband signaling equipment must limit transmission power to 0.0 dBm peak and -13 dBm average power over a three-second period.

(C) **Voice Grade Data Termination**

This option provides a two-wire or four-wire transmission interface to a customer's private line data modem and terminates an effective four-wire facility furnished for voiceband data transmission.

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**5. SPECIAL ACCESS (Cont'd)**

**5.3 Description of Terminating Options (Cont'd)**

**5.3.2 Voice Grade (Cont'd)**

(D) Two-Wire Voice Grade Station Connecting Facility Termination

This option provides a means to terminate an effective two-wire facility or an effective four-wire facility with a two-wire customer interface on a telephone, key system, PBX, ACD, or similar equipment. This option is normally used to terminate facilities that furnish foreign central office service, the station end of PBX off premises service, or private switched service network access lines. The option provides both the transmission and loop signaling functions normally associated with these services. The option is also used to terminate facilities arranged with automatic ringdown signaling. This option provides the loop and ringdown signaling with the facility.

(E) Four-Wire Voice Grade Station Connecting Facility Termination

A terminating option similar to (D) preceding used to terminate effective four-wire foreign exchange service. The option provides a four-wire transmission interface to the customer terminal equipment and the loop signaling function normally associated with these services. This option provides the loop and ringdown signaling with the facility.

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5. **SPECIAL ACCESS** (Cont'd)

5.3 **Description of Terminating Options** (Cont'd)

5.3.2 **Voice Grade** (Cont'd)

(F) **Two-Wire Station Connecting Facility Termination for the Open End of an Off Premises PBX Extension**

Terminating options are available depending on the signaling range of the PBX (or similar system) as defined in Part 68 of the FCC Rules and Regulations. Type 1 is an option requiring range extension equipment at the CDL. Type 2 is an option with no range extension equipment at the CDL. If needed, the loop signaling range equipment for Type 1 must be specifically specified, see Section 5.4.4 following for available arrangements.

(G) **Dial Repeating Tie Trunk Termination**

Two network terminating options are provided for terminating effective four-wire transmission facilities used to furnish dial repeating tie trunk services. These options are described in terms of the interface they provide to a PBX (or similar system).

- (1) A Type I tie line termination provides the customer with a two-wire transmission interface and includes either two-wire or four-wire E&M type signaling. Transmission and signaling interface options are available described in Part 68 of the FCC Rules and Regulations. This option provides the E&M type signaling with the facility.
- (2) A Type III tie line termination provides the customer with a four-wire transmission interface and includes either two-wire or four-wire E&M type signaling. Transmission and signaling options available are described in Part 68 of the FCC Rules and Regulations. This option provides the E&M type signaling with the facility.

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**5. SPECIAL ACCESS (Cont'd)**

**5.3 Description of Terminating Options (Cont'd)**

**5.3.3 Program Audio**

(A) 200 to 3500 Hz

Provides standard program audio interface levels and impedance matching to two-wire network facilities.

(B) 100 to 5000 Hz, 50 to 8000 Hz, and 50 to 15000 Hz

Provides standard program audio interface levels, circuit equalization and impedance matching to two-wire network facilities.

**5.3.4 Videoband**

Provides a Videoband Special Access Line interface for use in providing the one way transmission of video signals.

Standard Videoband service is provided via one signal (combined video and audio). This signal is in the 30 hz to 6.6 MHz frequency range. It includes a one-way duplexed transmission of standard 525 lines/60 fields monochrome or NTSC color video signal, and one or two associated 15 KHz audio signal.

As an option, the customer may select to receive Videoband service via two or three signals (one video and one or two audio). Under this option, the signal received will be in the 30 Hz to 4.5 MHz frequency range and the one or two audio signals will be in the 50 Hz to 15000 Hz frequency range.

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**5. SPECIAL ACCESS (Cont'd)**

**5.3 Description of Terminating Options (Cont'd)**

**5.3.5 Wideband Data Service**

- (A) Provides a Wideband Data Service Special Access interface for use in providing two-way transmission of sequential synchronous or nonsynchronous data at rates of 19.2, 50 or 230.4 Kbps; or sequential synchronous bipolar data signals at a rate of 56 Kbps over four-wire facilities.
- (B) (Reserved for Future Use)

**5.3.6 High Capacity Digital**

(A) High Capacity Digital DS1

Provides a High Capacity Digital DS1 Special Access interface for use in providing simultaneous two-way transmission of sequential synchronous bipolar data signals at the rate of 1.544 Mbps over four-wire facilities.

(B) High Capacity Digital DS1C

Provides a High Capacity Digital DS1C Special Access interface for use in providing simultaneous two-way transmission of sequential synchronous bipolar data signals at the rate of 3.152 Mbps over four-wire facilities.

(C) (Reserved for Future Use)

(D) High Capacity Digital DS3

Provides a High Capacity Digital DS3C Special Access interface for use in providing simultaneous two-way transmission of sequential synchronous bipolar data signals at the rate of 44.736 Mbps over four-wire facilities.

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5. **SPECIAL ACCESS** (Cont'd)

5.3 **Description of Terminating Options** (Cont'd)

5.3.6 **High Capacity Digital** (Cont'd)

(E) **High Capacity Digital DS3C**

Provides a High Capacity Digital DS3C Special Access interface for use in providing simultaneous two-way transmission of sequential synchronous bipolar data signals at the rate of 89.472 Mbps over four-wire facilities.

(F) **Cross Connect**

A cross-connect charge will be charged on a monthly basis to recover the costs of the facilities and equipment required for the cable connection from the Telephone Company distribution frame to the central office electronic equipment owned or dedicated to the interconnector. Rates will be standard for each Telephone Company central office where an interconnector has established a multiplexing node.

Rate can be found in Section 5.7.10(C)

A Cross Connect charge will not apply when the cross connect is used in conjunction with an unbundled network element (UNE) obtained pursuant to an interconnection agreement with the Company.

(N)  
|  
(N)



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**5. SPECIAL ACCESS (Cont'd)**

**5.3 Description of Terminating Options (Cont'd)**

**5.3.7 Digital Data Service**

Provides DDS Special Access interface for use in providing simultaneous two-way transmission of sequential bipolar data signals at rates of 2.4 Kbps, 4.8 Kbps, 9.6 Kbps, and 56 Kbps over four-wire facilities.

**5.4 Description of Supplemental Features**

Supplemental Features are items which can be added to a Special Access to provide enhanced capabilities or improve its utility. References to specific uses or Special Access types indicate the most effective use for each Supplemental Feature. Customer use for other purposes or with other Special Access types is limited only to the extent that such use must not harm the network. Further, the Telephone Company does not guarantee functional operation of Supplemental Features for these alternate applications.

Listed below are the Supplemental Features that are offered under this tariff.

**5.4.1 Bridging**

Bridging is the function of connecting three or more CDLs in a multipoint arrangement. Listed below are those bridging services offered under this tariff.

**(A) Multi-Point Data Bridging**

This feature provides the capability to derive a multipoint data circuit from a single facility and is normally provided on Voiceband facilities provided for transmission of data signals. This function is provided on a per port basis. Polled multipoint data circuits are a typical application of this feature.

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**5. SPECIAL ACCESS (Cont'd)**

**5.4 Description of Supplemental Features (Cont'd)**

**5.4.1 Bridging (Cont'd)**

(B) Voice Conference Bridging

Bridging arrangement to connect multiple Voiceband facilities in order that a voice frequency input signal from any location will be reproduced at the output of all other circuit locations. This function is provided on a per port basis.

(C) Alarm Distribution Bridging

Provides polling type bridging capabilities, band splitting filters and conversion of four-wire common terminations up to a capacity of 40 two-wire terminations. This function is offered as two tariff elements. The first element provides all shelving and common equipment for a capacity of 40 two-wire terminations. The second element provides a two-wire port. One common equipment rate element will apply to accommodate up to 40 two-wire terminations. One two-wire port charge will apply to each two-wire Special Access Line terminated in the bridge.

(D) Program Audio Bridging

An arrangement to provide multiple channel outputs from a single Program Audio or Voiceband facility. This arrangement is provided and rated on a per port basis.

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**5. SPECIAL ACCESS (Cont'd)**

**5.4 Description of Supplemental Features (Cont'd)**

**5.4.1 Bridging (Cont'd)**

(E) Dataphone Select-A-Station Bridging

Provides for the connection of a master station location to a number of remote stations. The capacity of this bridging arrangement will vary from a minimum of 21 stations to a maximum of 84 stations dependent upon the mixture of four-wire and two-wire ports equipped. This arrangement is provided per AT&T Technical Reference Publication 41014. Charges consist of a rate for either common equipment-addressable or common equipment-sequential, plus a rate for each four-wire port connected or for each two-wire port connected.

(F) DDS Bridging

Provides for a multi-junction unit (MJU) arrangement to bridge 2.4 kbps, 4.8 kbps, 9.6 kbps, or 56 kbps DDS facilities. Different speeds cannot be mixed on the same bridge. This function is provided on a per port basis.

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**5. SPECIAL ACCESS (Cont'd)**

**5.4 Description of Supplemental Features (Cont'd)**

**5.4.2 Conditioning Arrangements - Data**

Data conditioning, when utilized in conjunction with effective four-wire Voiceband transmission facilities, improves the characteristics of these facilities. These improved characteristics are not represented to apply to the entire end to end facility of the customer, but only to that portion of the facility provided by the Telephone Company.

There are two types of data conditioning: Type C and Type DA. Type C conditioning controls attenuation distortion and envelope delay distortion. Type DA controls the signal to C-notched noise ratio and intermodulation distortion. Type C and Type DA conditioning may be combined on the same circuit.

Data conditioning is charged for on a per Special Access line basis. The parameters listed for each type of data conditioning apply from two or more CDLs located within the Telephone Company serving area. Conditioning parameters apply to each end of a two-point circuit. For multipoint circuits, the conditioning parameters apply from any CDL to either the point of interface at another CDL or the first Telephone Company bridging point depending on the circuit configuration. These parameters are not applicable to High Capacity or Wideband Analog points of interface, because there is no voice frequency test access point. In these instances the data conditioning parameters apply to the last telephone company voice frequency test access point before the High Capacity or Wideband Analog point of interface.

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**5. SPECIAL ACCESS (Cont'd)**

**5.4 Description of Supplemental Features (Cont'd)**

**5.4.2 Conditioning Arrangements - Data (Cont'd)**

(A) Type C

Type C conditioning of Voiceband facilities provides a facility with the following transmission parameters enhanced to meet the values specified for Type C conditioning in addition to the standard parameters for Voiceband circuits.

- (1) Attenuation distortion with reference to 1004 Hz.
- (2) Envelope delay distortion.

(B) Type DA

Type DA conditioning of Voiceband facilities provides a facility with the following transmission parameter in addition to the standard parameters for voiceband circuits.

- (1) Signal to C-notched noise ratio.
- (2) Nonlinear signal to second order distortion.
- (3) Nonlinear signal to third order distortion.

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**5. SPECIAL ACCESS (Cont'd)**

**5.4 Description of Supplemental Features (Cont'd)**

**5.4.3 Conditioning - Program Audio**

(A) Stereo Conditioning

Provides the option of two radio program facilities which are identical in all transmission characteristics. Two Program Audio facilities are required to provide this Supplemental Feature. This feature is normally used only with Program Audio 50 to 15000 Hz facilities. Stereo Conditioning is charged on a per occurrence basis.

(B) Zero Loss

Conditioning of Program Audio facilities to provide zero loss at 1000 Hz test frequency. Zero loss is charged on a per Special Access Line basis.

**5.4.4 Signaling Arrangements**

Signaling arrangements, when furnished with Voiceband transmission facilities, enable the facilities to accommodate standard telecommunications signaling protocols. Signaling arrangements provide for the conversion of one signaling method to another signaling method and/or extension of a signaling method at customer and Telephone Company interfaces and enables the transmission facilities to accommodate signaling transmission. Signaling arrangements are available with Voiceband transmission facilities to enable transmission of requested signaling formats. The third and fourth protocol characters of the Network Channel Interface (NCI) and Secondary Network Channel Interface (SEC NCI) codes as indicated on the customer's order, reflect signaling activity. Typical protocol characters contained in the NCI or SEC NCI codes that designate signaling arrangements are: AB, AC, DS, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, NO, RV and SF.

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**5. SPECIAL ACCESS (Cont'd)**

**5.4 Description of Supplemental Features (Cont'd)**

**5.4.4 Signaling Arrangements (Cont'd)**

The customer identified NCI and SEC NCI codes will be considered the customer's request for signaling. The Telephone Company will endeavor to provide the specific signaling protocols requested by the customer. In those cases where facilities and equipment are not available to meet the customer's specific requests, the Telephone Company will provide the customer acceptable alternate protocols. To properly provision SF signaling, when associated signaling code, is DS (PCM), additional information of SF requirements (loop signaling type DX/E&M or ringdown) must accompany the customer's order.

Signaling arrangement charges apply whenever interfaces at the customer premises or at the customer's Telephone Company serving wire center require a signaling arrangement other than those provided with the Terminating Options in 5.3.2 preceding. Signaling Arrangements will be charged on a per SAL basis. Specifically, a signaling charge applies if the signaling protocol characters in the NCI and the SEC NCI fields are different and include on the following codes: RV, EX, SF, DX, DY, DS, AB

For the above conditions, one additional signaling charge applies for each additional leg of multipoint circuit. When a Multiplexing Arrangement is ordered that converts a single higher capacity or bandwidth circuit into several lower Voiceband circuits, the Voiceband Signaling Arrangements are provided as part of the Multiplexing Arrangement and no additional Signaling Arrangement charges will apply.

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**5. SPECIAL ACCESS (Cont'd)**

**5.4 Description of Supplemental Features (Cont'd)**

**5.4.4 Signaling Arrangements (Cont'd)**

A signaling charge applies in addition to any other applicable signaling charge when loop range extension equipment is required. The Telephone Company will obtain customer approval for signaling range extension equipment.

Listed below are the Signaling Arrangements offered under this tariff:

- (A) Loop Signaling Range Extension - An arrangement to extend the metallic resistance limitations of loop type signaling.
- (B) Conversion of Loop or E&M Signaling to SF - An arrangement to convert loop or E&M signaling to the single frequency signaling format.
- (C) E&M to DX Signaling Conversion - Conversion of E&M signaling to the DX signaling format.
- (D) E&M to Loop Signaling Conversion - Conversion of E&M signaling format to the loop type signaling.
- (E) Loop or E&M to PCM Signaling - Conversion of loop or E&M signaling to the digital (PCM) signaling format.
- (F) Automatic Ringdown Signaling (ARD) - A signaling arrangement on a two-point Special Access which converts loop seizure at one end of the facility into ringing signal at the opposite end.

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**5. SPECIAL ACCESS (Cont'd)**

**5.4 Description of Supplemental Features (Cont'd)**

**5.4.5 Echo Control**

(A) Echo Suppression

An arrangement provided at the customer's request to attenuate reflected speech energy on a four-wire facility. This conditioning is generally required on circuits with long propagation delay. Echo suppression is charged on a per Special Access circuit basis. Echo suppression is an obsolete service offering and is applicable only to those circuits equipped with echo suppression prior to January 1, 1987. Any service rearrangements or order activity on the circuits equipped with echo suppression may require a change to echo canceller as described in 5.4.5(B) following.

(B) Echo Canceller

An arrangement provided at the customer's request to cancel reflected speech energy on a four-wire facility. This conditioning is generally required on circuits with long propagation delay. Echo canceller is charged on a per Special Access circuit basis.

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**5. SPECIAL ACCESS (Cont'd)**

**5.4 Description of Supplemental Features (Cont'd)**

**5.4.6 Improved Return Loss**

Improved Return Loss provides for increased echo return and singing return parameters of an effective two-wire channel. This optional feature is available with certain Voiceband services at a two-wire point of termination when the transmission interface is four-wire at one CDL and two-wire at the other CDL. Placement of Telephone Company Equipment may be required at the customer's premises with the two-wire point of termination.

Improved Return Loss rates and charges will apply on a per Special Access Line basis at the rates specified in 5.7.5 following.

**5.4.7 Voiceband Facility Switching Arrangement**

An arrangement to provide switching between two Voiceband Special Access Services. This arrangement may require a Voiceband control circuit to control the switching arrangement at an additional charge.

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**5. SPECIAL ACCESS (Cont'd)**

**5.4 Description of Supplemental Features (Cont'd)**

**5.4.8 Automatic Protection Switch**

Consists of the special switching equipment placed at both ends of a duplicate DS1 facility (i.e., DS1, High Capacity Circuit) for automatic switching to the duplicate (standby) facility in the event the active facility is inoperative.

Duplicate facilities may terminate at a serving wire center, a CDL or both. The option provided under this tariff only includes the APS(s) located at a serving wire center(s). When the duplicate facility terminates at a CDL, the customer will be responsible for providing the associated APS and ensuring it is compatible with the Telephone Company provided switch if appropriate.

The duplicate facilities are not a part of this supplemental feature.

**5.4.9 Improved Termination Option**

Improved Termination provides for a fixed 600 ohm impedance, an increased range of transmission levels, and simplex reversal (when applicable) on an effective four-wire channel. This optional feature is available with most Voiceband services with a four-wire point of termination. Telephone Company equipment is required at the customer's premises where this option is ordered.

The Improved Termination option will be ordered and rates and charges, as set forth in 5.7.5 following, will apply on a per SAL basis.

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**5. SPECIAL ACCESS (Cont'd)**

**5.4 Description of Supplemental Features (Cont'd)**

**5.4.10 Improved Equal Level Echo Path Loss Option -  
ELEPL-2**

This option provides improved echo control parameters for an effective two-wire channel at a four-wire point of termination. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire point of termination.

The term "Equal Level Echo Path Loss" (ELEPL) represents the measure of Echo Path Loss (EPL) at a four-wire interface which is corrected by the difference between the send and receive Transmission Level Point (TLP), i.e.,  $ELEPL = EPL - TLP(\text{send}) + TLP(\text{receive})$ .

Improved ELEPL rates and charges will apply on a per SAL basis at the rates set forth in 5.7.5 following.

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**5. SPECIAL ACCESS (Cont'd)**

**5.5 Description of Multiplexing Arrangements**

Multiplexing Arrangements provide the function to convert a single higher capacity or bandwidth circuit for bulk transport to several lower capacity or bandwidth circuits. Cascading multiplexing occurs when a high capacity analog or digital channel is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a DS1C may be de-multiplexed to two DS1 facilities and then the DS1 facilities may be further de-multiplexed to 24 Voiceband channels.

When cascading multiplexing is performed in the same or different Hub Wire Center, a charge for the additional multiplexing unit will also apply. When cascading multiplexing is performed at a different Hub Wire Center, Special Transport will also apply between the involved Hub Wire Centers.

Listed below are the multiplexing arrangements offered under this tariff.

(A) Voice to Narrowband

An arrangement that multiplexes up to sixteen 0 to 75 baud narrowband circuits to a single voice grade circuit, or a single voice grade circuit to sixteen 0 to 75 baud narrowband circuits.

(B) Group to Voice

An arrangement that multiplexes twelve voice grade circuits to a single wideband analog group band circuit, or multiplexes a single wideband analog group band circuit to twelve voice grade circuits.

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**5. SPECIAL ACCESS (Cont'd)**

**5.5 Description of Multiplexing Arrangements (Cont'd)**

(C) Supergroup to Group

An arrangement that multiplexes five wideband analog group band circuits to a single wideband analog supergroup band circuit, or multiplexes a single wideband analog supergroup band circuit to five wideband analog group band circuits.

(D) Mastergroup to Supergroup

An arrangement that multiplexes ten wideband analog supergroup band circuits to a single wideband analog mastergroup band circuit, or multiplexes a single wideband analog mastergroup band circuit to ten wideband analog supergroup band circuits.

(E) DS1 to Voice

An arrangement that multiplexes twenty-four voice grade circuits to a single DS1 digital circuit at a rate of 1.544 Mbps, or multiplexes a single DS1 digital circuit at a rate of 1.544 Mbps to twenty-four voice grade circuits.

(F) DS1C to Voice

An arrangement that multiplexes forty-eight voice grade circuits to a single DS1C digital circuit at a rate of 3.152 Mbps, or multiplexes a single DS1C digital circuit at a rate of 3.152 Mbps to forty-eight voice grade circuits.

(G) DS1C to DS1

An arrangement that multiplexes two DS1 digital circuits to a single DS1C digital circuit at a rate of 3.152 Mbps, or multiplexes a single DS1C digital circuit at a rate of 3.152 Mbps to two DS1 digital circuits.

(H) (Reserved for Future Use)

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**5. SPECIAL ACCESS (Cont'd)**

**5.5 Description of Multiplexing Arrangements (Cont'd)**

(I) DS3 to DS1

An arrangement that multiplexes twenty-eight DS1 digital circuits to a single DS3 digital circuit at a rate of 44.736 Mbps, or multiplexes a single DS3 digital circuit at a rate of 44.736 Mbps to twenty-eight DS1 digital circuits.

(J) DS3C to DS1

An arrangement that multiplexes fifty-six DS1 digital circuits to a single DS3C digital circuit at a rate of 89.472 Mbps, or multiplexes a single DS3C digital circuit at a rate of 89.472 Mbps to fifty-six DS1 digital circuits.

(K) Group to DS1

An arrangement that multiplexes two wideband analog groupband circuits to a single DS1 digital circuit at a rate of 1.544 Mbps, or multiplexes a single DS1 digital circuit at a rate of 1.544 Mbps to two wideband analog groupband circuits.

(L) Digital Data Carrier Multiplexer

An arrangement that multiplexes twenty-three 64 kbps digital circuits for connection to either subrate data multiplexers as described in 5.5(M) following or 56 kbps office channel units as described in 5.5(N) following, to a single DS1 1.544 Mbps digital circuit. This arrangement consists of a charge for the basic multiplexer and a charge for each 64 kbps digital circuit equipped and connected.

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**5. SPECIAL ACCESS (Cont'd)**

**5.5 Description of Multiplexing Arrangements (Cont'd)**

(M) Digital Data Subrate Multiplexer

Used with cascading multiplexing, the Digital Data Subrate Multiplexer is an arrangement that multiplexes the following quantities of subrate digital data circuits into a single 64 kbps digital circuit: 1) twenty 2.4 kbps, 2) ten 4.8 kbps or 3) five 9.6 kbps. In turn, the 64 Kbps digital circuits then multiplexed to a single DS1 digital circuit using the Digital Data Carrier Multiplexer described in 5.5(L) preceding.

(N) Digital Data Office Channel Unit

An arrangement that provides a metallic facility interface for the subrate digital data multiplexer for digital rates of 2.4, 4.8, and 9.6 kbps or for the digital data carrier multiplexer at a digital rate of 56 kbps. One Digital Data Office Channel Unit applies per Special Access Line so terminated.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations**

This section contains specific regulations governing the rates and charges that apply for Special Access Service.

**5.6.1 Types of Rates and Charges**

There are three types of rates and charges. These are monthly rates, daily rates and nonrecurring charges. The rates and charges are described as follows:

(A) Monthly Rates

Monthly rates are recurring charges that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

(B) Daily Rates

Daily rates are recurring charges that apply to each 24 hour period or fraction thereof that a part-time Program Audio Special Access Service is provided. This 24 hour period is not limited to a calendar day. When part-time Program Audio service is provided for ten or more consecutive days, it will be treated as a full-time service and monthly rates will apply. In no event will the charges for continuous part-time Program Audio service exceed the amount that would be charged in the same time period for full-time service.

(C) (Reserved for Future Use)

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.1 Types of Rates and Charges (Cont'd)**

(D) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity, (i.e., installation of service or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are those listed below.

(1) Special Access Ordering Charges

Special Access Ordering Charges are associated with the work performed by the Telephone Company in connection with the receiving, recording and processing of customer service requests. There are two types of service ordering charges.

(a) Initial Ordering Charge - Special Access

This charge applies on a per Access Service Request (ASR) basis including those requests to add additional terminations to an existing service.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.1 Types of Rates and Charges (Cont'd)**

(D) Nonrecurring Charges (Cont'd)

(1) Special Access Ordering Charges (Cont'd)

(b) Subsequent Ordering Charge - Special Access

This charge applies on a per ASR basis for modifications to an existing service. This would include activities such as:

- Additions of supplemental features and multiplexing arrangements.
- Changes in the type of transport rate option from Switched Transport to Special Transport for FGA and FGB Switched Access Service as described in Section 4.1.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.1 Types of Rates and Charges (Cont'd)**

(D) Nonrecurring Charges (Cont'd)

(2) Service Installation Charge

The Service Installation Charge is associated with the work performed by the Telephone Company in connection with the physical installation activities involving central office and/or outside plant facilities. This charge applies on a per SAL basis for the installation of service, and for additional terminations to existing service.

This charge does not apply to installations involving DS1 SAL's. The installation charge for these services are set forth in 5.6.1(D)(5) following. In addition, this charge will not apply to part-time Program Audio SALs which are left in place and reused.

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5. **SPECIAL ACCESS** (Cont'd)

5.6 **Rate Regulations** (Cont'd)

5.6.1 **Types of Rates and Charges** (Cont'd)

(D) **Nonrecurring Charges** (Cont'd)

(3) **Design Change Charge**

The customer may request a design change to the service ordered. A design change is any change to a pending ASR for Special Access Service which requires engineering review. Design changes include such things as the addition or deletion of supplemental features or changes in the terminating options. Design changes do not include a change of IC CDL, end user premises or Special Access service type (e.g., 2-wire to 4-wire Voiceband or Voiceband to Program Audio, etc.). Changes of this nature will require the issuance of a new ASR and the cancellation of the original ASR. The cancellation charges apply as set forth in Section 3.2.6.

The Telephone Company will review the requested change, notify the customer whether the change can be accommodated and specify if a new service date is required. If the customer authorizes the Telephone Company to proceed with the design change, a Design Change Charge will apply.

The Design Change Charge, as set forth in Section 12.7.1 will apply on a per ASR per occurrence basis, for each ASR requiring a design change.

If a change of service date is required, the Service Date Change Charge as set forth in Section 3 will also apply.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.1 Types of Rates and Charges (Cont'd)**

(D) Nonrecurring Charges (Cont'd)

(4) Installation of Supplemental Features and Multiplexing Arrangements

Nonrecurring charges apply for the installation of supplemental features and multiplexing arrangements available with Special Access service. The charge applies whether the feature or multiplexing arrangement is installed coincident with the initial installation of service or at any time subsequent to the installation of service. These charges are in addition to the appropriate Special Access Ordering Charge as set forth in 5.6.1(D)(1) preceding.

(5) Installation of DS1 Special Access Lines

There are two levels of charges for the installation of DS1 SAL as set forth in 5.7.10(A). The "First System" charge is assessed for the first DS1 Special Access Line ordered by a customer. When the same customer requests additional DS1 Special Access Lines on the same ASR, to be installed at the same time and at the same location, the lesser charge under "Additional System" will apply. In addition to these charges, the appropriate Special Access Ordering Charge set forth in 5.6.1(D)(1) preceding will apply.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.1 Types of Rates and Charges (Cont'd)**

(D) Nonrecurring Charges (Cont'd)

(6) Installation of Temporary Videoband Service

Temporary Videoband Service is available with rates developed on an Individual Case Basis as set forth in 5.7.14 following.

(7) Service Rearrangements

Service rearrangements are changes to existing (installed) services which may be administrative only in nature, as set forth following, or involve an actual physical change to the service. Changes to pending orders are set forth in Section 3.2.2.

Changes in the type of service will be treated as a discontinuance of the service and an installation of a new service.

Changes in the physical location of the point of termination are treated as moves which are described and charged for as set forth in 5.6.4 following.

Changes in ownership or transfer of responsibility from one customer to another requires the discontinuance of service and the start of a new service. The Initial Ordering Charge - Special Access and any appropriate Minimum Period Charges will apply per service, per change.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.1 Types of Rates and Charges (Cont'd)**

(D) Nonrecurring Charges (Cont'd)

(7) Service Rearrangements (Cont'd)

For a change in jurisdiction involving no physical changes to the service provided, the Initial Ordering Charge - Special Access will apply per service, per change.

Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Special Access Service to the same entity (i.e., customer remains responsible for all outstanding indebtedness for the Access Service).

Administrative changes are as follows:

- Change name, same customer (i.e., the customer of record does not change but rather the customer of record changes its name),
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of customer circuit identification,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number, and
- Change of agency authorization.
- Change in jurisdiction involving no physical changes to the service.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.1 Types of Rates and Charges (Cont'd)**

(D) Nonrecurring Charges (Cont'd)

(7) Service Rearrangements (Cont'd)

All other service rearrangements will be charged for as follows:

- If the change involves the addition of another termination to an existing multipoint service, the Initial Ordering Charge - Special Access will apply plus the Service Installation charge for each location added.
- If the change involves the addition of supplemental feature or multiplexing arrangement, the Subsequent Ordering Charge - Special Access will apply plus the installation charge associated with the supplemental feature or arrangement.
- If the change involves changing the type network interface only, with no change in facility, the Subsequent Ordering Charge - Special Access will apply plus an amount equal to one half of the Service Installation charge for each location changed.

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5. **SPECIAL ACCESS** (Cont'd)

5.6 **Rate Regulations** (Cont'd)

5.6.1 **Types of Rates and Charges** (Cont'd)

(D) **Nonrecurring Charges** (Cont'd)

(7) **Service Rearrangements** (Cont'd)

- If the change involves changing a two-wire service to a four-wire service or vice versa, the Subsequent Ordering Charge - Special Access will apply plus the Service Installation charge for each location changed.
- If the change involves the retermination of an existing circuit within the wire center only, in association with the installation of high capacity facilities and/or multiplexing arrangements, the Subsequent Ordering Charge - Special Access will apply plus an amount equal to one half the Service Installation charge.
- If the change involves the retermination of an existing circuit within a wire center and a change in the facilities involved (i.e., reroute), in association with the installation of high capacity facilities and/or multiplexing arrangements, the Subsequent Ordering Charge - Special Access will apply plus the Service Installation charge for the location involved.
- In cases where multiple service rearrangements or an additional termination or a move and a service rearrangement are requested on a single ASR, the total charge will never exceed the full nonrecurring charge for the basic service.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.1 Types of Rates and Charges (Cont'd)**

(E) (Reserved for Future Use)

(F) (Reserved for Future Use)

(G) (Reserved for Future Use)

**5.6.2 Minimum Periods**

Special Access is provided for a specified minimum period. Minimum periods and minimum period charges are described in detail in Section 3.

**5.6.3 Mileage Measurement**

The mileage to be used to determine the monthly rate for the Special Transport is calculated on the airline distance between the serving wire centers involved (i.e., CDL serving wire center or Hub Wire Center or WATS Serving Office). Where the calculated miles include a fraction, the value is always rounded up to the next full mile. Where the calculated value is zero, no Special Transport mileage is charged.

When there is a Hub Wire Center involved, the Special Transport mileage will be measured from the Hub Wire Center to the serving wire centers of each of the CDLs connected to the hubbed facilities. Mileage is computed for each section and rates are applied accordingly. However, when a Special Access facility is routed through a Hub Wire Center for purposes other than customer specified such as bridging or multiplexing (e.g., the Telephone Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the wire centers serving the CDLs.

The rates for the mileage are applied per airline mile. The serving wire center V&H coordinates and the method of calculation is specified in the NECA tariff FCC No. 4.

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5. **SPECIAL ACCESS** (Cont'd)

5.6 **Rate Regulations** (Cont'd)

5.6.4 **Moves**

A move involves a change in the physical location of the point of termination of Special Access. The charge for the move depends on whether the move is within the same CDL or to a different CDL.

(A) **Same CDL** (GSEC) NASALMSB

When the move is to a new point within the same CDL, the charge for the move will be the Subsequent Ordering Charge - Special Access plus an amount equal to one half the Service Installation charge for the service termination affected. There will be no change in the minimum period requirements.

(B) **Different CDL**

When the move is to a different CDL, it will be treated as a disconnect and an installation of service. The Initial Ordering Charge - Special Access will apply plus the Service Installation charge for the service termination(s) affected. A new minimum period will also be established for the installed Special Access Service. The customer will remain responsible for all minimum period charges associated with the disconnected Special Access Service.

A move normally involves an interruption of Special Access for the period required to complete the move. No credit allowance will be granted for that period.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.4 Moves (Cont'd)**

A customer may request that Special Access not be interrupted during a move. To comply with that request, it may be necessary to install a duplicate Special Access, and subsequently discontinue the existing Special Access. Charges, monthly and nonrecurring will apply for the duplicate Special Access. A new minimum period will be established for the duplicate portion of the Special Access, depending on which end of the Special Access is moved. The customer will also remain responsible for all minimum period charges associated with the corresponding portion of the disconnected Special Access.

**5.6.5 Rates and Charges on an Individual Case Basis**

(A) The monthly rates and nonrecurring charges for the following service offerings will be developed on an Individual Case Basis:

- Part-time Videoband Facilities
- Full-time Videoband Facilities
- Wideband Analog - Group Band Facilities
- Wideband Analog - Supergroup Band Facilities
- Wideband Analog - Mastergroup Band Facilities
- Wideband Data Facilities
- High Capacity Digital DS1C (3.152 Mbps) Special Access Lines
- High Capacity Digital DS1C (3.152 Mbps) Special Transport
- High Capacity Digital DS3 (44.736 Mbps) Facilities
- High Capacity Digital DS3C (89.472 Mbps) Facilities

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.5 Rates and Charges on an Individual Case Basis (Cont'd)**

- (B) The monthly rates and nonrecurring charges for the following Multiplexing Arrangements will be developed on an Individual Case Basis:

Group to Voice  
Supergroup to Group  
Mastergroup to Supergroup  
DS1C to Voice  
DS1C to DS1  
DS3 to DS1  
DS3C to DS1  
Group to DS1

- (C) The monthly rates and nonrecurring charges for the following Supplemental Features will be developed on an Individual Case Basis:

Dataphone Select-a-Station Bridging Common  
Equipment - Addressable

Dataphone Select-a-Station Bridging - Each Four-  
Wire Port

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.6 Hub Wire Centers**

A Hub Wire Center is a Telephone Company designated serving wire center at which bridging or multiplexing arrangements are provided. Bridging is used to connect three or more CDLs in a multipoint arrangement. The multiplexing arrangements channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth.

Although Hub Wire Centers are defined as serving wire centers at which bridging or multiplexing arrangements are performed, they are not limited to providing these functions and may provide any other types of Special Access services offered in this Tariff. For example, the Telephone Company will designate certain Hub Wire Centers for Program Audio service offerings.

The Telephone Company will designate the Hub Wire Center locations. Different locations may be designated as Hub Wire Centers for different functions, such as bridging or multiplexing arrangements, for different facility capacities (e.g., multiplexing from digital to digital may occur at one wire center while multiplexing from digital to analog may occur at a different wire center). The location of Hub Wire Centers and the types of hubbing functions offered at that location are identified in the NECA Tariff FCC No. 4.

Some of the types of multiplexing provided include the following:

- from higher to lower bit rate,
- from higher to lower bandwidth,
- from digital to voice grade service.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.6 Hub Wire Centers (Cont'd)**

The transmission performance for the end to end Special Access provided from CDLs will be that of the lower capacity or bit rate. For example, when a DS1 Special Access is multiplexed to voice frequency circuits, the transmission performance will be Voiceband, not High Capacity.

The Telephone Company will commence billing the monthly rate for the Special Access Line and Special Transport for the High Capacity facility to the Hub Wire Center as of the service date, even though individual services utilizing those facilities may not be installed until a later date. If the customer has designated the type of multiplexing to be provided with the High Capacity facility, the nonrecurring charge for the Multiplexing Arrangement will be billed to the customer at that same time, and the billing for the monthly rate will begin.

Individual Special Access rates (by Special Access type) will apply for the Special Access Line and additional Special Transport facilities (if required) for each channelized Special Access. These will be billed to the customer as each individual Special Access is installed.

A customer may order full-time and/or part-time Program Audio Services between two CDLs, or between a CDL and a Hub Wire Center, and will be billed accordingly at the rates set forth in Sections 5.7.6, 5.7.7, 5.7.8, and 5.7.9 following.

At the request of the customer, the full-time and/or part-time services provided to a Hub Wire Center may be connected together in the following configurations: full-time to full-time, full-time to part-time, or part-time to part-time.

The rates that apply for Program Audio Services between each CDL and the Hub Wire Center are Special Transport, if applicable, and Special Access Line. In addition, rates for Supplemental Features and Inside Wiring may be applicable.

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5. **SPECIAL ACCESS** (Cont'd)

5.6 **Rate Regulations** (Cont'd)

5.6.7 **Shared Use Analog and Digital High Capacity Services**

- (A) Shared use refers to the service arrangement where the customer orders a digital high capacity facility between a CDL and the Hub Wire Center where the Telephone Company performs multiplexing functions and the same customer then orders the derived channels as Special and Switched Access services.

The High Capacity facility including the associated multiplexing arrangements will be ordered, provided and rated as Special Access service. The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charges associated with the High Capacity facility. When the same customer orders derived channels as Switched or Special, the nonrecurring charges applicable to those individual services will be assessed. There will be no additional nonrecurring charges assessed for the High Capacity facility at the time the derived channels are ordered.

The customer must place an order for each individual Switched or Special Access Service utilizing the Shared Use Facilities and specify the channel assignment for each such service.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.7 Shared Use Analog and Digital High Capacity Services  
(Cont'd)**

(A) (Cont'd)

Rating as Special Access will continue until such time as the customer chooses to use a portion of the available capacity for providing Switched Access Service. As each individual channel is activated for Switched Access service, the Special Access rates will be reduced accordingly (e.g., 1/24th for a DS1 service, 1/24th for a DS1 to Voice multiplexing arrangement, etc.). Switched Access Service rates and charges, as set forth in Section 4 preceding, will apply for each channel of the shared use facility that is used to provide a Switched Access Service. The Switched Access Minimum Capacity Requirements as set forth in Section 3.5 will not apply.

(B) When Special Access Service is provided utilizing a channel of the shared use facility to a hub, High Capacity rates and charges will apply for the facility to the hub, as set forth preceding, and individual service rates and charges will apply from the hub to the CDL. The rates and charges that will apply to the portion from the hub to the CDL will be dependent on the specific type of Special Access Service that is provided (e.g., Voiceband). The applicable rates and charges will include a Special Access Line and Special Transport, if applicable. Rates and charges for optional features associated with the service will also apply.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.8 Temporary Videoband Service**

The rates and charges for use of facilities for Temporary Videoband Service are assessed on a per hop basis. A hop is defined as the transporting of a one-way video and associated audio signal(s) in a direct path from a transmitter location to the adjacent receiver location. The distance of a single hop is primarily a factor of the local geographics of the video path, therefore, more than one hop may be required between CDLs. The following diagram depicts a single hop.

There are two separate rate categories for a hop which are based on the provisioning of service:

- Video broadcasts which use permanent facilities, and
- Video broadcasts which use nonpermanent facilities.

**(A) Use of Permanent facilities for Temporary Video Broadcast**

Permanent facilities are those in-place facilities that are not removed at the end of a broadcast.

The rates and charges for services provided over permanent facilities are developed on an Individual Case Basis.

The Telephone Company does not contemplate constructing permanent facilities to provision future requests for temporary videoband service. However, in the event that a customer requests this type of provisioning, the Telephone Company will provide such facilities under Section 14, Special Construction. Accordingly, such facilities are deemed to be provided for the sole use of that customer and no other future use of those facilities is planned or expected by the Telephone Company.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.8 Temporary Videoband Service (Cont'd)**

(B) Use of Nonpermanent Facilities for Temporary Video Broadcast

Nonpermanent facilities consist of portable microwave equipment (e.g., transmitter, receiver, antenna, connecting cables and associated equipment) which is set up for the broadcast and subsequently removed after the broadcast.

The rates and charges for services provided over nonpermanent facilities are developed on an Individual Case Basis. The Technician Standby charge will apply to the time the Videoband Service is provided.

(C) Joint Provisioning of Service

Where more than one Telephone Company is involved in the provisioning of a Temporary Videoband Service, such jointly provided facilities are subject to the rules and regulations outlined in Section 3.3.1 (Single Company and Multiple Company Billing).

The Technician Standby charge will be applied to the time the service is provided in either a multiple company billing or a single company billing application.

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5. **SPECIAL ACCESS** (Cont'd)

5.6 **Rate Regulations** (Cont'd)

5.6.9 **Special Access Surcharge**

Pending the development of techniques to accurately measure usage of local facilities which are interconnected by users by means of intrastate or foreign telecommunications, a surcharge of \$25.00 per service per month (GSEC: ASAL SCHG) will be assessed to a two point Special Access Service, and to each additional Special Access Line when the service is configured as multipoint. The Special Access Surcharge will also be assessed upon Wideband Analog and High Capacity Digital Services on a voice equivalent basis. The voice equivalency for these type services is as follows:

- High Capacity DS1 equates to 24 Voiceband Facilities
- High Capacity DS1C equates to 48 Voiceband Facilities
- High Capacity DS3 equates to 672 Voiceband Facilities
- High Capacity DS3C equates to 1344 Voiceband Facilities
- Wideband Group equates to 12 Voiceband Facilities
- Wideband Supergroup equates to 60 Voiceband Facilities
- Wideband Mastergroup equates to 600 Voiceband Facilities

The Special Access Service will be exempted from the monthly surcharge if the customer provides the Telephone Company written certification that the termination is one of the following:

- (1) The open end termination (dial tone end) of a Foreign Central Office Line, Common Control Switching Arrangement (or equivalent) or Off Network Access Line (ONAL).
- (2) Any termination of an analog circuit used for radio or television program transmission.
- (3) Any termination of a line used for telex service.

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5. **SPECIAL ACCESS** (Cont'd)

5.6 **Rate Regulations** (Cont'd)

5.6.9 **Special Access Surcharge** (Cont'd)

- (4) Any termination of a line by nature of its operating characteristics and nature of connection could not make use of common lines.
- (5) Any line termination, other than (1) through (4) preceding, which is subject to the following charges: (a) Carrier Common Line, (b) Common Line Termination, (c) End Office Switching, (d) Intercept and (e) Switched Transport.
- (6) A termination that the customer certifies to the Telephone Company is not connected to a PBX or other device capable of interconnecting the Special Access Service to the local network. If the PBX or other device has been configured either through software programming or physical restrictions not to access the local network, then the customer may file the surcharge exemption for the Special Access Service terminating on this equipment.

In order for the Telephone Company to determine the application of the surcharge with respect to specific services, the customer must report the intended use of all services when placing ASRs for Special Access Service. In addition, when ordering High Capacity Analog or Digital services, the customer must report the use for each voice equivalent circuit of the high capacity service. When any circuit is reported wholly used in any manner described in (1) through (6) preceding, the surcharge will not apply. If the intended use is not reported, the surcharge will apply.

If, at any time after the installation of a service which is subject to the surcharge, the customer reports that the service is being used consistently with any exception listed above, the Telephone Company will credit the customer for the surcharge. Credit will not be give beyond the receipt date of the certification for exemption.

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**5. SPECIAL ACCESS (Cont'd)**

**5.6 Rate Regulations (Cont'd)**

**5.6.10 Message Station Equipment Recovery Charge**

Message Station Equipment Recovery Charge is a charge to recover that portion of message station equipment which is assigned to Special Access Service.

In accordance with CC Docket 83-1145 Memorandum Opinion and Order adopted by the Federal Communications Commission on November 8, 1984, and released on November 9, 1984, this charge is assessed on those equivalent lines subject to the Special Access Surcharge as set forth in 5.6.9 preceding. The rate for the Message Station Equipment Recovery Charge is set forth in Section 5.7.2 following.

**5.6.11 (Reserved for Future Use)**

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \***

**5.7.1 Nonrecurring Charges**

	<u>GSEC</u>	<u>Nonrecurring Charge</u>
(A) <u>Special Access Ordering Charges</u>		
(1) <u>Initial Ordering Charge - Special Access         Per ASR</u>	NAIOCSP	\$115.59
(2) <u>Subsequent Ordering Charge -         Special Access, Per ASR</u>	NASOCSP	85.37
(B) <u>Service Installation Charge,     per SAL</u>	NASICSP	216.97
(C) <u>Design Change Charge, per ASR per Occurrence</u>	NADCCSP	111.92
(D) <u>Temporary Videoband Service</u>	ICB	
	<u>GSEC</u>	<u>Monthly Rate</u>

**5.7.2 Message Station Equipment Recovery  
Charges** AMSER      \$ .00

**5.7.3 (Reserved for Future Use)**

**5.7.4 (Reserved for Future Use)**

\* Rates and charges are applicable for the Citizens Minnesota exchanges of Adams, Alden, Bigelow, Kiester, Leroy and Lyle only.



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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.5 Voiceband Facilities**

(A) Standard Arrangements

		GSEC	Monthly Rate
(1)	Special Transport - Per Airline Mile	ANVP ST2	23.27
		ANV ST4	23.27
		AWT ST	23.27
(2)	Special Access Line		
	Two-Wire	ANVP AC2	13.11
		ANVP SAL2	13.11
		AWT SAL2	13.11
	Four-Wire	ANV SAL4	20.97
		ANV AC4	20.97
		AWT SAL4	20.97
(3)	(Reserved for Future Use)		

(B) Optional Arrangements  
Supplemental Features

		<u>GSEC</u>	<u>Monthly Charge</u>	<u>GSEC</u>	<u>Nonrecurring Rate</u>
(1)	Multi-point Data Bridging, Per Port	NAVMDBI	\$ 90.66	AV MDB	\$4.18
(2)	Voice Conference Bridging, Per Port	NAVVCBI	113.32	AV VCB	2.92

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.5 Voiceband Facilities (Cont'd)**

(B) Optional Arrangements Supplemental Features  
(Cont'd)

(3)	Alarm Distribution Bridging	Monthly	Nonrecurring
		<u>GSEC</u> <u>Charge</u>	<u>GSEC</u> <u>Rate</u>
(a)	Common Equipment		
	NAVADBCEI	\$126.76	AV ADBCE    \$13.71
(b)	Per Two-Wire Port		
	NAVADB2PI	58.06	AV ADB2P    1.39
(4)	Conditioning Arrangements - Data		
(a)	Type C, Per SAL arranged		
	NAVCCI	97.83	AV CC    .80
(b)	Type DA, Per SAL arranged		
	NAVCDAI	84.91	AV CDA    .75
(5)	Signaling Arrangements, Per SAL		
(a)	Loop Signaling Range Extension		
	NAVLSREI	90.66	AV LSRE    3.19

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.5 Voiceband Facilities (Cont'd)**

(B) Optional Arrangements Supplemental Features  
(Cont'd)

(5) Signaling Arrangements, Per SAL (Cont'd)

		Monthly		Nonrecurring
		<u>GSEC</u>	<u>Charge</u>	<u>GSEC</u>
				<u>Rate</u>
(b)	Loop or E&M to SF NAVLEM/SFI		\$105.91	AV LEM/SF \$ 8.33
(c)	E&M to DX NAVEM/DXI		104.58	AV EM/DX 5.52
(d)	E&M to Loop NAVEM/LI		94.06	AV EM/L 3.31
(e)	Loop or E&M to PCM NAVLEM/PI		28.66	AV LEM/P 1.89
(f)	Automatic Ringdown NAVARI		99.15	AV AR 5.17
(6)	Echo Control, per circuit			
(a)	Echo Suppression NAVECESI		160.27	AV ECES 10.69
(b)	Echo Canceller NAVECECI		212.56	AV ECEC 18.84

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.5 Voiceband Facilities (Cont'd)**

(B) Optional Arrangements Supplemental Features  
(Cont'd)

	<u>GSEC</u>	<u>Monthly Charge</u>	<u>GSEC</u>	<u>Nonrecurring Rate</u>
(7) Voiceband Facility Switching Arrangement NAVVGSAI		\$107.98	AV VGSA	\$ 2.61
(8) Dataphone Select-A-Station Bridging Common Equipment				
(a) Addressable	**		**	
(b) Sequential	NAVDSBCESI	2,279.09	AV DSBCEI	95.34
(9) Dataphone Select-A-Station Bridging				
(a) Each Two-Wire Port Connected NAVDSB2PI		42.12	AV DSB2	2.09
(b) Each Four-Wire Port Connected	**		**	
(10) Improved Return Loss, Per SAL	NAIRL	75.92	AIRL	4.01
(11) Improved Termination Option, Per SAL	NAITO	122.24	AITO	12.07
(12) Improved ELEPL, Per SAL	NAIELEPLO	75.92	AIELEPO	4.01

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\*\* This Service now offered as ICB in Section 5.6.5.

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.6 Program Audio (200 - 3500 Hz) Facilities**

(A) Standard Arrangements

		<u>GSEC</u>	<u>Monthly Charge</u>	<u>GSEC</u>	<u>Nonrecurring Rate</u>
(1)	Special Transport - Per Airline Mile	AP35 STM	\$23.09	AP35 STD	\$2.31
(2)	Special Access Line	AP35 SALM	13.01	AP35 SALD	1.30
		AP35 ACM	13.01	AP35 ACD	1.30

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.6 Program Audio (200 - 3500 Hz) Facilities (Cont'd)**

(B) Optional Arrangements Supplemental Features

		<u>GSEC</u>	<u>Monthly Rate</u>	<u>GSEC</u>	<u>Daily Rate</u>
(1)	Program Audio Bridging, Per	AP B	\$ .60	AP BD	\$.06
	Nonrecurring Charge	NAP BI	14.05		
(2)	Conditioning - Program Audio - Zero Loss, Per SAL arranged	AP CZL	\$ 1.84	AP CZLD	\$.18
	Nonrecurring Charge, Per SAL arranged	NAPCZLI	11.81		

\* Rates and charges are applicable for the Citizens Minnesota exchanges of Adams, Alden, Bigelow, Kiester, Leroy and Lyle only.

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.7 Program Audio (100-5000 Hz) Facilities**

(A) Standard Arrangements

			Monthly Rate		Daily Rate
	<u>GSEC</u>			<u>GSEC</u>	
(1)	Special Transport - Per Airline Mile	AP50 STM	\$34.64	AP50 STD	\$3.46
(2)	Special Access Line	AP50 SALM	23.72	AP50 SALD	2.37
		AP50 ACM	23.72	AP50 ACD	2.37

(B) Optional Arrangements Supplemental Features

			Monthly Rate		Daily Rate
	<u>GSEC</u>			<u>GSEC</u>	
(1)	Program Audio Bridging, Per Port	AP B	\$ .60	AP BD	\$.06
	Nonrecurring Charge	NAP BI	14.05		
(2)	Conditioning - Program Audio - Zero Loss, Per SAL arranged	AP CZL	\$ 1.84	AP CZLD	\$.18
	Nonrecurring Charge, Per Sal arranged	NAPCZLI	11.81		

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.8 Program Audio (50-8000 Hz) Facilities**

(A) Standard Arrangements

			<u>Monthly</u>		<u>Daily</u>
	<u>GSEC</u>		<u>Rate</u>	<u>GSEC</u>	<u>Rate</u>
(1)	Special Transport - Per Airline Mile	AP80 STM	\$46.19	AP80 STD	\$4.61
(2)	Special Access Line	AP80 SALM	24.52	AP80 SALD	2.46
		AP80 ACM	24.52	AP80 ACD	2.46

(B) Optional Arrangements  
Supplemental Features

			<u>Monthly</u>		<u>Daily</u>
	<u>GSEC</u>		<u>Rate</u>	<u>GSEC</u>	<u>Rate</u>
(1)	Program Audio Bridging, Per Port	AP B	\$ .60	AP BD	\$ .06
	Nonrecurring Charge	NAP BI	14.05		
(2)	Conditioning - Program Audio - Zero Loss, Per SAL arranged	AP CZL	\$ 1.84	AP CZL	\$ .18
	Nonrecurring Charge, Per Sal arranged	NAPCZLI	11.81		

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.9 Program Audio (50-15000 Hz) Facilities**

(A) Standard Arrangements

			Monthly		Daily
	<u>GSEC</u>		<u>Rate</u>	<u>GSEC</u>	<u>Rate</u>
(1)	Special Transport - Per Airline Mile	AP150 STM	\$69.28	AP150 STD	\$6.93
(2)	Special Access Line	AP150 SALM	26.80	AP150 SALD	2.67
		AP150 ACM	26.80	AP150 ACD	2.67

(B) Optional Arrangements  
Supplemental Features

			Monthly		Daily
	<u>GSEC</u>		<u>Rate</u>	<u>GSEC</u>	<u>Rate</u>
(1)	Program Audio Bridging, Per Port	AP B	\$ .60	AP BD	\$ .06
	Nonrecurring Charge	NAP BI	14.05		

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.9 Program Audio (50 - 15000 Hz) Facilities (Cont'd)**

(B) Optional Arrangements Supplemental Features  
(Cont'd)

	<u>GSEC</u>	<u>Monthly Rate</u>	<u>GSEC</u>	<u>Daily Rate</u>
(2) Conditioning - Program Audio - Stereo Conditioning, Per Occurrence	AP150 CS	\$ .34	AP150 CSD	\$ .03
Nonrecurring Charge	NAP150CSI	38.04		
	<u>GSEC</u>	<u>Monthly Rate</u>	<u>GSEC</u>	<u>Daily Rate</u>
(3) Conditioning - Program Audio - Zero Loss, Per SAL arranged	AP CZL	\$ 1.84	AP CZLD	\$ .18
Nonrecurring Charge, Per SAL arranged	NAPCZLI	11.81		

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5. **SPECIAL ACCESS (Cont'd)**

5.7 **Rates and Charges \* (Cont'd)**

5.7.10 **High Capacity Digital (1.544 Mbps) Facilities**

(A) **Standard Arrangements**

		<u>GSEC</u>	<u>Non-Recurring Rate</u>	<u>GSEC</u>	<u>Monthly Rate</u>
(1)	Special Access Line				
	First System	NAHCD1SALF	\$1,969.16	AHCD1 SAL	\$233.54
		NAHCD1 ACF	\$1,969.16	AHCD1 AC	\$233.54
	Each Additional System	NAHCD1 SALA	\$60.12	AHCD1 SALA	\$111.13
		NAHCD1 ACA	\$60.12	AHCD1 ACA	\$111.13
(2)	Special Transport - Termination	-	-	AHCD1 STT	\$13.70
(3)	Special Transport - Per Airline Mile	-	-	AHCD1 ST	\$36.71

(B) **Optional Arrangements  
Supplemental Features**

(1)	Automatic Protection Switching	NAHCD1APSI	\$641.35	AHCD1 APS	\$50.67
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(C) **Cross Connect**

(1)	per each interconnect type					(N)
	1.5 Mbps connection				\$10.00	
	45 Mbps connection					(N)

5.7.11 **High Capacity Digital DS1C (3.152 Mbps) Facilities** \*\*

\* Rates and charges are applicable for the Citizens Minnesota exchanges of Adams, Alden, Bigelow, Kiester, Leroy and Lyle only.

\*\* This Service now offered as ICB in Section 5.6.12.

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.12 (Reserved for Future Use)**

**5.7.13 (Reserved for Future Use)**

Via Permanent      Via Nonpermanent  
Facilities                      Facilities

**5.7.14 Temporary Videoband Facilities**

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\*\*

**5.7.15 Digital Data Service Facilities**

(A) Standard  
Arrangements

		<u>GSEC</u>	<u>Monthly</u> <u>Rate</u>
(1)	Special Transport - Per Airline Mile	ADD ST	\$ 37.55
(2)	Special Access Line	ADD SAL	58.59
		ADD AC	58.59
(3)	(Reserved for Future Use)		

(B) Optional Arrangements Supplemental Features

		<u>GSEC</u>	<u>Monthly</u> <u>Charge</u>		<u>GSEC</u>	<u>Nonrecurring</u> <u>Rate</u>
(1)	DDS Bridging Per Port	NADDBI	\$ 15.68		ADD B	\$ 6.64

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\*\* This Service now offered as ICB in Section 5.6.5.

\*\*\* Provisioned as set forth in accordance with Special Construction in Section 10.

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.16 Multiplexing Arrangements**

	<u>GSEC</u>	Nonrecurring <u>Charge</u>	<u>GSEC</u>	Monthly <u>Rate</u>
(A) Voice to Narrowband	NAV/NI	5,910.99	AV/N	247.18
(B) DS1 to Voice	NADS1/VI	1,743.80	ADS1/V	121.13
(C) DS1C to Voice	**	**		
(D) DS1C to DS1	**	**		
(E) Digital Data Carrier Multiplexer				
(1) Common Equipment	NADDCMCEI	1,331.80	ADDCMCE	103.67
(2) Each 64 kbps Per Port	NADDCMPI	87.06	ADDCMP	8.54

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**5. SPECIAL ACCESS (Cont'd)**

**5.7 Rates and Charges \* (Cont'd)**

**5.7.16 Multiplexing Arrangements (Cont'd)**

			Nonrecurring		Monthly	
			<u>GSEC</u>	<u>Rate</u>	<u>GSEC</u>	<u>Rate</u>
(F)	Digital Data Subrate Multiplexer					
(1)	One 64 kbps to Twenty 2.4 kbps	NADDSM/20I	\$931.80	ADDSM/20	\$83.12	
(2)	One kbps to Ten 4.8 kbps	NADDSM/10I	854.40	ADDSM/10	62.91	
(3)	One 64 kbps to Five 9.6 kbps	NADDSM/5I	728.92	ADDSM/5	55.94	
(G)	Digital Data Office Channel Unit, Per SAL					
(1)	2.4 kbps	NADDCO24I	90.32	ADDOC24	12.40	
(2)	4.8 kbps	NADDOC48I	90.32	ADDOC48	12.60	
(3)	9.6 kbps	NADDOC96I	90.32	ADDOC96	12.81	
(4)	56 kbps	NADDOC56I	90.32	ADDOC56	18.76	

**5.7.17 (Reserved for Future Use)**

**5.8 Miscellaneous Special Access Services**

**5.8.1 (Reserved for Future Use)**

**5.9 (Reserved for Future Use)**

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