7. Special Access Service

7.1 General

Special Access Service with the exception of the WATS Access Line and Customer Network Reconfiguration Service, provides a transmission path to connect customer designated premises*, either directly or through a Telephone Company Hub where bridging, multiplexing or Customer Network Reconfiguration Service functions are performed. The WATS Access Line, offered under Voice Grade Service, provides a transmission path connecting a customer designated premises with a WATS serving office. Customer Network Reconfiguration Service, provides customers with the ability to reconfigure their Special Access circuits. Special Access Service includes all exchange access not utilizing Telephone Company end office switches.

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

There are seven types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following:

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

Customers can order a basic channel and select from a list of available transmission parameters and channel interfaces those that they desire to meet specific communications requirements.

* Telephone Company Centrex CO-like switches, Telephone Company Answering Service Concentrators and packet switches included in Public Packet Switched Network (PPSN) Service are considered to be customer premises for purposes of administering regulations and rates contained in this tariff.

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7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this tariff, there is no restriction against doing so.

Following is a brief description of each type of channel:

Metallic - a channel for the transmission of low speed varying signals at rates up to 30 baud.

Telegraph Grade - a channel for the transmission of binary signals at rates of 0 to 75 baud or 0 to 150 baud.

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300 to 3000 Hz. This may also include channels for use for 800 Service, WATS, or similar services.

Program Audio - a channel for the transmission of audio signals. The nominal frequency bandwidths are from 50 to 15000 Hz, from 200 to 3500 Hz, from 100 to 5000 Hz or from 50 to 8000 Hz.

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Digital Data - a channel for the digital transmission of synchronous serial data at rates of 2.4. 4.8, 9.6, 19.2 56 or 64 kpbs. (C)

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544. 3.152, 6.312. 44.736 or 274.176 Mbps.

Detailed descriptions of each of the channel types are provided in 7.2 following.

The customer also has the option of ordering Voice Grade and digital high capacity facilities (i.e., 1.544 Mbps. 3.152 Mbps. 6.312 Mbps. 44.736 Mbps and 274.176 Mbps) 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 7.2 following. Additionally. the customer may specify optional features for the individual channels derived from the facility to further tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are also set forth in 7.2 following.

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

For example, a customer may order a 3.152 Mbps facility from a customer designated premises 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 Voice Grade or Digital Data (i.e., 2.4. 4.8. 9.6, 19.2. 56 or 64 kbps) channels or may be extended to other customer designated prernises. Optional features may be added to either the 1.544 Mbps or the Voice Grade channels. (C)

7.1.2 Rate Categories

There are three basic rate categories which apply to Special Access Service:

- Channel Terminations (described in 7.1.2(A) following)
- Channel Mileage (described in 7.1.2(B) following)
- Optional Features and Functions (described in 7.1.2(C) following)

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Rate Categories (Cont'd)

(A) Channel Termination

The Channel Termination rate category provides for the communications path between a customer designated premises and the serving wire center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in (C) following. One Channel Termination charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are co-located in a Telephone Company building.

7. Svecial Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Rate Categories (Cont'd)

(B) Channel Mileage

The Channel Mileage rate category provides for the transmission facilities between the serving wire centers associated with two customer designated premises, between a serving wire center associated with a customer designed premises and a Telephone Company hub or between two Telephone Company hubs. Channel Mileage is portrayed in mileage bands. There are two rates that apply for each band, i.e., a flat rate per band and a rate per mile.

(C) Optional Features and Functions

The Optional Features and Functions rate category provides for optional features and functions which may be added to a Special Access Service to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, 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 equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged for as a single rate element.

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Rate Categories (Cont'd)

(C) Optional Features and Functions (Cont'd)

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions
- Conditioning
- Transfer Arrangements

A hub is a Telephone Company designated serving wire center at which bridging, multiplexing or Customer Network Reconfiguration Service functions are performed. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. The multiplexing functions are to channelize analog or digital facilities to individual services requiring a lower capacity or bandwidth. The Customer Network Reconfiguration Service functions allow customers to reconfigure their Special Access Services. National Exchange Carrier Association, Inc. Tariff FCC No. 4 identifies serving wire centers, hub locations and the type of bridging, multiplexing or Customer Network Reconfiguration Service functions available.

Descriptions for each of the available Optional Features and Functions are set forth in 7.2 following.

7.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multipoint service.

(A) Do-Point Service

A two-point service connects two customer designated premises, or a customer designated premises and a serving office for Voice Grade WATS Access Line Service, either on a directly connected basis or through a hub where multiplexing functions are performed. In addition, a two point service may connect a customer designated premises and a Customer Network Reconfiguration Service hub.

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

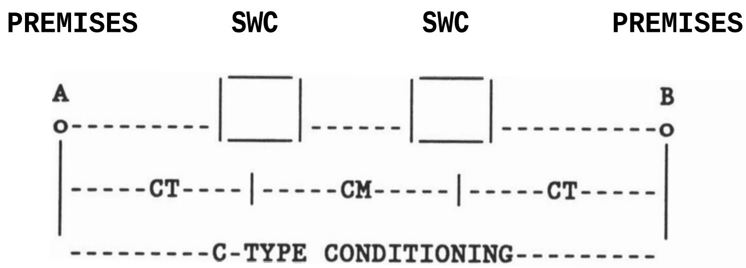
(A) Two-Point Service (Cont'd)

Applicable rate elements are:

- Channel Terminations*
- Channel Mileage (as applicable)
- Optional Features and Functions (when applicable)

In addition, a Special Access Surcharge, as set forth in 7.4.2 following, may be applicable.

(1) The following diagram depicts a two-point Voice Grade service connecting two customer designated premises located 15 miles apart. The service is provided with C-Type conditioning.



CT - Channel Termination
CM - Channel Mileage
SWC - Serving Wire Center

Applicable rate elements are:

- Channel Terminations (2 applicable)
- Channel Mileage (mileage band Over 8 to 25 miles)
- C-Type Conditioning Optional Feature

*Only one Channel Termination will apply for Voice Grade WATS Access Line Service, (see diagram on Page 109.6.1). (C)
(C)

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President, Cincinnati, Ohio

Vice President
Integrated Corporate Planning for

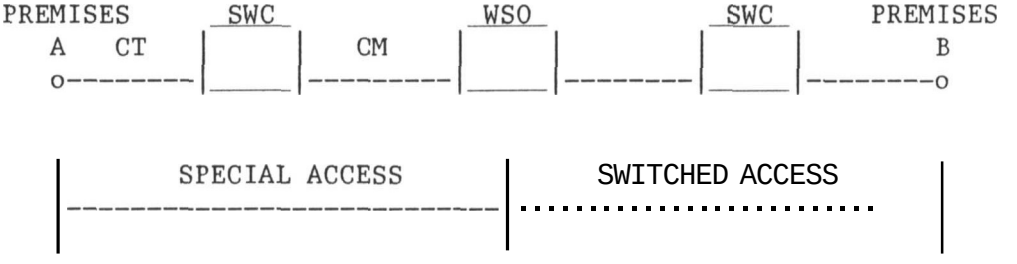
7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(A) Two-Point Service (Cont'd)

(2) The following diagram depicts a Voice Grade WATS Access Line Service where the WATS Serving Office is 10 miles from the serving wire center of the customer designated premises.



CT - Channel Termination
CM - Channel Mileage
SWC - Serving Wire Center
WSO - WATS Serving Office

Applicable rate elements are:

- Channel Termination (one applicable)
- Channel Mileage (mileage band 9-25)
- Switched Access rates (see Section 6)

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7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

Multipoint service connects three or more customer designated premises through a Telephone Company hub. Only certain types of Special Access Service are provided as multipoint service. These are so designated in the Service Descriptions set forth in 7.2 following.

The channel between hubs (i.e., bridging locations) on a multipoint service is a mid-link. There is no limitation on the number of mid-links available with a multipoint service. However, when more than three mid-links in tandem are provided the quality of the overall service may be degraded.

Multipoint service utilizing a customized technical specifications package, as set forth in 7.2 following, will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multipoint service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging hub(s). National Exchange Carrier Association Tariff FCC No. 4 identifies serving wire centers, hub locations and the type of bridging functions available.

Applicable Rate Elements are:

- Channel Terminations (one per customer designated premises)
- Channel Mileage (as applicable between each designated customer premises and the hub and between hubs).
- Bridging
- Additional Optional Features and Functions (when applicable).

In addition, the Special Access Surcharge, as set forth in 7.4.2 following, may be applicable.

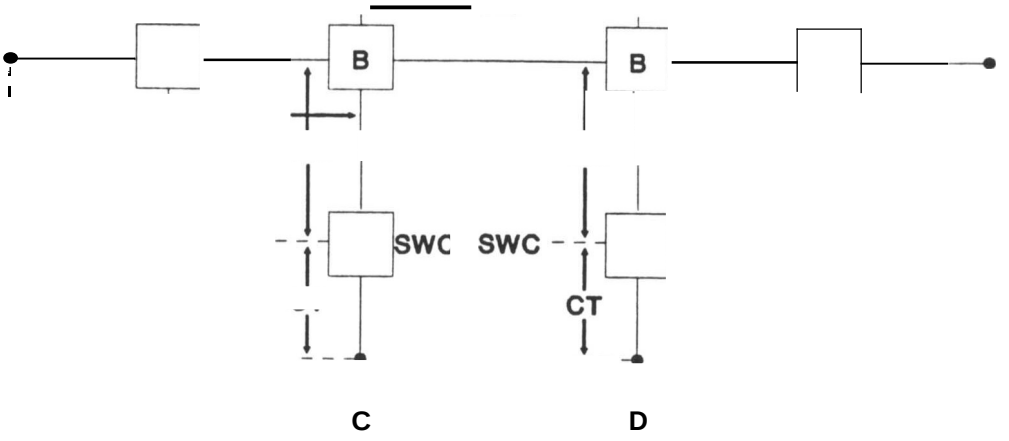
7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(B) Multipoint Service (Cont'd)

Example: Voice Grade multipoint service connecting four customer premises via two customer specified bridging hubs.



CT - Channel Termination
CM - Channel Mileage
B - Bridging
SWC - Serving Wire Center

Applicable rate elements are:

- Channel Terminations (4 applicable)
- Channel Mileage (5 sections, each from appropriate mileage band)
- Bridging Optional Feature (6 applicable, i.e., each bridge port)

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7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(C) Customer Network Reconfiguration Service (CNRS)

CNRS provides customer management capability of Voice Grade Service Channels, 9.6. 19.2. 56 and 64 Kbps Digital Data Service channels and MercNET 1.5 High Capacity Service Channels as specified in 7.2.10 following. CNRS is provided from CNRS hubs which are identified in the National Exchange Carrier Association, Inc. Tariff FCC No. 4. DS1 High Capacity Service facilities between CNRS hubs are referred to as CNRS mid links. Digital Data and Voice Grade Service channels are not available for use as CNRS mid links. (C)

Applicable rate elements with monthly rates are:

- DSO and DS1 Port Charges
- Channel Termination Charges (One per customer designated premises)
- Channel Mileage Charges (as applicable between each designated customer premises and a CNRS hub and between CNRS hubs).

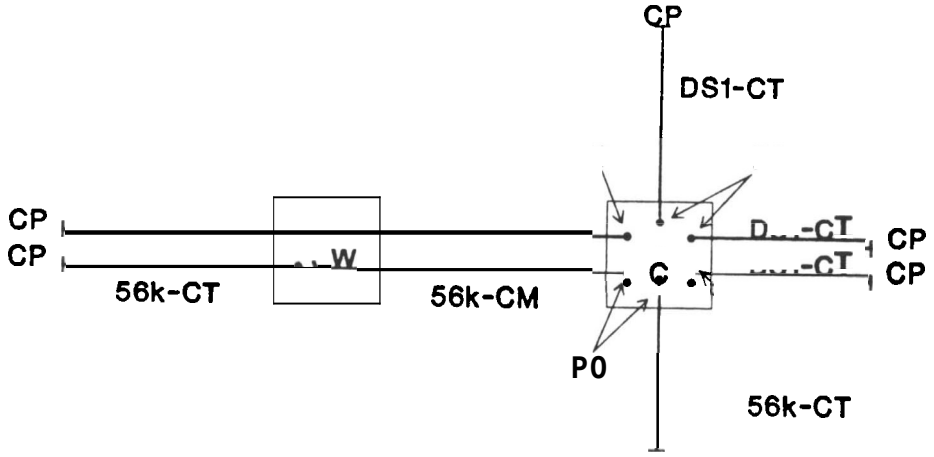
7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(C) Customer Network Reconfiguration Service (CNRS) (Cont'd)

Example: CNRS configuration utilizing one CNRS hub, four customer premises locations served by DS1 High Capacity channels and two customer premises locations served by 56 kbps Digital Data channels.



CP - Customer Premises
C - CNRS Hub
SWC - Serving Wire Center
DS1 - DS1 High Capacity Service
CT - Channel Termination
CM - Channel Mileage
PO - CNRS DSO Port
P1 - CNRS DS1 Port
56k - 56 kbps Digital Data Service

Rate elements with monthly rates are:

- Channel Termination (four DS1 and two 56 kbps DDS are applicable)
- Channel Mileage (one section of DS1 and one section of 56 kbps DDS are applicable)
- CNRS Port Charges (four DS1 and two DSO are applicable)

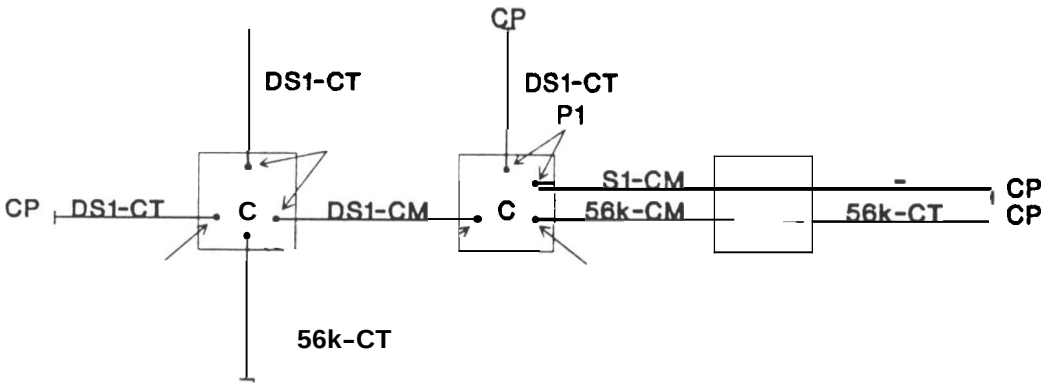
7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.3 Service Configurations (Cont'd)

(C) Customer Network Reconfiguration Service (CNRS) (Cont'd)

Example: CNRS configuration utilizing two CNRS hubs and four customer premises locations served by DS1 High Capacity channels and two customer premises locations served by 56 kbps Digital Data Channels



CP - Customer Premises
C - CNRS Hub
SWC - Serving Wire Center
DS1 - DS1 High Capacity Facility
CT - Channel Termination
CM - Channel Mileage
PO - CNRS DSO Port
P1 - CNRS DS1 Port
56k - 56 kbps Digital Data Services

Rate elements with monthly recurring rates are:

- Channel Termination (four DS1 and two 56 kbps DDS are applicable)
- Channel Mileage (two sections of DS1 and one section of 56 kbps DDS are applicable)
- CNRS Port Charges (three DS1 and one DSO terminations are applicable in hub on left and three DS1 and one DSO terminations are applicable in hub on right).

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 12., Specialized Service or Arrangements. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Channel Terminations, Channel Mileage [as applicable] and Optional Features and Functions [if any]).

7.1.5 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 set forth in 11. following.

7.1.6 Desian Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

7.1.7 Accevtance Testing

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

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.7 Acceptance Testing (Cont'd)

(A) For Voice Grade analog services, except WATS Access Line, acceptance tests will include tests for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise, and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.

(B) For other analog services (i.e., Metallic, Telegraph, Program Audio, and Voice Grade WATS Access Line) and for digital services (i.e., Digital Data and High Capacity), acceptance tests will include tests for the parameters applicable to the service as specified in the appropriate Technical Reference document listed in 7.2 following.

In addition to the above tests, Additional Cooperative Acceptance Testing Voice Grade service to test other parameters, as described in 13.3.5(B) following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service may be provisioned to the customer by an Access Order. Details of the ordering process are set forth in Section 5, preceding. Also included in that Section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.). (C)

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7. Special Access Service (Cont'd)

7.2 Service Descriptions

For the purpose of ordering, there are six categories of Special Access Service. These are:

Metallic (MT)
Telegraph Grade (TG)
Voice (VG)
Program Audio (AP)
Digital Data (DA)
High Capacity (HC)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Each of the components of the service is described in this section.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Telephone Company hub where bridging or multiplexing functions are performed.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service. The letter "C" following the two letter code indicates the technical specifications package for a customized service. An alpha, numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

Channel interfaces at each Point of Termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical, but communications can only be provided between compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in the appropriate Technical References.

Only certain channel interfaces combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth in the service descriptions for each service offering. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

The optional features and functions available with each type of Special Access Service are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications packaged listed across the top.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff, except that existing services with performance specifications exceeding the standards listed in this provision will be maintained at the performance levels specified in this tariff.

All services installed after the effective date of this tariff will conform to the transmission specification standards contained in this tariff or in the following Technical References for each category of service:

Metallic	TR-NPL-000336
Telegraph Grade	TR-NPL-000336
Voice Grade	TR-NPL 000335
	PUB 41004, Table 4
Program Audio	TR-NPL-000337
Digital Data	TR-NPL-000341
	PUB 62310
High Capacity	TR-NPL-000054
	TR-TSY-000342
WATS Access Line	TR-NPL 000334

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.1 Metallic Service (Cont'd)

(A) Basic Channel Description

A Metallic channel is an unconditioned two-wire channel capable of transmitting low speed varying signals at rates up to 30 baud. This channel is provided by metallic or equivalent facilities. Metallic channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub where bridging functions are performed. Interoffice metallic facilities will be limited in length to a total of five miles per channel.

(B) Technical Svecifications Packages

Parameter	Package MT-C	1	2	3
DC Resistance Between Conductors	X	X	X	
Loop Resistance	X			X
Shunt Capacitance	X			X

The technical specifications are delineated in Technical Reference TR-NPL-000336.

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7. Special Access Service (Cont'd)

7.2 Service Descrivtions (Cont'd)

7.2.1 Metallic Service (Cont'd)

(C) Channel Interfaces

The following channel interfaces identify the direct current or voltage at the interface.

CI	DC/Vo1taae
DC-1	Monitoring with series RC combination
DC-2	Energized interface
DC-3	DC Continuity

Compatible channel interfaces are set forth in Technical Reference TP-NPL-000336.

(D) Optional Features and Functions

(1) Central Office Bridging Capability

(a) Three Premises Bridging - Provision of tip-to-tip and ring-to-ring connection in a central office of a metallic pair to a third customer designated premises.

(b) Series Bridging of up to 26 customer designated premises.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package MT-			
	C	1	2	3
Three Premises Bridging	X	X		X
Series Bridging	X		X	

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.2 Telegraph Grade Service

(A) Basic Channel Description

A Telegraph Grade channel is an unconditioned channel capable of transmitting binary signals at rates of 0-75 baud or 0-150 baud. This channel is furnished for half-duplex or duplex operation. Telegraph Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

(B) Technical Specifications Packages

	Package TG-		
Parameter	C	1	2
Telegraph Distortion	X	X	X

The technical specifications are delineated in Technical Reference TR-NPL-000336.

(C) Channel Interfaces

Following are channel interfaces normally associated with with Telegraph Grade Service.

CI	Definition
TT2	20 Ma
TT3	3 Ma
TT6	62.5 Ma
DB10	108 Data Set
DB43	43 Telegraph Carrier
IA	E.I.A. RS-232

Compatible channel interfaces are set forth in Technical Reference TR-NPL-000336.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.2 Telegraph Grade Service (Cont'd)

(D) Optional Features and Functions

(1) Telegraph Bridging (two-wire and four-wire)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package TG-		
	C	1	2
Telegraph Bridging	X	X	X

7.2.3 Voice Grade Service

(A) Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated two-wire or four-wire. Voice Grade channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub or as a WATS Access Line (WAL) between a customer designated premises and a WATS Serving Office (WSO).

WAL Service is associated with the closed end of 800 Service, WATS or similar services. It is provided for use with Switched Access Service as set forth in Section 6 preceding. (C)

(C)

WAL Service is arranged for either originating calling, terminating calling, or two way calling. It is provided with either rotary dial or dual tone multifrequency address signaling and either loop start, ground start, E&M or reverse battery supervisory signaling. The choice of signaling is at the option of the customer and subject to the technical limitations identified in the Technical Reference TR-NPL-000334.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(B) Technical Specifications Packages

Parameter	Package VG- C*	1	2	3	4	5	6	7	8	9	10	11	12	W
Attentuation Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control	X	X	X	X		X		X	X			X	X	X
Envelope Delay Distortion	X						X	X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X	X
Intermodulation Distortion	X						X	X	X	X	X	X		X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain Hits, and Dropouts	X													
Phase Jitter	X						X	X	X	X	X	X		X
Signal-to-C Message Noise				X										
Signal-to-C Notch Noise	X				X	X	X	X	X	X	X	X	X	X

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*The desired parameters are selected by the customer from the list of available parameters.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(B) Technical Svecifications Packages (Cont'd)

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical References TR-NPL-000334 and TR-NPL-000335. The technical specifications for dropouts, phase hits, and gain hits are determined in Technical Reference PUB 41004, Table 4.

(C) Channel Interfaces

The following channel interfaces for Voice Grade service do not require signaling capability: DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

The following interfaces are available with WAL Service: LO, LS, DS, GO, GS, EB.

Compatible Voice Grade channel interfaces and available WAL channel interfaces are set forth in Technical References TR-NPL-000334 and TR-NPL-000335.

(D) Ovtional Features and Functions

(1) Central Office Bridging Capability

(a) Voice and WAL Bridging (two-wire and four-wire)

(b) Data Bridging (two-wire and four-wire)

(c) Telephoto Bridging (two-wire and four-wire)

(d) DATAPHONE Select-A-Station Bridging with sequential arrangement ports or addressable arrangement ports

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(2) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid-link or end link. C-Type conditioning and Data Capability may be combined on the same service.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(2) Conditioning (Cont'd)

(a) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are delineated in Technical Reference TR-NPL-000335.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(2) Conditioning (Cont'd)

(a) C-Type Conditioning (Cont'd)

Frequency Range (Hz)	Envelope Delay Distortion Variation (micro-seconds)
1000-2600	100
800-2600	200
600-2600	300
500-2800	600
500-3000	3000

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(2) Conditioning (Cont'd)

(b) Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.

(3) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical References TR-NPL-000334 and TR-NPL-000335.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(4) Improved Termination

On effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Termination parameters are delineated in Technical Reference TR-NPL-000335.

(5) Improved Return Loss

On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical References TR-NPL-000334 and TR-NPL-000335.

(6) Data Capability

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or multipoint services.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(6) Data Capability (Cont'd)

The Signal to C-Notched Noise Ratio and inter-modulation distortion parameters for Data Capability are:

- Signal to C-Notched Noise Ratio is equal to or greater than 32dB
- Intermodulation distortion:
  - Signal to second order modulation products (R2) is equal to or greater than 38dB.
  - Signal to third order modulation products (R3) is equal to or greater than 42dB.

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

(7) Telephoto Capability

Telephoto Capability provides transmission characteristics suitable for telephotographic communications. Specifically, Telephoto Capability is provided for the control of attenuation distortion and envelope delay distortion on telephotographic services. The attenuation distortion and envelope delay distortion parameters for Telephoto Capability are:

Attenuation Distortion
(2204Hz Reference)

Frequency Range (Hz)	Variation (dB)
500-3000	-0.5 to +1.5
300-3200	-1.0 to +2.5

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7. Svecial Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(7) Telephoto Capability (Cont'd)

Envelope Delav Distortion

Frequency Range (Hz)	Variation (mcs)
1000-2600	110
800-2800	180

(8) Signaling Capability

Signaling Capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

(9) Selective Signaling Arrangement

An arrangement that permits code selective ringing for up to ten codes on a multipoint service.

(10) Transfer Arrangement

An arrangement that affords customers an additional measure of flexibility in the use of their access channel(s). The arrangement can be utilized to transfer a leg of a Special Access Service to another channel that terminates in either the same or a different customer premises. A key activated control service is required to operate the transfer arrangement. A spare channel, if required, is not included as part of the service.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Svecifications Package VG-													
Parameter	C	1	2	3	4	5	6	7	8	9	10	11	12	W
C-Type Conditioning	X					X	X	X	X	X	X			
Central Office Bridging Capabi1i ty	X		X			X	X				X	X	X	X
Customer Specified Premises Receive Leve1	X		X	X				X	X	X				X
Data Capability	X						X	X			X			
Improved Termination	X	X	X	X	X	X	X	X	X	X	X	X	X	
Improved Return Loss	X		X	X				X						X
Improved Two-Wire Voice Transmission														X
Sealing Current Conditioning	X					X	X				X			
Selective Signaling Arrangement	X		X											
Signaling Capability	X	X	X	X				X	X	X				
Telephoto Capability	X											X		
Transfer Arrangement	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service (Cont'd)

(E) Four-Wire/Two-Wire Conversions

When a customer requests that an effective four-wire channel be terminated with a two-wire channel interface at the customer designated premises, a four-wire to two-wire conversion is required. The rate for the conversion is included as part of the basic Channel Termination rate.

(F) WAL Improved Two-Wire Voice Transmission

Two-wire Voice Grade Special Access Service for use as a WATS Access Line (WAL) may be ordered as standard or improved. Transmission specifications are set forth in Technical Reference TR-NPL-000334. The rate for the provision of Improved Two-Wire Voice Transmission is included as part of the basic Channel Termination rate.

(G) Certain other options associated with WAL services are either Line Termination or Common Switching optional features as defined in Section 6 preceding.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 Program Audio Service

(A) Basic Channel Description

A Program Audio channel is a channel measured in Hz for the transmission of a complex signal voltage. The actual bandwidth is a function of the channel interface selected by the customer. Only one-way transmission is provided. Program Audio channels are provided between customer designated premises or between a customer designated premises and a Telephone Company hub.

(B) Technical Specifications Packages

	Package AP-				
Parameter	C*	1	2	3	4
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking	X				
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency Distortion	X	X	X	X	X
Group Delay	X				
Noise	X	X	X	X	X
Phase Tracking	X				
Short-Term Gain Stability	X				
Short-Term Loss	X				
Total Distortion	X	X	X	X	X

The technical specifications are delineated in Technical Reference TR-NPL-000337.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bandwidths that are available for a Program Audio Channel:

* The desired parameters are selected by the customer from the list of available parameters.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.4 Proaram Audio Service (Cont'd)

(C) Channel Interfaces (Cont'd)

CI	Bandwidth
PG-1	Nominal frequency from 50 to 15000 Hz
PG-3	Nominal frequency from 200 to 3500 Hz
PG-5	Nominal frequency from 100 to 5000 Hz
PG-8	Nominal frequency from 50 to 8000 Hz

Compatible channel interfaces are set forth in Technical Reference TR-NPL-000337.

(D) Optional Features and Functions

(1) Central Office Bridging Capability

Distribution Amplifier

(2) Gain Conditioning

Control of 1004 Hz AML at initiation of service to odB ± 0.5 dB.

(3) Stereo

Provision of a pair of gain/phase equalized channels for stereo applications. (Additional AP channel must be ordered separately.)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Svecifications Package AP-				
	C	1	2	3	4
Central Office Bridging Capability	X	X	X	X	X
Gain Conditioning	X	X	X	X	X
Stereo	X				X

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.5 Reserved

7.2.6 Reserved

7.2.7 Reserved

7.2.8 Digital Data Service

(A) Basic Channel Description

A Digital Data channel is a channel for duplex four-wire transmission of synchronous serial data at the rate of 2.4, 4.8. 19.2, 9.6. 56 or 64 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated hubs and are provided between customer designated premises or between a customer designated premises and a Telephone Company hub. The 64 kbps speed requires B8ZS Line Code Formatted Signal. The 9.6. 19.2, 56 and 64 kbps Digital Data channels are available for use with Customer Network Reconfiguration Service as described in 7.2.10 following. (C) (C)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Data Service (Cont'd)

(B) Technical Specifications Packages

	Package DA-				
Parameter	1	2	3	4	6
Error-Free Seconds	X	X	X	X	X

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference TR-NPL-000341

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Data Service (Cont'd)

(C) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a Digital Data channel:

CI	Bit Rate	
DU-24	2.4 kbps	
DU-48	4.8 kbps	
DU-96	9.6 kbps	
DU-19.2	19.2 kbps	(C)
DU-56	56.0 kbps	
DU-64	64.0 kbps	

Compatible channel interfaces are set forth in Technical Reference TR-NPL-000341 and PUB 62310.

(D) Optional Features and Functions

(1) Central Office Bridging Capability

(2) (Reserved)

(3) Secondary Channel Capability

An arrangement that provides the customer the flexibility of utilizing a secondary channel in conjunction with a primary 2.4. 4.8. 9.6. 19.2 or 56 kbps Digital Data Service channel. The secondary channel and primary channel are provided over the same facilities (C)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.8 Digital Data Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Secondary Channel Capability (Cont'd)

as a two-point or multipoint service where available, and must be coterminated in special customer provided equipment. Secondary Channel Capability (SCC) is a derived companion digital transmission path that is independent of the primary data path and operates at a substantially lower bit rate. This derived channel allows the customer to perform network management functions during the normal operation of the network. This diagnostic channel utilizes a portion of a customer's previously unavailable data bit stream allowing for the ability to remotely control and test the network and peripheral devices without taking the network out of service. Due to the transmission equipment restrictions, SCC cannot be provided on 56 Kbps circuits that require the installation of loop repeater equipment for provision of service. The addition of the secondary channel option to an existing Digital Data Service will be treated as a subsequent addition to the existing service and rated as such. SCC is provided as described in Technical Reference TR-NPL-000157.

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package DA-			
	1	2	3	4
Central Office Bridging Capability	X	X	X	X
Secondary Channel Capability	X	X	X	X

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Vice President - Regulatory Affairs

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service

(A) Basic Channel Description

A High Capacity channel is a channel for the transmission of nominal 64.0 kbps* or 1.544, 3.152, 6.312, or 274.176 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises, between a customer designated premises and a Telephone Company hub, or Hub to Hub for Customer Network Reconfiguration at 1.544 Mbps transmission.

A MercNET 45 High Capacity channel is a channel for the transmission of nominal 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. MercNET 45 High Capacity Service channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

(B) Technical Specifications Packages

Parameters	Package HC-0	1	1C	2	3	4
Error-Free Seconds		X				

* Available only as a channel of a 1.544 Mbps facility between two Telephone Company Digital Hubs or as a cross connect of two 2.4, 4.8, 9.6, 56.0 or 64.0 kbps channels of two 1.544 Mbps facilities at a Digital Hub(s). The customer must provide system and channel assignment data.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(B) Technical Specifications Packages (Cont'd)

A channel with technical specifications package HC1 will be capable of an error-free second performance of **98.75%** over a continuous **24** hour period as measured at the **1.544** Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference TR TSY **000342**

Extended superframe signalling format may be provisioned and transported on channels with technical specifications package HCI. Testing for such channels is as specified in **7.1.7(B)** and any maintenance testing that is required to maintain the error free second performance specified herein. Additional testing requested by the customer is provided subject to the provisions set forth in **13.3.5** following.

(C) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a High Capacity channel:

CI	Bit Rate
DS-15*	**1.544** Mbps (DS1)
DS-27	**274.176** Mbps **(DS4)**
DS-31	**3.152** Mbps (DS1C)
DS-44	**44.736** Mbps (DS3)
DS-63	**6.312** Mbps **(DS2)**

Compatible channel interfaces are set forth in Technical References **TR-NPL-000054** and **TR-TSY-000342.**

(D) Optional Features and Functions

(1) Alternate Central Office Channel - Provides a transmission path for services between the customer's premises and a wire center which is not the customer's serving wire (N) | (N)

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* A **64.0** kbps channel is available as a channel(s) of a 1.544 Mbps facility to a Telephone Company hub.

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Vice President - **Regulatory Affair?**

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(1) center, thus avoiding the office which would normally serve the customer. It is available only where facilities exist using 1.544 and 45 mbps high capacity service. (C)

(2) Service To Service Through Connect Arrangement - This provides for the interconnection of two 1.544 Mbps channels extended from multiplexed DS3 high capacity services. The ordering customer must provide channel assignments for both multiplexed services. This service can only be provided when both multiplexed DS3's are in the same wire center.

(3) Central Office Multiplexing

(a) DS4 to DS1

An arrangement that converts a 274.176 Mbps channel to 168 DSI channels using digital time division multiplexing.

(b) DS3 to DS1

An arrangement that converts a 44.736 Mbps channel to 28 DS1 channels using digital time division multiplexing.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(3) Central Office Multiplexing (Cont'd)

(c) DS2 to DS1

An arrangement that converts a 6.312 Mbps channel to four DS1 channels using digital time division multiplexing.

(d) DS1C to DS1

An arrangement that converts a 3.152 Mbps channel. to two DS1 channels using digital time division multiplexing.

(e) DS1 to Voice

An arrangement that converts a 1.544 Mbps channel to *24* channels for use with Voice Grade Services. A channel(s) of this DS1 to the Hub can also be used for Program Audio, Metallic or WATS Access Line Service.

(f) DS1 to Digital Data

An arrangement that converts a 1.544 Mbps channel to 24 channels for use with individual digital data circuits to the Hub at speeds of 2.4, 4.8, 9.6, 56, or 64 Kbps. A channel of this DS1 to the Hub can also be used for Voice Grade, Program Audio, Metallic or WATS Access Line Service.

(g) DS1 to DS0

An arrangement that converts a 1.544 Mbps channel to 23 *64* kbps channels utilizing digital time division multiplexing. This arrangement can be provided with the Secondary Channel Capability feature of Digital Data Service.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Outional Features and Functions (Cont'd)

(3) Central Office Multiplexing (Cont'd)

(h) DSO to Subrate

An arrangement that converts a 64.0 kbps channel to subspeeds of up to twenty 2.4 kbps, ten 4.8 kbps, or five 9.6 kbps channels using digital time division multiplexing. This arrangement can be provided with the Secondary Channel Capability feature of Digital Data Service.

(4) Clear Channel Capability

Clear Channel Capability is an optional feature that provides the customer with an increase in useable bandwidth from 1.344 Mbps to 1.536 Mbps of an unconstrained data stream across the network. Clear Channel Capability is provided only on 1.544 Mbps High Capacity service and requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Subsitiution (B8ZS) line code format as described in Technical Reference TR-TSY-000342. Customer equipment must be compatible with this method of providing the unconstrained signal.

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(5) Enhanced Access Diversity (EAD)

EAD is an optional feature in which Special Access High Capacity Service (MercNET 1.5 and MercNET *45)* is provided on a transmission facility alternately routed from the primary (Standard) transmission facility path.

This feature utilizes existing physically diverse interoffice facilities, excluding equipment and facilities located in a rire center, to provide diversity between serving vire centers only.

EAD may be provisioned on Telephone Company facilities where capability and capacity exist. Otherwise, the customer may order facilities under Special Construction.

When placing orders for EAD, the customer must identify the services that rill be diverse, and any facilities placed under Special Construction that rill be used. The customer must also supply all appropriate facility assignments and other information to permit the Telephone Company to provide and maintain EAD service.

When High Capacity MercNET *45* service is multiplexed, rates and charges for each EAD service connecting to the multiplexer rill apply. Applicable rates and charges for the MercNET *45* service rill also apply if identified as an EAD service. Customers leasing Telephone Company-provided multiplexers rill provide and identify Connecting Facility Assignments of diverse services to the multiplexer. (N)

(N)

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Deborah A Disch

President, Cincinnati, Ohio

Vice President
Integrated Corporate Planning for

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package HC-						
	0	1	1C	2	3	4	
Central Office Multiplexing:							
DS4 to DS1						X	
DS3 to DS1					X		
DS2 to DS1				X			
DS1C to DS1			X				
DS1 to Voice		X					
DS1 to DSO		X					
DSO to Subrate*	X						
Clear Channel Capability		X					
Enhanced Access Diversity		X			X		(N)

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* Available only on a channel of a 1.544 Mbps facility to a Telephone Company hub.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.10 Customer Network Reconfiguration Service (CNRS)* (C)

(A) Basic Service Description

CNRS is an optional service for use with 1.544 Mbps (DS1) High Capacity Service and 9.6. 19.2. 56 and 64 kbps (C) Digital Data Services and Voice Grade Service that enables a customer to monitor and reconfigure. in near real-time, their Special Access Service network without the intervention of the Telephone Company. The monitoring and reconfiguration functions are performed by a compatible customer-provided personal computer (PC) or other terminal device which is connected to a CNRS network controller, located in a Telephone Company CNRS hub. The PC or terminal device is connected to the CNRS network controller over an appropriate Special Access Service dedicated line or a local telephone line with a seven digit telephone number. The Telephone Company's CNRS hubs are designated in the National Exchange Carrier Association, Inc. Tariff F.C.C. No. 4.

CNRS allows customers to perform network monitoring, circuit provisioning, bandwidth re-allocation. and circuit re-routing at the DSO level within the CNRS hub equipment. Also, circuit rerouting may be performed at the DS1 level. Upon request, the Telephone Company will perform CNRS changes for the customer, subject to the charges specified in 7.5.9 following. Services that are cross-connected by CNRS must have identical technical characteristics to ensure compatibility and proper operation, e.g., Data to Data, Voice to Voice. CNRS specifications are delineated in Technical Reference TR-TSY000366.

CNRS provides the following functions:
Network Monitoring and Surveillance

With compatible CPE equipment and software, users can Visually monitor the outgoing status of their network on their terminal.

*CNRS is limited to existing subscribers of CNRS Service as of May 15, 1997 (C)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.10 Customer Network Reconfiauration Service (CNRS) (Cont'd)

(A) Basic Service Description (Cont'd)

Circuit Provisioning

Customers can activate or deactivate any of the circuits defined in the database down to the DSO level.

Manual and Automatic Route Selection

Customers can select alternate routes on demand, or on a pre-scheduled basis.

Bandwidth Re-allocation

Customers can shift unused bandwidth capacity to locations where it can be better utilized (e.g., temporary support for a videoconference).

Partitioning

For example, customers may choose to permit only a portion of their network to be accessible by CNRS or by certain personnel for security purposes.

Command Profiles Feature

Customers can set up files with pre-set lists of commands.

Reports and Alarms

Customers can obtain management reports regarding their network configuration, status, and various alarm reports.

Security

CNRS provides extensive multi-level security to deny unauthorized users access to a customer's CNRS network.

7. Special Access Service (Cont'd)
7.2 Service Descriptions (Cont'd)

7.2.11 Reserved (T)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service Point-to-Point Service (N)

(A) Basic Channel Description

(1) General

Point-to-Point OC-3, OC-12, and OC-48 channels provide high speed synchronous optical fiberbased full duplex data transmission capabilities. These services provide optical data transmission with the following characteristics:

- OC-3 Service provides channels operating at the terminating bit rate of 155.52 Mbps; and,

- OC-12 Service provides channels operating at the terminating bit rate of 622.08 Mbps.

- OC-48 Service provides channels operating at the terminating bit rate of 2488.32 Mbps.

OC-3, OC-12, and OC-48 channels may be used to connect:

- one customer-designated premise to another customer designated premise, either with or without the add/drop multiplexing capability at wire center locations between the two premises.

- a customer-designated premise to a Telephone Company location where add/drop multiplexing, add/drop functions and/or cross-connections are performed.

Optical Transmission paths for OC-3, OC-12, and OC-48 Services are differentiated by bit rate and the quality of transmission as delineated by the Optical Interface specified in established standard and technical publications.

OC-3, OC-12, and OC-48 Service may be connected by (1) using the appropriate OC-3, OC-12 or OC-48 add/drop multiplexer (mux) along with the add/drop function to a DS1 and/or DS3 at suitably equipped wire centers, or (2), by using the full bandwidth premise to premise. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to Point Service (Cont'd) (N)

(A) Basic Channel Description (Cont'd)

(1) General (Cont'd)

OC-3 Service. OC-12 Service, and OC-48 Service based on customer requirements can be configured in any of the following ways:

OC-3 - three STS-1 (Synchronous Transport Signals) channels which each contain:

- one DS3 that is STS-1 mapped:
- up to 28 DS1s that are VT-mapped;
- an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the CBT network:
- a single concatenated STS-3C channel.

OC-12 - twelve STS-1 channels which each contain:

- one DS3 that is STS-1 mapped;
- up to 28 DSls that are VT-mapped;
- an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the CBT network:
- four concatenated STS-3C channels:
- from one to three STS-3C channels mixed with from three to nine STS-1 channels subject to utilization of the total OC-12 capacity:
- a single concatenated STS-12C channel. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to Point Service (Cont'd) (N)

(A) Basic Channel Description (Cont'd)

(1) General (Cont'd)

OC-48 - forty-eight STS-1 channels which each contain:

- one DS3 that is STS-1 mapped;
- up to 28 DS1s that are VT-mapped;
- an STS-1 channel without constraint to payload mapping when the STS-1 channel does not terminate via an add/drop function to DS1 or DS3 services within the CBT network;

- sixteen concatenated STS-3C channels

- from one to fifteen concatenated STS-3C channels, mixed with from three to forty-five STS-1 channels subject to utilization of the total OC-48 capacity:

- four concatenated STS-12C channels;

- from one to three concatenated STS-12C channels. mixed with from twelve to thirty-six STS-1 channels subject to utilization of the total OC-48 capacity;

- from one to three concatenated STS-12C channels, mixed with from four to twelve concatenated STS-3C channels, also mixed with from three to thirty-three STS-1 channels subject to utilization of the total OC-48 capacity.

- from one to three concatenated STS-12C channels, mixed with from one to eleven concatenated STS-3C channels. also mixed with from three to thirty-three STS-1 channels, subject to utilization of the total OC-48 capacity. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to Point Service (Cont'd) (N)

(A) Basic Channel Description (Cont'd)

(1) General (Cont'd)

The customer is responsible via the ordering process to identify what STS signal configuration is to be contained in each OC-3, OC-12 and OC-48 service connection and each STS-1, STS-3, and/or STS-12 payload content. This information is needed for routing and connection purposes in the network

(B) Channel Configuration

(1) OC-3, OC-12 and OC-48 Channel Terminations

OC-3, OC-12 and OC-48 Channels consist of Channel Terminations (CTs), interoffice mileage and optional features and functions

OC-3, OC-12 and OC-48 Channel Terminations provide optical interconnection between the Telephone Company Serving Wire Center (SWC) and the customer premise. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to Point Service (Cont'd) (N)

(B) Channel Configuration (Cont'd)

The following types of CTs are available

Terminating Bit Rate	Loop Format*	Data Transmission Format
155.52 2	fiber	Synchronous
622.08 2	fiber	Synchronous
2488.322	fiber	Synchronous

When OC-3 Service, OC-12 Service and OC-48 Service is provided, the customer is responsible for providing Optical Line Termination (OLT) at the customer's premise. The OLT supplied at the customer premise must be compatible with the OLT used by the Telephone Company in the Serving Wire Center. The Telephone Company wi11 work cooperatively with the customer to select compatible OLT which conform to the requirements set forth in established standard and technical publications.

(1) OC-3, OC-12 and OC-48 Channel Terminations

All CTs comprising a channel must have the same terminating bit rate unless multiplexing is performed at a Telephone Company Hub location.

(2) Channel Mileage

Channel Mileage facilities, comprised of Fixed and Per Mile as described in Section 7.1.2(B) preceding, provide the transmission paths between Serving Wire Centers associated with two customer-designated premises or between a Serving Wire Center associated with a customer premise and a Telephone Company Hub location. Three Channel Mileage types are available - OC-3 which supports bit rate of 155.52, OC-12 transport at the 622.08 bit rate and OC-48 transport at a bit rate of 2488.32. (N)

*Unidirectional Path Switched Rings

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to Point Service (Cont'd)

(B) Channel Configuration (Cont'd)

(2) Channel Mileage (Cont'd)

OC-3 CTs are interconnected to OC-3 transport.
OC-12 CTs are interconnected to OC-12transport.
OC-48 CTs are interconnected to OC-48 transport.

In addition, Channel Mileage can be connected between wire centers with Add/Drop multiplexing at a lower OC-N speed than the CT. if the transport is between a lower speed Add/Drop Function and:

- another lower speed Add/Drop Function;
- another lower speed Channel Ter-mination-,
- a lower speed Dedicated Ring Port;
- a lower speed Cross-Connect.

All of the above terminations must be the same speed as the Channel Mileage.

(3) Optional Features and Functions

The following optional features and functions are available: Add/Drop Multiplexing, Add/ Drop Function. OC-3. OC-12 and OC-48 Cross-Connection, 1+1 Protection with Route Survivability, 1+1 Protection with Central Office Survivability, and OC-48 Regenerator.

(a) OC-3, OC-12 and OC-48 Add/Drop Multiplexing

An arrangement that allows an OC-3. OC-12 or OC-48 channel operating at a terminating speed of 155.52 Mbps, 622.08 Mbps and 2488.32 Mbps respectively, to add/drop a lower speed channel by using this feature along with the add/drop function as stated in (b) following.

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to Point Service (Cont'd) (N)

(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

(a) OC-3, OC-12 and OC-48 Add/Drop) Multiplexing (Cont'd)

OC-3 add/drop multiplexing at a Telephone Company wire center will provide the capability to support the full add/drop function capacity of OC-3 Service bandwidth with up to three DS3 add/drop functions or equivalently up to three groups of 28 DS1 add/drop functions.

OC-12 add/drop multiplexing at a Telephone Company wire center will provide the capability to support the full add/drop function capacity of OC-12 service bandwidth with up to four OC-3 add/drop functions or up to 12 DS3 add/drop functions or equivalent combinations of OC-3 and DS3 add/drop functions.

OC-48 add/drop multiplexing at a Telephone Company wire center will provide the capability to support one quarter of the add/drop function capacity of OC-48 service bandwidth. Up to four OC-48 add/drop multiplexing options may be provided with each supporting one OC-12 add/drop function, or up to four OC-3 add/drop functions or up to 12 DS3 add/drop functions or equivalent combination of OC-3 and DS3 add/drop functions. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to Point Service (Cont'd) (N)

(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

(b) Add/Drop Function

The OC-3 Service, OC-12 Service and OC-48 Service are able to add or drop lower level signals as shown in the matrix following. The add/drop function is offered at a circuit level. For example, if a customer wants to drop one DS3 signal from an OC-12 service, they would pay one add/drop charge for the DS3, plus the OC-12 add/drop multiplexing charge.

The OC-3, OC-12 and OC-48 Service is only able to add/or drop the services that have been identified by payload content (mapping) within the bandwidth. DS1 mapped STS-1 signals are only able to connect to an DS1, and DS3 mapped STS-1 signals are only able to connect to a DS3. If a change is required, it may be accomplished by the customer's CPE or through the current asynchronous environment for multiplexing of DS3 and DS1 services stated in Section 7.2.9.

The options in (a) and (b) above cannot be used with OC-3 or OC-12 Service configured by the customer to contain a single nonchannelized (concatenated) STS-3C or STS-12C signal, respectively. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to Point Service (Cont'd) (N)

(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

ADD/DROP Function

	DS1	DS3	OC3	OC12
OC-48	No*	Yes	Yes	Yes
OC-12	NO*	Yes	Yes	N/A
OC-3	Yes	Yes	N/A	N/A

* to add/drop a DS1 from an OC-12 and/or OC-48, an inter-mediate step at either OC-3 or DS3 must be taken.

(c) OC-3. OC-12 and OC-48 Cross-Connection

This is an arrangement to cross-connect OC-3 Service, OC-12 Service or OC-48 Service to another service or to an add/drop function of the same speed at a wire center for the same or for a different customer on a per circuit basis. The customer must purchase service to the wire center from his designated premise. One charge applies per service cross-connected (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to Point Service (Cont'd) (N)

(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

(d) 1+1 Protection with Route Survivability

This option will provide 1+1 protection and offer additional protection from fiber cable cuts by routing the working fiber pair via the primary route and the protect fiber pair via a physically diverse alternate route. The protect fiber will be charged on a distance-sensitive basis, based on quarter route miles, from the customer premise to the serving wire center.

This option will also provide 50 millisecond protection switching to assure 100 percent availability of the service. Any service interruption will result in a credit equal to one month's bill for the circuit involved. If the interruption occurs on a Channel Termination without this option, normal terms and conditions for out-of-service credits as stated in 2.4.4 preceding will apply. An interruption period will start when an inoperative service is reported to the Telephone Company and end when the service is operative. In any month, as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element. All other terms and conditions for Credit Allowances as stated in 2.4.4 preceding, will apply.

Installation of the 1+1 Protection with Route Survivability option will not begin until the customer has accepted the proposed routing by the Telephone Company. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.11 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to-Point Service (Cont'd)

(B) Channel Configuration (Cont'd) (N)

(3) Optional Features and Functions (Cont'd)

(e) 1+1 Protection with Central Office Survivability for OC-3, OC-12 and OC-48 (Cont'd)

Installation of the 1+1 Protection with Central Office Survivability option will not begin until the customer has accepted the proposed routing by the Telephone Company.

If the customer wants to use this optional feature as a ring extension with OC-12 or OC-48 Dedicated Ring Service, then both the customer's Serving Wire Center and alternate wire center must have Nodes located on the ring. The Telephone Company will work cooperatively with the customer to determine the appropriate alternate wire center to be used for the Dedicated Ring situation. Channel Mileage will not apply to this option when used with a ring extension. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to-Point Service (Cont'd) (N)

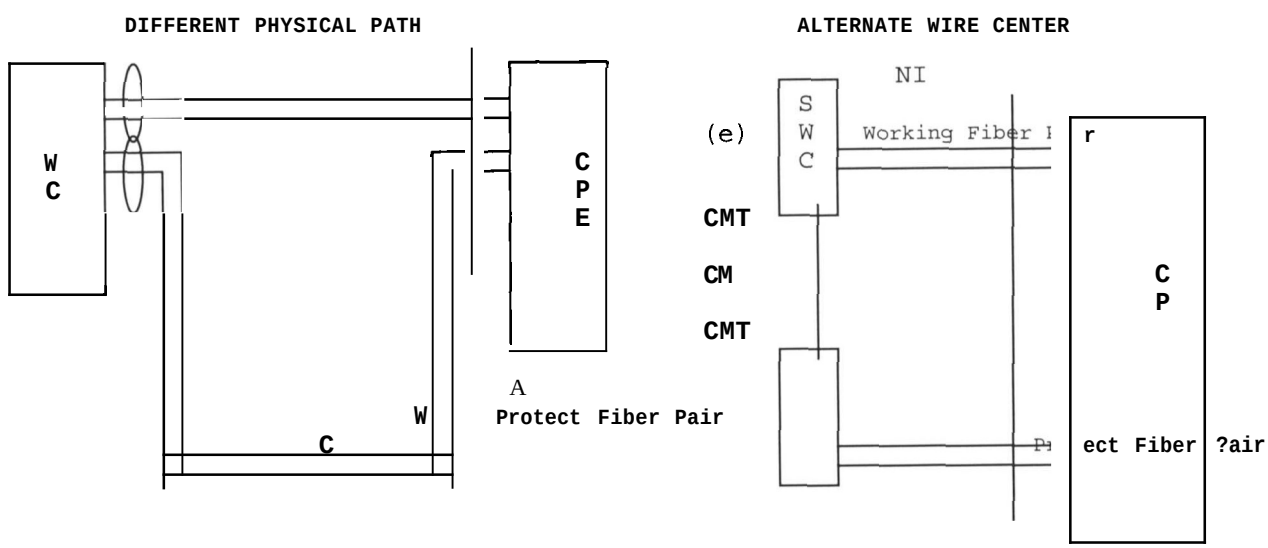
(B) Channel Configuration (Cont'd)

(3) Optional Features and Functions (Cont'd)

(f) OC-48 Regenerator

Regenerators provide essential detection and retransmission of SONET Optical signals between customer premises. Regenerators will only be provided as required by the Telephone Company actual fiber facility distances between customer-designated premise and/or central office locations exceed design limits (typically 18 to 25 miles). Regenerators will be located exclusively in Telephone Company central offices.

The following diagrams provide an example of (d) and (e) above:



*CM = Channel Mileage
*CMT = Channel Mileage Terminations (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service-Dedicated Ring (N)

(A) Basic Service Description

(1) General

OC-3. OC-12, and OC-48 Dedicated Ring Service operates at the same speeds as Point-to-point Services, however, the Dedicated Ring Service provides a customer a dedicated custom network. The network is in a ring architecture designed to provide increased reliability and functionality connecting multiple customerdesignated locations and specified Telephone Company Central Offices (COs) via self-healing network designs. Dedicated Ring Service will provide 50 millisecond protection switching to assure 100 percent availability of the services on the ring. Dedicated Ring Service is provided where appropriate SONET facilities are available. Where facilities are not available, Special Construction may apply.

Dedicated Ring Service is an alternative to OC-3. OC-12 and OC-48 point-to-point service between multiple customer locations. Rate elements include nodes, ports, mileage between nodes, regenerators, Optical to Electrical DS1 add drop capability and Optical OC-48 add/drop capability. Rates are specified in 7.5.12 following.

Existing customers with Point-to-point OC-3. OC-12 and OC-48 may upgrade to Dedicated Ring Service without termination liability.

A service interruption will result in a credit equal to one month's bill for the individual port-to-port connection involved. An interruption of service will start when an inoperative service is reported to the Telephone Company and end when the service is operative. In any month. as a result of an interruption, the total credit per rate element of the interrupted service may not exceed 100 percent of the monthly charge for that particular rate element . (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd) (N)

(B) Dedicated Ring Configuration

(1) Nodes

The ring will provide connectivity to multiple customer-designated locations (nodes). However, a ring must have a minimum of three nodes. At least one node must be a Telephone Company CO and one must be a customer premise. A maximum of 16 nodes, including regenerators, will be allowed per ring.

The Telephone Company reserves the right to determine the order of the nodes on the ring.

When a customer premise node is located in the same building as a CO node, there will be no diversity between the two nodes.

The customer will be billed time and material for any additional charges incurred by the Telephone Company in locating Company equipment at the customer premise.

(2) OC-48 Add/Drop Capability

This provides the capability to add/drop lower speed channels from an OC-48 Dedicated Ring node location via OC-12, OC-3, or DS3 ports. OC-48 Add/Drop Capability at an OC-48 Dedicated Ring Service node location will support one quarter of the port capability of OC-48 ring bandwidth. Up to four OC-48 Add/Drop Capability options may be provided at a node with each option supporting one OC-12 port, up to four OC-3 ports, up to twelve DS3 ports, or an equivalent combination of OC-3 and DS3 ports. (N)

7. Special Access Service (Cont'd)
7.2 Service Descriptions (Cont'd)

7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd) (N)

(B) Dedicated Ring Configuration (Cont'd)

(3) Ports

The ring capacity will be either OC-3, OC-12 or 48-OC Lower speed channels are accessible at nodes via port terminations.

Accepted interfaces are as follows:

OC-3 Node		OC-12 Node	OC-48 Node
DS1 Ports	X (Max. 84/Node)	X*(Max. 84/OC-3 Port)	X* (Max. 84/OC-3 Port)
DS3 Ports	X (Max.3/Node)	X (Max. 12/Node)	X (Max. 48/Node)
**OC-3 Ports	N/A	X (Max. 4/Node)	X (Max. 16/Node)
OC-12 Ports	N/A	N/A	X (Max. 4/Node)

OC-3 Point-to-Point service may connect to an OC-3 port of an OC-12 or OC-48 ring or OC-12 Point-to-Point service may connect to an OC-12 port of an OC-48 ring located in a Company CO.

As described in Section 7.2.12A for OC-3 Service, an OC-3 port will permit the connection of STS-1 channels to other STS-1 channels across the OC-12 or OC-48 Dedicated Ring Service subject to the overall ring capacity limits described in (6) following. Also, an STS-1 channel with DS1 payload mapping accessing an OC-12 Dedicated Ring using an OC-3 port may be connected to the Optical to Electrical DS1 add/drop capability for the purpose of connecting up to 28 DS1 ports. An STS-1 channel with DS3 payload mapping accessing the OC-12 or OC-48 Dedicated Ring using an OC-3 port may individually connect to a DS3 port.

DS1 ports, DS3 ports and STS-1 channels within OC-3 ports may not connect to any other ports within the same node. All other port-to-port connections are allowable except for DS3 port to DS1 port connections. If a DS3 to DS1 connection is required, it may be accomplished by the customer's CPE or through the current multiplexing environment of DS3 and DS1 Services described in Section 7.2.9.

* Optical to Electrical DS1 add/drop capability as shown in 7.2.13(B)(4) is needed along with an OC-3 Port.
** Number of interfaces on Nodes equipped for multiplexing may very. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd) (N)

(B) Dedicated Ring Configuration (Cont'd)

(4) Mileage

Mileage is the total airline distance between the serving wire center of each node involved on the ring. A one mile minimum will be billed between nodes.

In addition, interoffice transport may be connected between wire centers at a lower OC-N speed than the Dedicated Ring, if the transport is between a dedicated ring port and

- a lower speed Add/Drop Function;
- a lower speed Channel Termination;
- another lower speed Dedicated Ring Port:
- a lower speed Cross-Connect;

All of the above terminations must be the same speed as the transport.

(5) Optical to Electrical DS1 Add/Drop Capability

This option allows an electrical DS1 to be derived from an optical OC-12 or OC-48 ring by using this capability to add/drop the electrical DS1 from an OC-3 port. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd) (N)

7.2.12 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd)

(B) Dedicated Ring Configuration (Cont'd)

(6) Dedicated Ring Regenerator

Regenerators provide essential detection and retransmission of SONET Optical 155.52 Mbps, 622.08 Mbps and 2488.32 Mbps signals between nodes. Regenerators will only be provided as equired by the Telephone Company when actual fiber facility distances between customer-designated nodes exceed inter-nodal design limits (typically 18 to 25 miles). Regenerators will be located exclusively in Telephone Company COs and do not allow ports to access customer service connections.

(7) Dedicated Ring Connection capacity

Maximum transport capacity of OC-3. OC-12 and OC-48 Dedicated Ring Service is characterized by the total quantity of individual port-to-port connections allowed between all nodes on the ring. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd) (N)

(B) Dedicated Ring Configuration (Cont'd)

(7) Dedicated Ring Connection Capacity (Cont'd)

For OC-3 Dedicated Ring Service, the maximum ring capacity will be equal to one of the following combinations:

DS3 Port to DS3 Port Connections		DS1 Port to DS1 Port Connections
Three	and	None
Two	and	Up to 28
One	and	Up to 56
None	and	Up to 84

(N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd) (N)

(B) Dedicated Ring Configuration (Cont'd)

(7) Dedicated Ring Connection Capacity (Cont'd)

For OC-12 Dedicated Ring Service. the maximum ring capacity will be equal to one of the following combinations:

~~DS3~~		~~DS1 Port~~
Port Connections		Port Connections
Twelve	and	None
Eleven	and	One group of 28
Ten	and	Two Groups of 28(56)
Nine	and	Three groups of 28(84)
Eight	and	Four Groups of 28(112)
Seven	and	Five Groups of 28(140)

DS3

~~Six Groups of 28(156)~~		
Five	and	Seven Groups of 28(196)
Four	and	Eight Groups of 28(224)
Three	and	Nine Groups of 28(252)
Two	and	Ten Groups of 28(280)
One	and	Eleven Groups of 28(306)
None	and	Twelve Groups of 28(336)

For OC-12 Dedicated Ring Service, individual DS1 port-to-DS1 port connection capacities may be distributed only in incremental groups of 28 between any two nodes on the ring. Individual DS3 port-to-DS3 port connection capacities may be incrementally distributed between nodes on the ring in any manner.

OC-12 Dedicated Ring Service will also provide capability for node-to-r)ode connection of STS-1 or STS-3C channels using OC-3 ports on the OC-12 ring. Each STS-1 to STS-1 channel connection will reduce the remaining ring capacity by the equivalent of one DS3 port-to-DS3 port connection or 28 DS1 port-to-DS1 port connections. Each STS-3C to STS-3C channel connection requested by the customer wi11 reduce the remaining ring capacity by the equivalent of three DS3 port-to-DS3 port connections or 84 DS1 port-to-port connections. (

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd) (N)

(B) Dedicated Ring Configuration (Cont'd)

(7) Dedicated Ring Connection Capacity (Cont'd)

For OC-48 Dedicated Ring Service, the maximum ring capacity will be equal to one of the following combinations:

DS3 Port to DS3 Port Connections		DS1 Port to DS1 Port Connections
Forty-eight	and	None
Forty-Seven	and	One Group of 28
Forty-six	and	Two Groups of 28(56)
Forty-five	and	Three Groups of 28(84)
Forty-four	and	Four Groups of 28(112)
Forty-three	and	Five Groups of 28(140)
Forty-two	and	Six Groups of 28(168)

DS3 Port to Port Connections		DS1 Port to DS1 Port Conncetions
Forty-one	and	Seven Groups of 28(196)
Forty	and	Eight Groups of 28(224)
Thirty-	nine	and Nine Gropus of 28(252)
Thirty-eiqht	and	Ten Groups Of 28(280)
Thirty-seven	and	Eleven Groups of 28(308)
Thirty-six	and	Twelve groups of 28(336)

Continuing down the scale to:
None and Forty-eight Groups of 28 (1344)

(N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd) (N)

(B) Dedicated Ring Configuration (Cont'd)

(7) Dedicated Ring Connection Capacity (Cont'd)

For OC-48 Dedicated Ring Service, individual DS1 port-to-DS1 port connection capacities may be distributed only in incremental groups of 28 between any two nodes on the ring. Individual DS3 port-to-DS3 port connection capacities may be incrementally distributed between nodes on the ring in any manner.

OC-48 Dedicated Ring Service will also provide capability for node-to-node connection of STS-1 or STS-3C channels using OC-3 or OC-12 ports on the OC-48 ring. Each STS-1 to STS-1 channel connection or STS-1 channel to DS3 port connection requested by the customer will reduce the remaining ring capacity by the equivalent of one DS3 port-to-port connection or 28 DS1 port-to-port connections. Each STS-3C to STS-3C channel connection requested by the customer wi11 reduce the remaining ring capacity by the equivalent of three DS3 port-to-DS3 port connections or 84 DS1 port-to-port connections.

OC-48 Dedicated Ring Service will also provide capability for node-to-node connections of STS-12C channels using OC-12 ports on the OC-48 ring. Each STS-12C to STS-12C channel onnection requested by the customer will reduce the remaining ring capacity by the equivalent of twelve DS3 port-to-DS3 port connections or 336 DS1-to-DS1 port connections. (N)

7. Special Access Service (Cont'd)

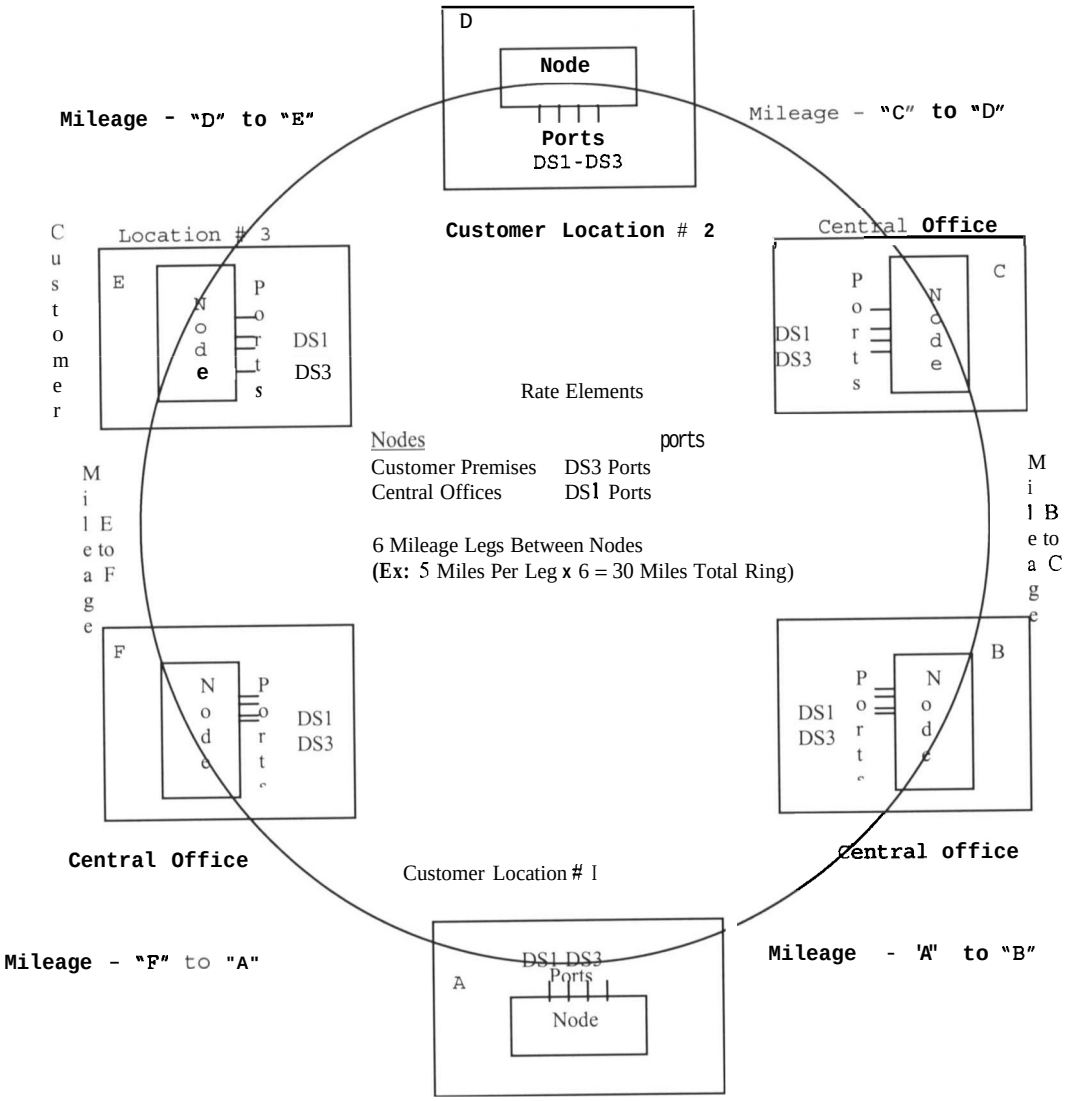
7.2 Service Descriptions (Cont'd)

7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd) (N)

(B) Dedicated Ring Configuration (Cont'd)

(8) Diagram OC-3, OC-12 and OC-48 Ring

CBT OC-3 Dedicated Ring Service



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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

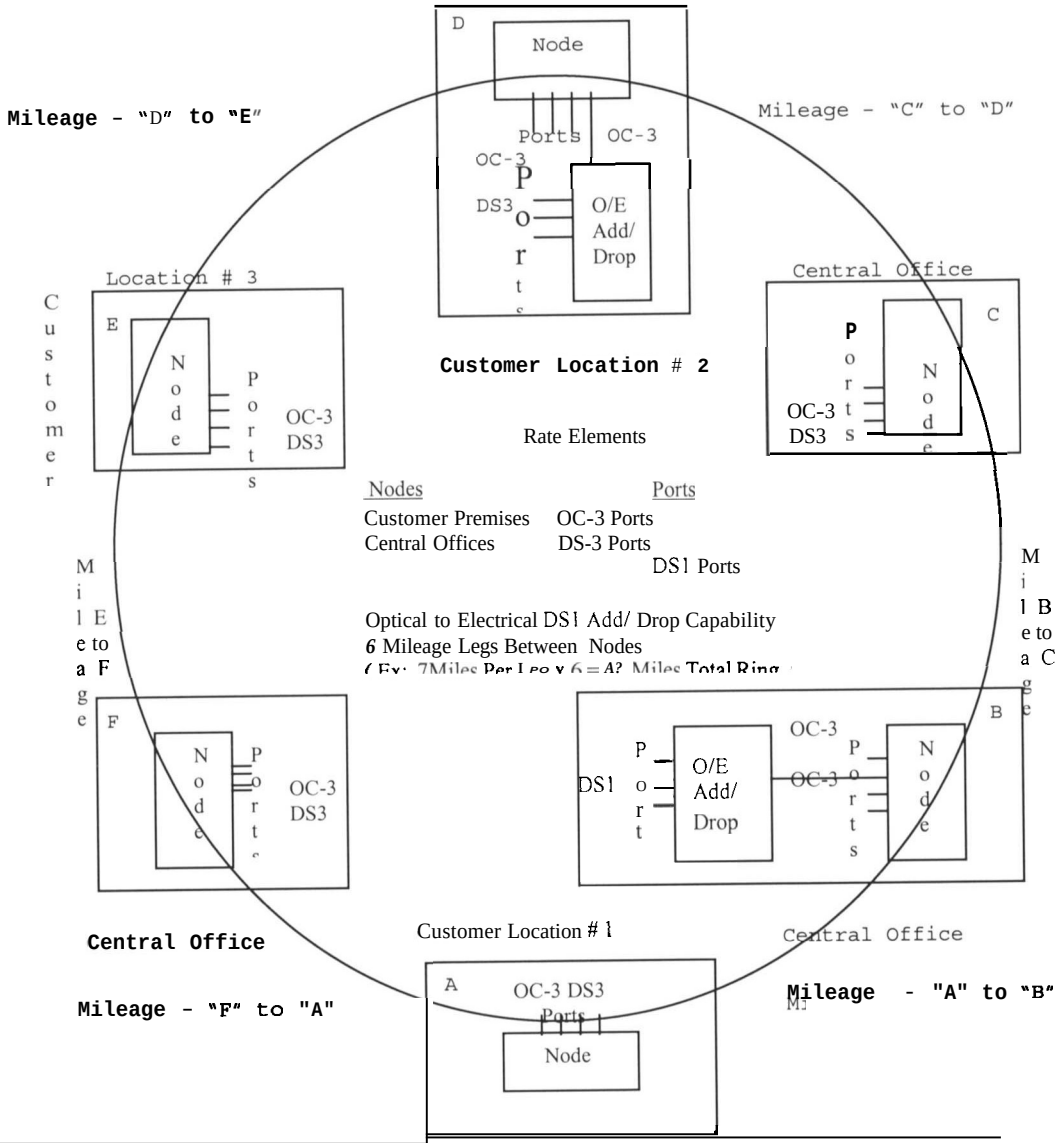
7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd)

(B) Dedicated Ring Configuration (Cont'd)

(8) Diagram OC-3. OC-12 and OC-48 Ring (Cont'd)

(N)

OC-12 Dedicated Ring Service



(N)

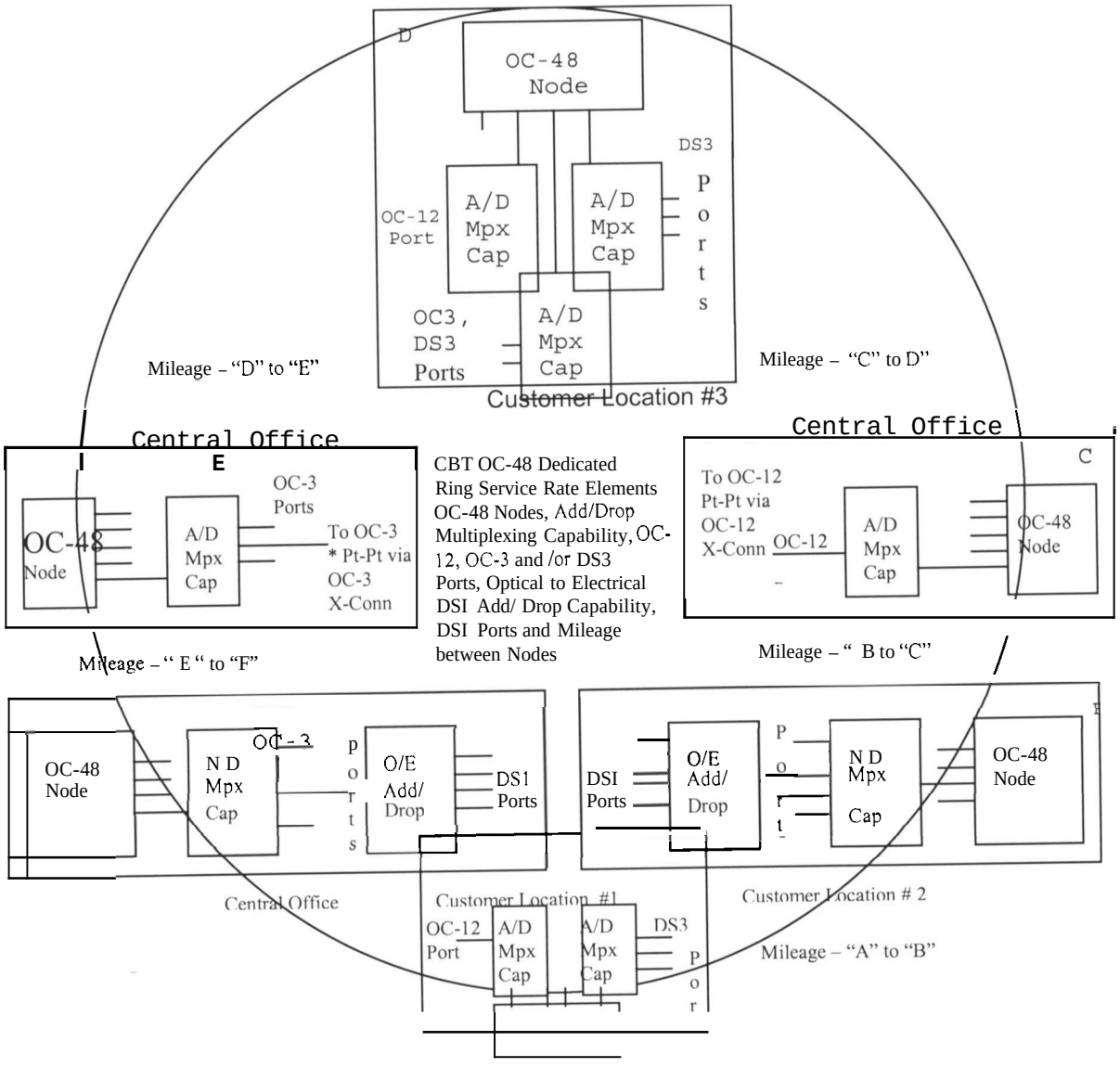
7. Special Access Service (Cont'd)
7.2 Service Descriptions (Cont'd)

7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd)

(B) Dedicated Ring Configuration (Cont'd)

(8) Diagram OC-3, OC-12 and OC-48 Ring (Cont'd)

CBT OC-48 Dedicated Ring Service



7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd) (N)

(B) Dedicated Ring Configuration (Cont'd)

(9) Optional Payment Period

Dedicated Rings are available for either 36 month or 60 month periods. Monthly recurring charges apply for the nodes, ports and mileage between nodes. If a node is added after the initial installation of the dedicated ring, the new node will carry the same OPP rate as the initial ring and be conterminous with that OPP. However, if a node is added during the last 12 months or less of an OPP, the customer will be billed the initial OPP ring rate for a minimum period of 12 months.

Logical changes in the ring (change in mapping content) are not considered to be a dedicated ring termination, however, any physical change would be considered a termination and all appropriate termination liability would apply as specified in paragraph 7.4.9 following. Also, all other rate regulations pertaining to OPP would apply. See Section 7.4.9 following. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Shared SONET Service (N)

A. Basic Service Description

Shared SONET service is a shared ring service which provides high performance and reliability parameters with the level of survivability designed to limit a single event from interrupting service. It provides route, central office equipment, and signal payload protection for point-to-point DS1 and DS3 channels provisioned on the shared ring. No additional optional features are required for this level of protection. It provides flat rate transport across the network of DS1, DS3, OC-3 and OC-12 (VT1.5 and STS-1) channels. Shared SONET utilizes SONET facilities and is available only in buildings and wire centers (Shared SONET Network) where the Telephone Company has established shared rings.

For locations where Shared SONET is not yet available Special Construction charges may apply. Expansion of service areas by means of Special Construction will only be allowed in designated areas consistent with the Telephone Company's construction program. Shared SONET service areas are designated in National Exchange Carrier Association Tariff F.C.C. No. 4.

Shared SONET service must be specifically ordered even if a customer premises or serving wire center is located in the designated Shared SONET serving area.

Shared SONET will provide 50 millisecond protection switching to assure 100 percent availability or the end-to-end services within the network. When a customer's end-to-end service utilizes both the Shared SONET network and non Shared SONET network, the non-Shared SONET network portion will have the appropriate service guarantees as specified in Section 2.4.4 preceding.

Shared SONET Service is excluded from any application of Shared

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Shared SONET Service (Cont'd) (N)

B. Channel Configuration

(1) Network Access Connection (NAC)

The Network Access Connection provides SONET based access to the Shared SONFR shared transport network. NACs are available with electrical 1.544 Mbps (DS1) and 44.736 Mbps (DS3) interfaces only. The NAC is applicable when the customer's premises is located in a building on the Shared SONET network.

(2) Off-Network Access Connection (ONAC)

The Off-Network Access Connection provides a SONET based connection to the Shared SONET transport network at a company-designated Shared SONET central office. ONACs are available with electrical 1.544 Mbps (DS1), 44.736 Mbps (DS3) as well as protected optical OC-3 and OC-12 interfaces. The ONAC is applicable when the customer's premises is not located in @ building on the Shared SONET network.

In addition to the ONAC charge, the customer is responsible for the appropriate Local Distribution Channel Charge (and Channel Mileage and Channel Mileage Termination charges, if appropriate) from the customer premises to the ONAC location on the network.

(3) DS3 Payload Multiplexing Function (PMF)

DS3 Payload Multiplexing Function provides the capability to multiplex up to 28 DS1 channels or 28 VT 1.5 channels with DS1 payload mapping to or from a specific (I)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Shared SONET Service (Cont'd) (N)

B. Channel Configuration (Cont'd)

(3) (Cont'd)

DS3 channel or an STS-1 channel with DS3 payload mapping at a location determined by the Telephone Company within the Shared SONET Network. Customers can continue to maintain existing DS1 to DS3 traffic relationships while using Shared SONET access connections and banded transport. DS1 channels from across the serving area can be assigned to a specific DS3 channel for transport to a customer premises and/or a central office location. This option is only available when a DS1/VT1.5 is mapped or delivered to a DS3/STS-1 channel.

(4) Service Area Transport (SAT)

Service Area Transport provides SONET transport across the Shared SONET network. The transport is divided into three mileage bands: a) up to 3 miles, b) greater than 3 miles and up to 10 miles, and c) greater than 10 miles. Transport charges are based on the airline miles between a) the serving wire centers of two NACS. the serving wire centers of a NAC and an ONAC location or c) serving wire centers of two ONAC locations. SAT is available as DS1/VT1.5 point to point, DS3/STS-1 point to point or DS3, OC-3 or OC-12 channelized SAT provided on a per DS1/VT1.5 basis. (N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

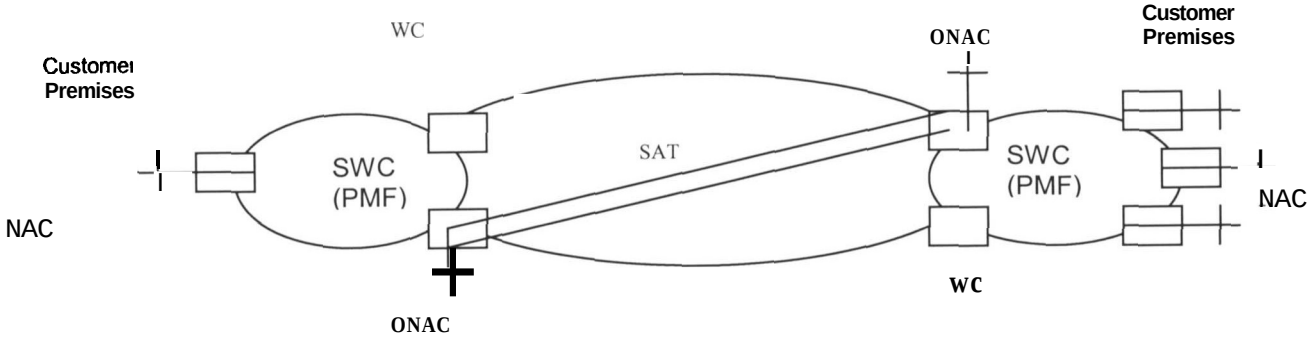
7.2.14 Shared SONET Service (Cont'd) (N)

B. Channel Configuration (Cont'd)

(4) (Cont'd)

The following is an example of the Shared SONET rate elements:

Shared SONET Transport Services



NAC – DS1 or DS3 Network Access Connection
ONAC – DS1, DS3, or OC-12 Off- Network Access Connection
SAT – DS1/VT1.5 or DS3/STS-1 Service Area Transport
PMF – DS3 Payload Multiplexing Function (if applicable)
SWC – Serving Wire Center
WC --Wire Center

(N)

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.14 Shared SONET Service (Cont'd) (N)

B. Channel Configuration (Cont'd)

(5) Technical Specifications Packages

The technical specifications for Shared SONET Service are described in established standard and technical publications.

C. Optional Payment Plan (OPP)

Shared SONET Service is available for 36 or 60 month periods as described in section 7.4.9 following. Monthly recurring charges apply for NAC. ONAC. SAT and PMF. if applicable. (N)

7. Special Access Service (Cont'd)

7.3 Reserved

7.4 Rate Regulations

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

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 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 flat recurring rates 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.

For Channel Terminations associated with MercNET 45 High Capacity Service there are higher monthly rates for the first channel termination and lower monthly rates for the second, third and above channel terminations provided when the following conditions are met:

- The first, second, and third and above service(s) are billed to the same customer.
- The first, second, and third and above service(s) must be provided to the same customer premises.
- Each subsequent order for a channel termination is eligible for the appropriate lower monthly rate.

For Channel Terminations associated with MercNET 45 High Capacity Service - 12 Pack Arrangement the following conditions must be met: (N)

- The 12 pack arrangement must be billed to the same customer.
- The 12 pack arrangement must be provided to the same premises. (N)

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(B) Daily Rates

Daily rates are flat recurring rates that apply to each 24 hour period or fraction thereof that a Program Audio Special Access Service is provided for part-time or occasional use. For purposes of applying daily rates, the 24 hour period is not limited to a calendar day.

The application of daily rates for Program Audio service for consecutive 24 hour periods during a consecutive 30 day period is as follows. Daily rates will be topped at an amount equal to the monthly rate (i.e., the charge to the customer for usage billed at daily rates will not exceed the monthly rate). For each day or partial day that the service is available for use after the daily rates have been topped, a charge equal to 1/30th of the monthly rate will apply.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service rearrangements.

(1) Installation of Service

Nonrecurring charges apply to each service installed. The nonrecurring charges for the installation of service are set forth in 7.5 following as a nonrecurring charge for the Channel Termination rate element.

(2) Installation of Optional Features and Functions

Nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service.

The optional features for which nonrecurring charges apply are:

- Voice Grade Data Capability
- Voice Grade Telephoto Capability
- Program Audio Gain Conditioning
- Program Audio Stereo
- High Capacity Clear Channel Capability
- Service to Service through Connect Arrangement - 1.544Mbps (N)

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Tvpes of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(3) Service Rearranaements

Service rearrangements are changes to existing (installed) services which do not result in either a change in the minimum period requirements as set forth in 5.2.5 (E) preceding or a change in the physical location of the point of the termination at a customer designated premises. Changes which result in the establishment of new minimum period obligations are treated as disconnects and starts.

Changes in the physical location of the point of the termination are treated as moves and are described and charged for as set forth in 7.4.5 following.

The charge to the customer for the service rearrangement is dependent on whether the change is administrative only in nature or involves actual physical change to the service.

Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the 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 of customer name, (i.e., the customer of record does not change but rather the customer of record changes its name--e.g., AT&T-Long Lines to AT&T-Communications),
- 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 jurisdiction

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Tvues of Rates and Charges (Cont'd)

(C) Nonrecurrine Charges (Cont'd)

(3) Service Rearrangements (Cont'd)

All other service rearrangements will be charged for as follows:

- If the change involves the addition of other customer designated premises to an existing multipoint service, the nonrecurring charge for the channel termination rate element will apply. The charge(s) will apply only for the location(s) that is being added.

- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.

- If the change involves changing the type of Signaling Capability on a Voice Grade service, a charge equal to the Voice Grade channel termination rate element nonrecurring charge will apply. The charge will apply per service termination affected.

- For all other changes, including the addition of an optional feature or function without a separate nonrecurring charge, a charge equal to a channel termination rate element nonrecurring charge will apply. Only one such charge will apply per channel termination, for all changes of this type made at one time.

7.4.2 Surcharge for Special Access Service

(A) General

In addition to the rates and charges described in 7.4.1 preceding, there is a monthly surcharge that applies to Special Access Service. The Special Access Surcharge compensates the Telephone Company for use of the local exchange network when Special Access Service is connected to a PBX or equivalent device which is capable of interconnecting the Special Access Service with local exchange service.

Issued: February 7, 1992 Effective: March 3, 1992

Robert E. Bigmon for President, Cincinnati, Ohio

BY: _____ PUBLIC SERVICE COMMISSION MANAGER

Vice President - Regulatory Affairs

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(A) General (Cont'd)

The Telephone Company will automatically bill the surcharge on each Special Access Service installed irrespective of whether the inter-connection capability exists in the customer's premises equipment or in a Centrex-CO type switch unless written certification is received from the customer certifying exemption status as set forth in (B) following.

(B) Special Access Surcharge Exemptions

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

(1) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA-equivalent ONALS; or

(2) an analog channel termination that is used for radio program transmission; or

(3) a termination used for TELEX service; or

(4) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines; or

7. Svecial Access Service (Cont'd)

7.4 Rate Reaulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(B) Svecial Access Surcharge Exemptions (Cont'd)

(5) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges* such as, where the Special Access Service accesses only FGA and no local exchange lines, or Special Access Service between customer points of termination or Special Access Service connecting CCSA or CCSA-type equipment (inter-machine trunks); or

(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 facility to a local exchange subscriber line. If a user's equipment is prevented from interconnecting private lines with the local exchange lines due to actual operating practicalities or limitations -- resulting from either hardware or software restrictions -- then it is not capable of leakage. Thus no surcharge should be assessed.

* Resellers of WATS Access Line Service who are exempted from paying CCL charges during the transition period of June 1, 1986 to January 1, 1987 should not be assessed any Special Access Surcharge on the closed end.

7. Special Access Service (Cont'd)

7.4 Rate Reaulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(C) Exemption Certification

(1) Special Access Services which are terminated as set forth in (B) preceding will be exempted from the Special Access Surcharge if the customer provides the Telephone Company with a written notification certifying exemption. Such notification shall be provided by the customer (1) at the time the Special Access Service is ordered or installed; *(2)* at such time as the Special Access Service is reterminated to a device not capable of interconnecting to the local exchange network, or **(3)** at such time as the Special Access Service becomes associated with a Switched Access Service that is subject to Carrier Common Line charges.

(2) If written certification is not received at the time the Special Access Service is obtained, the surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations in (D) following.

(3) The exemption certification is to be provided by the customer ordering the service. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in (B) preceding, for each termination, and the date which the exemption is effective.

(4) The customer shall also notify the Telephone Company when an exempted Special Access Service is changed or reterminated such that the exemption is no longer applicable.

(D) Crediting the Surcharge

The Telephone Company will cease billing the Special Access Surcharge when certification that the Special Access Service has become exempt from the surcharge, as set forth in (B) preceding is received. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed ninety (90) days, based on the effective date of the change specified by the customer in the letter of certification.

PUBLIC SERVICE COMMISSION OF KENTUCKY EFFECTIVE MAR 03 1992 PURSUANT TO 807 KAR 5:011, SECTION 9(1)

Issued: February 7, 1992

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Robert E. Hignon for President, Cincinnati, Ohio

BY: PUBLIC SERVICE COMMISSION MANAGER

Vice President - Regulatory Affairs

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(D) Crediting the Surcharge (Cont'd)

On June 1, 1986, the Telephone Company will begin to bill the Special Access Surcharge for WATS Access Lines presently in service. Payment of any Special Access Surcharge billed on WATS Access Lines in service as of June 1, 1986, may be deferred, without penalty, for up to ninety (90) days from the date of the first bill ordered for the Special Access Surcharge.

If appropriate exemption certification is not received by the Telephone Company by the end of the ninety (90) days deferral period, the billed Special Access Surcharges will become due. These charges, if unpaid, will be subject to a late payment charge as set forth in Section 2.4.1 (B)(2) preceding. Customers who provide exemption certification within the first ninety (90) days following the surcharge effective date, will be given credit for the surcharge to the surcharge effective date.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.2 Surcharge for Special Access Service (Cont'd)

(E) Application of Rates

(1) The monthly Special Access Surcharge applies to Special Access Services arranged, as set forth in (A) preceding, on a per voice equivalent basis as shown in the following example. The rate for the Special Access Surcharge is set forth in 7.5.11 following

Special Access Service	Voice Grade Equivalent		Surcharge	Monthly Charge
Voice Grade	1	x	$25	$ 25.00
DS1	24	x	$25	$600.00

(2) In the case of multipoint Special Access Service, one Special Access Surcharge will apply for each termination at a customer designated premises except that no surcharge applies at the customer designated premises when such premises are an interexchange carrier's point of termination.

(3) The Telephone Company will bill the surcharge to the customer who orders the Special Access Service unless the Service is exempt as set forth in (B) preceding.

7.4.3 Rates Zones (N)

Rate zones are applicable to CBT MercNET 1.5 (DS1) and CBT MercNET 45 (DS3) services described in this section. Each Telephone Company Wire Center has been assigned to a rate zone as described in 18, following. Channel Termination, Channel Mileage Fixed and Per Mile, Alternate Central Office and Interoffice Access Diversity rates are dependent upon the zone assignment of the Service Wire Center. Channel Mileage that is computed between wire centers in different rate zones will be assessed the rates in the higher rate zone. Multiplexing rates will be determined by the location of the multiplexing arrangement. (N)

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.4 Minimum Periods

The minimum service period for all services is one month except as follows:

(A) The minimum service period for part-time and occasional Program Audio services is one day (i.e., a continuous 24 hour period, not limited to a calendar day).

(B) The minimum period for individual case basis (ICB) services is one month unless otherwise specified in the ICB offering

(C) For Optional Payment Plans (OPP) for Digital Data Service, MercNet 45 and 1.544 High Capacity Services the minimum period is specified in paragraph 7.4.9 following.

(D) The minimum service period for Point-to-Point. OC-3. OC-12 or OC-48 Services is 12 months. After the minimum period is satisfied, see specified regulations in paragraph 7.4.9 following. (N)

(E) The minimum service period for OC-3 Dedicated Ring. OC-12 Dedicated Ring or OC-48 Dedicated Ring service is 36 months. After the minimum period is satisfied, see specified regulations in paragraph 7.4.9 following. (N)

7.4.5 Moves

A move involves a change in the physical location of one of the following.

. The Point of Termination at the customer's premises
. The customer's premises

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

All Moves will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period charges for the discontinued services.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

(D)

PUBLIC SERVICE COMMISSION
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MAY 23 1995

PURSUANT TO 807 KAR 5:011,
SECTION 9 (1)
BY: Jordan C. Neal
FOR THE PUBLIC SERVICE COMMISSION

(D)

7.4.6 Mileage Measurement

The mileage to be used to determine the monthly rate for the Channel Mileage is calculated on the airline distance between the locations involved, i.e., the serving wire centers associated with two customer designated premises, a serving wire center associated with a customer designated premises and a Telephone Company hub, or two Telephone Company hubs. The serving wire center associated with a customer designated premises is the serving wire center from which this customer designated premises would normally obtain dial tone.

Mileage is shown in 7.5 following in terms of mileage bands. To determine the rate to be billed, first compute the mileage using the V&H coordinates method, as set forth in the NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF FCC No. 4, then find the band into which the computed mileage falls and apply the rate shown for that band. When the calculation results in a fraction of a mile, always round up to the next whole mile before determining the mileage band and applying the rates.

When hubs are involved, mileage is computed and rates applied separately for each section of the Channel Mileage, i.e., customer designated premises serving wire center to hub, hub to hub and/or hub to customer designated premises serving wire center. However, when any service is routed through a hub for purposes other than customer specified bridging, multiplexing or Customer Network Reconfiguration Service (e.g., the Telephone Company chooses to so route for test access purposes), rates will be applied only to the distance calculated between the serving wire centers associated with the customer designated premises.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.7 Facility Hubs

A customer has the option of ordering Voice Grade facilities or digital high capacity facilities (i.e., DS1, DS1C, DS2, DS3 or DS4) to a facility hub for channelizing to individual services requiring lower capacity facilities (e.g., Telegraph, Voice, Program Audio, etc.).

Different locations may be designated as hubs for different facility capacities, e.g., multiplexing from digital to digital may occur at one location while multiplexing from digital to analog may occur at a different location. When placing an Access Order the customer will specify the desired hub. The National Exchange Carrier Association, Inc. Tariff FCC No. 4 identifies serving wire centers, hub locations and the type of multiplexing functions available.

Some of the types of multiplexing available include the following:

- from higher to lower bit rate
- from higher to lower bandwidth
- from digital to voice frequency channels

End to end services may be provided on channels of these facilities to a hub. The transmission performance for the end to end service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.7 Facility Hubs (Cont'd)

The Telephone Company will commence billing the monthly rate for the facility to the hub on the date specified by the customer on the Access Order. Individual services utilizing these facilities may be installed coincident with the installation of the facility to the hub or may be ordered and/or installed at a later date, at the option of the customer. The customer will be billed for a Voice Grade or a High Capacity digital Channel Termination, Channel Mileage (when applicable) and the multiplexer at the time the facility is installed. Individual service rates (by service type) will apply for a Channel Termination and additional Channel Mileage (as required) for each channelized service. These will be billed to the customer as each individual service is installed.

Cascading multiplexing occurs when a high capacity 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 MercNET 45 (DS3) facility is de-multiplexed to 28 DS1 facilities and then one of the DS1 facilities is further de-multiplex to individual Digital Data Service channels (i.e., 2.4, 4.8, 9.6, 56 or 64 kbps channels).

When cascading multiplexing is performed, whether in the same or a different hub, a charge for the additional multiplexing unit also applies. When cascading multiplexing is performed at different hubbing locations, Channel Mileage charges also apply between the hubs.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.7 Facility Hubs (Cont'd)

Although not requiring multiplexing, certain Program Audio services must be routed to Telephone Company designated hubs when connection is desired with other broadcast facilities. A customer can order full-time and/or part-time service(s) between customer designated premises and a hub and will be billed accordingly at the rates set forth in 7.5.4 or 7.5.5 following for the full-time or part-time service, as appropriate. At the request of a customer, the full-time and/or part-time services provided to the hub 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 customer will be charged for each such connection made at the rates for Other Labor as set forth in 13.2.6(C) following. The rates that apply for the service between each customer designated premises and the hub are a Channel Termination and Channel Mileage, if applicable. In addition, for Program Audio Services, rates for optional features and functions may be applicable. For two-point Program Audio services not requiring hubbing, circuit configuration will be as shown in 7.1.3 for two-point service.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.8 Shared Use High Capacity Services and OC-3. OC-12. and OC-48 Services (T)

Shared use occurs when Special Access Service and Switched Access Service including CCSAC signaling connections are provided over the same High Capacity facilities through a common interface. The facility will be ordered, provided and rated as Special Access Service (i.e., Channel Termination, Channel Mileage, as appropriate, and Multiplexer). The nonrecurring charge that applies when the shared use facility is installed will be the nonrecurring charge associated with the appropriate Special Access High Capacity Channel Termination. Individual service including Switched Access CCSAC signaling connections (i.e. Switched or Special Access) non-recurring charges will not apply to the individual channels of the shared used facility. 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 including CCSAC signaling connections. As each individual channel is activated for Switched Access Service including CCSAC signaling connections, the Special Access Channel Termination, Channel Mileage and Multiplexer rates, as appropriate, will be reduced accordingly (e.g., 1/24th for a DS1 service, etc.). The customer must place an order for each individual Switched or Special Access Service including CCSAC signaling connections utilizing the Shared Use Facilities and specify the channel assignment for each such service including CCSAC signaling connections.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.8 Shared Use High Capacity Services and OC-3. OC-12. and OC-48 Services (Cont'd)

Switched Access Service rates and charges as set forth in 6.8 preceding will apply for each channel of the shared use facility that is used to provide a Switched Access Service including CCSAC signaling connections. The ordering, provisioning and rating of Switched Access Shared Use facilities is set forth in 6.7.14 preceding. Where Special Access Service is provided utilizing a channel of the shared use facility to a Hub, High Capacity and OC Service 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 customer designated premises. The rates and charges that will apply to the portion from the Hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided (e.g., Voice Grade, Telegraph, etc.) The applicable rates and charges will include a Channel Termination and Channel Mileage, if applicable. Rates and charges for optional features and functions associated with the service, if any. will apply as set forth in 7.5 following.

7.4.9 Payment Plans for Frame Relay Service, Digital Data Service, MercNET 45. 1.544 High Capacity Services and OC-3, OC-12, OC-48 Services, and Shared SONET Service

The Optional Payment Plan (OPP) is a provision that allows a customer to pay a fixed rate for specific Frame Relay Service, Digital Data Service. MercNET 45. 1.544 High Capacity Service, OC-3. OC-12, OC-48 Services, and Shared SONET Service over a 36 or 60 month payment period. During the effective term, monthly rates for services installed under this arrangement will not be subject to Telephone Company initiated rate changes.

Frame Relay Service, Digital Data Service. MercNET 45, and 1.544 High Capacity, OC-3. OC-12, and OC-48 Service rates, and Shared SONET Service and charges for which the OPP is available are listed in 7.5.8, 7.5.9. 7.5.12. 7.5.13, 7.5.14 and 17.6 following. (C) (C)

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.9 Payment Plans for Frame Relay Service, Digital Data Service, MercNET 45, 1.544 High Capacity Service and OC-3. OC-12, and OC-48 Services. and Shared SONET Service. (Cont'd)

Customers subscribing to the OPP will be subject to nonrecurring charges as specified in 7.4.1(C), 7.5.8(A) and 7.5.9(A) for installation and rearrangements of services covered by the plan. The nonrecurring charges will not be spread over the OPP term.

During a customer's OPP/DCP term, the customer shall pay current rates provided they do not exceed the original rate contracted for by the customer. Conversion of service may be made to a new OPP/DCP term of the same or different length or to a higher speed service or to the same or higher speed Shared SONET service. If the expiration date for the new service or OPP/DCP term is beyond the end of the original OPP/DCP term. the remaining OPP/DCP charges for the original term will not apply.

At the expiration of the OPP term and if the customer wishes to continue Frame Relay Service, Digital Data Service, MercNET 45, 1.544 High Capacity Service, and OC-3. OC-12, OC-48 Services, and Shared SONET Service, the customer may elect:

- Prevailing month-to-month tariff rates
- A new OPP at the prevailing OPP rate, if available

The customer continues to receive the OPP rate ON a month-to-month basis for a period of up to six months following the completion of the term. After the six months, the rates wi11 automatically revert to the month-to-month rates.

During an OPP term, a customer may move one Channel Termination service to another location while keeping the OPP in force, provided the customer and customer's end user remain the same and NO lapse in service occurs.

The Minimum Period for service provided under an OPP is the same as the OPP term selected by the customer (i.e. 36 or 60 month payment period). The Minimum Period for service provided under the month-to-month payment arrangement is 12 months for Frame Relay Service. MercNET 45 Service, OC-3, OC-12, and OC-48 Services, and Shared SONET Service, and 1 month for 1.544 High Capacity Service and Digital Data Service. (C) (C)

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.9 Payment Plans for Frame Relay Service. Digital Data Service. MercNET 45, 1.544 High Capacity Service and OC-3. OC-12. OC-48 Services. and Shared SONET Service (Cont'd) (T) | (T) (C)

Customers requesting termination of service prior to the expiration date of the Minimum Period will be liable for payment of a Minimum Period Charge. The Minimum Period Charge for all OPP terms will be calculated as follows:

The service that is in place less than 12 months the customer would pay the monthly rate for the service.

The dollar difference between (a) the current OPP rate for the OPP term that could have been completed during the time the service was actually in service, and (b) the customer's current OPP rate for each month the service was provided.

For example, a customer subscribed to a 60 month OPP term and disconnected service during the 39th month. This customer's minimum period charge would be:

[36 month OPP rate - 60 month OPP rate] x 39 = Minimum Period Charge.

The 36 month OPP term could have been completed during the months the service was actually in service.

All minimum period charges will be based ON the OPP rates in effect at the time of termination.

Minimum Period Charges for all OPP terms that have been initiated prior to March 25. 1993. may, at the customer's request, be charged as described above or pay a percentage of the monthly charges for the remainder of the term as indicated below:

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.9 Payment Plans for Frame Relay Service, Digital Data Service, (C) MercNET 45. 1.544 High Capacity Service and OC-3. OC-12. OC-48 Services, and Shared SONET Service (Cont'd) (T) | (T)

MPC = MR x N x P

MPC = Minimum Period Charge for one Channel Termination

MR = Channel Termination Monthly Rate

N = Number of months remaining in the Minimum Period (partial months fractionalized using a 30 day month).

P = Appropriate fixed percentage for the associated Minimum Period from the following table:

Minimum Period	Percentaqe
12	100
36	75
60	60

7.4.10 MercNET 45 High Capacity Service - 12 Pack Arrangement

In addition to rate regulations preceding in 7.4.9, the following terms and conditions are listed below:

New contract periods would be established at the time the circuits are converted to the new 12 pack arrangement.

The minimum for the 12 pack arrangement is 12 MercNET 45's. If the customer goes below the minimum the customer will automatically be reverted to the existing tariff structure by contract period. The appropriate rate in the existing tariff structure will be applied based on the existing contract period of the 12 pack arrangement.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.11 Customer Network Reconfiguration Service (CNRS) (C)

(A) Service Establishment Charne

The Service Establishment Charge applies per customer database setup. The charge includes the initial setup of the database which contains all of the pertinent information for circuits and facilities that the customer wishes to control or monitor. Partitioning of customer circuits and initial customer training are also included.

(B) CNRS Port Charges

One DS1 Port is required for each DS1 facility which connects a customer designated premises to a CNRS hub. Two DS1 Ports are required for each DS1 mid link (i.e., the DS1 facility which connects a CNRS hub to another CNRS hub in the provision of CNRS service for a given customer). One DSO Port is required for each Voice Grade (C)
facility and 9.6, 56 or 64 kbps Digital Data facility (C)
which connects a customer designed premises to a CNRS hub. The monthly rate and nonrecurring charges are applicable as specified in 7.4.1 preceding.

(C) Charges for Reconfigurations and Database Changes Performed by the Teleuhone Company

Reconfigurations and database changes performed by the Telephone Company, at the request of the customer, are subject to the charges specified in 7.5.10. The charge applies per one half hour (or fraction thereof) of effort expended by the Telephone Company in making the requested reconfiguration or change.

When a customer adds a Voice Grade Service, Digital Data (C)
Services and/or a DS1 High Capacity Service to an existing CNRS configuration the charge applies for inputting the new circuit and facility information.

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7.4.12 Discount Commitment Program (DCP)

(A) General Description

The Discount Commitment Program (DCP) provides the customer with rate stabilization and discounted rates for Digital Data Service, 1.544 High Capacity Service and MercNET 45 Service and Shared SONET Service (described) in Sections 7.2.8 and 7.2.9. (C) and 7.2.13. The customer agrees to a minimum service commitment per service when establishing a DCP. Customers may disconnect or move Channel Terminations and not be subject to

Maximum Termination Liabi1ity charges as long as commitment levels are maintained.

DCPs may be established by service and be of either 36 or 60 months duration. A customer may have only one DCP per service in effect at one time. For example, a customer that has a 36-month DCP for Digital Data Service may not establish a second Digital Data Service until the current DCP expires.

Monthly rates for services installed under a DCP will change as Telephone Company-initiated rate changes become effective but during the DCP term will not exceed the original monthly rate in effect at the beginning of customer's DCP term. During the term of the selected DCP. Telephone Company initiated rate changes (increases or decreases) will automatically be applied to the monthly rates for the remaining months of the current DCP term. But in no case will any rate change cause the monthly rate during the DCP term to exceed that in effect at the beginning of the customer's DCP term.

(B) Commitment Level

A customer establishes a DCP term by committing 90 percent of their in service Channel Termination Network Access Connection, or off-Network Connections to a term of either 36 or 60 months duration. Although the commitment is based upon Channel Termination (CTs) Network Access Connections (NAC's) and (C) Off-Network Connection ONACS), the following rate elements will (C) all receive DCP rates:

Channel Termination
Channel Mi1eage
Network Access Connection (C)
Off-Network Access Connection
Service Area Transport (C)

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.12 Discount Commitment Program (DCP)

(B) Commitment Level (Cont'd)

The customer will not receive the DCP rates for in-service levels above the 90 percent commitment level established. For example, a customer with 100 CTs in-service and commits to 90 CTs (i.e. 90 percent) will receive the DCP rates for up to 90 CTs.

If a customer's actual in-service level falls below the commitment level, the customer will be billed for the commitment level of CTs at DCP Rates. For example, a customer that commits 90 CTs but has only 70 CTs in service will be billed the DCP rates for 90 CTs.

(C) 90-Day Review Period

No adjustments, for being above or below commitment level (as described in (B) above). in monthly billing for a DCP will be made until 90 days after Telephone Company notification to the customer that the commitment level has been exceeded or not been met. This will insure that customers will not be penalized for aberrations in Channel Termination Network Access Connection or Off-Network Access Connection (T) counts caused by timing differentials in disconnection and installation.

Customer's bills will not be adjusted for being outside the parameters described in 7.4.12(B), preceding during the 90 day review period. Additionally. customers will continue to be billed the adjustments (following the 90 day review period) for being outside the described parameters until the commitment level is met or increased. A new 90-day review period will be initiated if the customer's actual in-service level subsequently falls outside the described parameters.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.12 Discount Commitment Program (DCP)

(D) Increasing the DCP Commitment Level

Customers may increase their commitment level at any time by notifying the Telephone Company in writing. An increase in the commitment level will not change the expiration date of the DCP

When a commitment level is increased, the actual in-service CT level at the time of the increase will be used to calculate billing adjustments as described in Section 7.4.12(B), preceding.

(E) Decreasing the DCP Commitment Level and Termination Liabilities

Customers may decrease their commitment level only by paying termination liability charges on the number of Channel Terminations, Network Access Connections or Off- (C) Network Access Connections by which the commitment level is decreased. Termination Liabilities will apply to (C) Digital Data, 1.544 High Capacity, MercNET 45 and Shared SONET Service. For (C) example, a customer has a commitment level of 90 CTs. The customer then decreases this commitment level to 70 CTs. The customer must pay termination liabilities on 20 CTs.

The Termination Liability for DCP is calculated to be the dollar difference between the current DCP rate for the DCP term that could have been completed during the time the service was actually in service, or the monthly rate for services in service. or the monthly rate for services in place less than 36 months, and the customer's current DCP rate for each month the service was provided.

For example, a customer subscribing to a 60-month DCP term reduced their CT commitment by 20 CTs during the 37th month This customer's termination charge would be:

20 CTs x (36 month DCP rate - 60 month DCP rate) x 37 months = Termination Charge

A decrease in the commitment level will not change the expiration date of the DCP.

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.12 Discount Commitment Program (DCP)

(F) Upgrading a DCP Service

When a customer upgrades a Digital Data service being billed DCP rates to a 1.544 High Capacity, the Digital Data service DCP commitment level will be reduced at the customer's request (up to a maximum of 24) and no termination liabilities will apply. If the customer has a DCP for a 1.544 High Capacity, the 1.544 High Capacity DCP commitment level will be increased if the customer requests that it be increased. When a customer upgrades a 1.544 High Capacity service being billed DCP rates to a MercNET 45 service with the same termination points, the customer's 1.544 High Capacity DCP commitment level will be reduced at the customer's request (up to a maximum of 28) and no termination liabilities will apply.

(G) Conversion to an Optional Payment Plan (OPP)

Customers may convert services from a DCP term to an OPP as described in 7.4.9, preceding. No termination liabilities will apply to services converted to an OPP term of the same or longer length than the DCP term. Additionally, the customer's DCP commitment level will be reduced by the number of CTs, NALCS, or ONACS, associated with the service, converted to an OPP term. (T)

7.5 Rates and Charges

7.5.1 Metallic Service

	USOC	Monthly Rates	Nonrecurring Charges
(A) Channel Termination			
. Per Point of Termination	T6ECS	$36.00(I)	None

(B) Channel Mileage

	USOC	Monthly Fixed	Rates Per Mile
Mileage Bands			
0	1L5XX	None	None
Over 0 to 4	1L5XX	$61.00(I)	$ 1.25(I)
Over 4 to 8	1L5XX	61.00 |	1.25 |
Over 8 to 25	1L5XX	61.00 |	1.25 |
Over 251	1L5XX	61.00(I)	1.25(I)

(C) Optional Features and Functions

	USOC	Monthly Rates	Nonrecurring Charges
(1) Bridging			
(a) Three Premises Bridging			
. Per Port	BCNM3	$ .48	None
(b) Series Bridging			
Per Port	BCNMS	$ .95	None

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.2 Telegraph Grade Service

		Monthly Rates	Nonrecurring Charges
(A) Channel Termination - Per Point of Termination			
- Two-Wire	T6E2X	$35.00(I)	None
- Four-Wire	T6E4X	49.60(I)	None

(B) Channel Mileage

		Monthly Rates	
	USOC	Fixed	Per Mile
Mileage Bands			
0	1L5XX	None	None
Over 0 to 4	1L5XX	$61.00(I)	$1.25(R)
Over 4 to 8	1L5XX	61.00 |	1.25 |
Over 8 to 25	1L5XX	61.00 |	1.25 |
Over 25	1L5XX	61.00(I)	1.25(R)

(C) Optional Features and Functions

	USOC	Monthly Rates	Nonrecurring Charges
(1) Telegraph Bridging Two-Wire and Four-Wire Per port			
Two-Wire	BCNT2	$ .48	None
Four-Wire	BCNT4	.95	None

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.3 Voice Grade Service

	USOC	Monthly Rates	Nonrecurring Charges
(A) Channel Termination			
(1) Voice Grade			
Per Point of Termination			
- Two-Wire	T6E2X	$31.00(R)	None
- Four-Wire	T6E4X	49.60(R)	None
(2) WATS Access Line (WAL)			
- Per Point of Termination*			
- Two-Wire	X2W	See T6E2X	
- Four-Wire	X4W	See T6E4X	

(B) Channel Mileage

Mileage Bands		USOC	Monthly Rates Fixed	Monthly Rates Per Mile
	0	1L5XX	None	None
Over	0 to 4	1L5XX	$61.00(I)	$1.25(I)
Over	4 to 8	1L5XX	61.00 |	1.25 |
Over	8 to 25	1L5XX	61.00 |	1.25 |
Over	25	1L5XX	61.00(I)	1.25(I)

*One Channel Termination applies per WAL

7. Special Access Service (Cont'd)

7.5 Rates and Charnes (Cont'd)

7.5.3 Voice Grade Service

	USOC	Monthly Rates	Nonrecurring Charnes
(C) Optional Features and Functions			
(1) Bridging			
(a) Voice and WAL Bridging			
Two-Wire/Four-Wire			
- Per port			
- Two-Wire	BCNV2	$1.41(I)	None
- Four-Wire	BCNV4	2.51(I)	None
(b) Data Bridging			
Two-Wire/Four-Wire			
- Per port			
- Two-Wire	BCND2	4.70(R)	None
- Four-Wire	BCND4	1.41(R)	None
(c) Telephoto Bridning			
Two-Wire/Four-Wire			
- Per port			
- Two-Wire	BCNF2	.48(R)	None
- Four-Wire	BCNF4	.95(R)	None
(d) DATAPHONE Select-A-Station Bridging			
Sequential Arrangement Ports			
- Per 2-wire channel connected	DQ2	ICB	None
- Per 4-wire channel connected	DQ4	ICB	None

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

	USOC	Monthly Rates	Nonrecurring Charges
(C) Optional Features and Functions (Cont'd)			
(1) (Reserved)			
(d) (Reserved)			

(D)

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7. Special Access Service (Cont'd)

7.5 Rates and Charnes (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

	USOC	Monthly Rates	Nonrecurring Charnes
(C) Optional Features and Functions (Cont'd)			
(2) Conditioning			
- Per Point of Termination			
C - Type	X1CPT	$7.43(R)	None
Sealing Current	1HBPT	None	None

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

	Monthly Rates	Nonrecurring Charges		
(C) Optional Features and Functions (Cont'd)				
(3) Improved Termination - Per point of termination - Four-Wire	1RL4W	$7.84(R)	None	
(4) Improved Return Loss - Per point of termination - Two-Wire	1RL2W	4.17(R)	None	
(5) Customer Specified Receive Level - Per two-wire point of termination	RLS	None	None	
(6) Data Capability - Per point of termination	XDCPT	.74(R)	None	(R)
(7) Telephoto Capability - Per point of termination	XTCPT	1.61(R)	None	(R)

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

	USOC	Monthly Rates	Nonrecurring Charges
(C) Optional Features and Functions (Cont'd)			
(8) Signaling Capability			
- Per point of termination	XSS++	$10.46 (R)	None
- In lieu of ++, substitute appropriate two digit code from following list to specify type of signaling.			
AB			
AC			
CT			
DX			
DY			
EA			
EB			
EC			
Ex			
GO			
GS			
LA			
LB			
LC			
LO			
LR			
LS			
RV			
SF			

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.3 Voice Grade Service (Cont'd)

	USOC	Monthly Rates	Nonrecurring Charges	
(C) Optional Features and Functions (Cont'd)				
(9) (Reserved)				(D)
(10) (Reserved)				(D)

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.4 Program Audio Service

	USOC	Monthly Rates	Daily* Rates	Nonrecurring Charges Monthly	Nonrecurring Charges Daily
(A) Channel Termination					
- Per Point of Termination					
- 200 to 3500 Hz	T6ECS	$ 25.94(R)	$ 2.59(R)	None(R)	None(R)
- 100 to 5000 Hz	T6ECS	39.02(R)	3.90(R)	Rcme	None
- 50 to 8000 Hz	T6ECS	48.20(I)	4.82(I)	Rcme	None
- 50 to 15000 Hz	T6ECS	119.86(R)	14.26(R)	None(R)	None(R)

* Daily rates will be topped and maximum rates derived as set forth in 7.4.1(B) preceding.

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.4 Program Audio Service

(B) Channel Mileane

	USOC	Monthly Rates Fixed	Monthly Rates Per Mile	Daily Rates* Fixed	Daily Rates* Per Mile
(1) 200 to 3500 Hz					
Mileage Bands 0	1L5XX	None	None	None	None
Over 0 to 4	1L5XX	$58.03(I)	$1.57(R)	$5.80(I)	$.16(R)
Over 4 to 8	1L5XX	50.03	1.57	5.80	.16
Over 8 to 25	1L5XX	58.03	1.57	5.80	.16
Over 25	1L5XX	58.03(I)	1.57(R)	5.80(I)	.16(R)
(2) 100 to 5000 Hz					
Mileage Bands 0	1L5XX	None	None	None	None
Over 0 to 4	1L5XX	116.05(I)	2.60(I)	11.61(I)	.26(I)
Over 4 to 8	1L5XX	116.05	2.60	11.6	.26
Over 8 to 25	1L5XX	116.05	2.60	11.6	.26
Over 25	1L5XX	116.05(I)	2.60(I)	11.61(I)	.26(I)

* Daily rates will be topped and maximum rates derived as set forth in 7.4.1(B) preceding.

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7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.4 Pronram Audio Service (Cont'd)

(B) Channel Mileage (Cont'd)

	USOC	Monthly Rates Fixed	Monthly Rates Per Mile	Daily Rates* Fixed	Daily Rates* Per Mile
(3) 50 to 8000 Hz					
Mileage Bands					
0	1L5XX	None	None	None	None
Over 0 to 4.	1L5XX	$174.08(R)	$3.78(R)	$17.41(R)	$.38(R)
Over 4 to 8	1L5XX	174.08 |	3.78 |	17.41 |	.38 |
Over 8 to 25	1L5XX	174.08 |	3.78 |	17.41 |	.38 |
Over 25	1L5XX	174.08(R)	3.78(R)	17.41(R)	.38(R)
(4) 50 to 15000 Hz					
Mileage Bands					
0	1L5XX	None	None	None	None
Over 0 to 4	1L5XX	348.14(I)	4.39(R)	34.81(I)	.44(R)
Over 4 to 8	1L5XX	348.14 |	4.39 |	34.81 |	.44 |
Over 8 to 25	1L5XX	348.14 |	4.39 |	34.81 |	.44 |
Over 25	1L5XX	348.14(I)	4.39(R)	34.81(I)	.44(R)

* Daily rates will be topped and maximum rates derived as set forth in 7.4.1(B) preceding.

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7. Special Access Service (Cont'd)

7.5 Rates and Charnes (Cont'd)

7.5.4 Program Audio Service (Cont'd)

(C) Optional Features and Functions

	USOC	Monthly Rates	Daily* Rates	Nonrecurring Charges Monthly	Nonrecurring Charges Daily
(1) Bridging (Distribution Amp1ifier) - Per port	BCNPT	ICB	ICB	None	None
(2) Gain Conditioning - Per service	XGC	$10.77(R)	$1.08(R)	None (R)	None (R)
(3) Stereo - Per service	XSC	None	None	None (R)	None (R)

* Daily rates will be topped and maximum rates derived as set forth in 7.4.1(B) preceding.

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7.5 Rates and Charges (Cont'd)

7.5.5 Video Service (N)

	USOC	Monthly Rates	Daily* Rates	Nonrecurring Charges Monthly	Daily
(A) Channel Termination - Per Point of Termination					
- TV-1 or 2	TMEV1	$370.98	$185.49	None	None
- 4TV-5	TMEV4	370.98	185.49	None	None
- 6TV-5	TMEV6	370.98	185.49	None	None
- TV-15	TMEV5	370.98	185.49	None	None

(B) Channel Mileage

Mileage Bands	USOC**	Monthly Rate Fixed	Monthly Rate Per Mile	Daily Rates* Fixed	Daily Rates* Per Mile
0	1L5XX	None	None	None	None
Over 0 to 4	1L5XX	$128.25	$72.60	$64.13	$36.30
Over 4 to 8	1L5XX	128.25	72.60	64.13	36.30
Over 8 to 25	1L5XX	128.25	72.60	64.13	36.30
Over 25	1L5XX	128.25	72.60	64.13	36.30

* Daily rates will be topped and maximum rates derived as set forth in 7.4.1 (B) preceding.

** When service is provided by multiple companies use USOC: CM6 for Fixed-Channel Mileage and USOC: ZL5XX for Per Mile-Channel Mileage for all Mileage Bands. (N)

7.5.6 Reserved

7.5.7 Reserved

7.5.8 Digital Data Service

	USOC	Recurring Charges Optional Payment Plan and Discount Commitment Monthly Rates	Program 36 Mo.	Program 60 Mo.
(A) Channel Termination - Per point of termination				
2.4 kbps	T6ECS	$55.00(R)	$52.25(R)	$49.50(R)
4.8 kbps	T6ECS	55.00 |	52.25 |	49.50 |
9.6 kbps	T6ECS	55.00(R)	52.25(R)	49.50(R)
19.2 kbps	T6ECS	70.00	66.50	63.00 (N)
56.0 kbps	T6ECS	70.00(R)	66.50(R)	63.00(R)
64.0 kbps	T6ECS	70.00(R)	66.50(R)	63.00(R)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.8 Digital Data Service (Cont'd)

	USOC	Monthly Rates Fixed	Per Mile
(C) Channel Mileage			
(1) 2.4 kbps			
Mileage Bands			
0	1L5XX	None	
Over 0 to 4	1L5XX	$61.00(I)	
Over 4 to 8	1L5XX	61.00 |	1.04 |
Over 8 to 25	1L5XX	61.00 |	1.04 |
Over 25	1L5XX	61.00(I)	1.04(|)
(2) 4.8 kbps			
Mileage Bands			
0	1L5XX	None	
Over 0 to 4	1L5XX	61.00(I)	
Over 4 to 8	1L5XX	61.00 |	
Over 8 to 25	1L5XX	61.00 |	
Over 25	1L5XX	61.00(I)	
(3) 9.6 kbps			
Mileage Bands			
0	1L5XX	None	
Over 0 to 4	1L5XX	61.00(I)	
Over 4 to 8	1L5XX	61.00 |	
Over 8 to 25	1L5XX	61.00 |	
Over 25	1L5XX	61.00(I)	

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.8 Digital Data Service (Cont'd)

(C) Channel Mileage (Cont'd)

(4) 19.2 kbps (N)

Mileage Bands	usoc	Monthly Rates Fixed	Per Mile
	Monthly, Optional Payment Plan and Discount Commitment Program		
0	1L5XX	None	None
Over 0 to 4	1L5XX	$61.00	$1.04
Over 4 to 8	1L5XX	61.00	1.04
Over 8 to 25	1L5XX	61.00	1.04
Over 25	1L5XX	61.00	1.04 (N)

(5) 56 kbps

Mileage Bands	usoc	Monthly, Optional Payment Plan and Discount Commitment Program Fixed	Per Mile
0	1L5XX	None	None
Over 0 to 4	1L5XX	$61.00( )	$1.04 (I)
Over 4 to 8	1L5XX	61.00	1.04
Over 8 to 25	1L5XX	61.00	1.04
Over 25	1L5XX	61.00( )	1.04 (I)

(6) 64 kbps

Mileage Bands	usoc	Monthly, Optional Payment Plan and Discount Commitment Program Fixed	Per Mile
0	1L5XX	None	None
Over 0 to 4	1L5XX	61.00(I)	1.04(I)
Over 4 to 8	1L5XX	61.00	1.04
Over 8 to 25	1L5XX	61.00	1.04
Over 25	1L5XX	61.00(I)	1.04(I)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.8 Digital Data Service (Cont'd)

(D) Optional Features and Functions

	USOC	Monthly Rates	Nonrecurring Charges
(1) Bridging - Per port	BCNDA	$ 2.36(R)	None
(2) (Reserved)			
(3) Secondary Channel Capability, per point of termination	SFS	None	None

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE

MAY 23 1995

PURSUANT TO 807 KAR 5:011,
SECTION 9 (1)
BY: Jordan C. Neal
FOR THE PUBLIC SERVICE COMMISSION

Deborah A Dieck President, Cincinnati, Ohio

Vice President
Integrated Corporate Planning for

7. Special Access Service (Cont'd)

7.5 Rates and Charges

7.5.9 High Capacity Service

	Monthly USOC	Nonrecurring Rates	Charges
(A) Channel Termination			
- Per Point of Termination			
- 3.152 Mbps	TWR++	ICB	None
- 6.312 Mbps	TWT++	ICB	None
- 274.176 Mbps	TWT++	ICB	None

Recurring Charges-Optional Payment Plan and Discount Commitment Program

1.544 Mbps (MercNet 1.5)	USOC	MONTHLY	36 MOS.	60 MOS.	
Zone 1	TZGA1	$ 135.79	$ 129.00	$ 122.21	
Zone 2	TZGA2	$ 135.79	$ 129.00	$ 122.21	(N)
Zone 3	TZGA3	$ 135.79	$ 129.00	$ 122.21	(N)
MercNET 45					
1st Chan. Term.					
Zone 1	TZGB1	$1800.00(R)	$1200.00(R)	$1000.00(R)	
Zone 2	TZGB2	$1800.00	$1200.00	$1000.00	(N)
Zone 3	TZGB3	$1800.00	$1200.00	$1000.00	(N)
2nd Chan. Term.					
Zone 1	TZGC1	$1661.00(R)	$855.00(R)	$676.00(R)	
Zone 2	TZGC2	$1661.00	$855.00	$676.00	(N)
Zone 3	TZGC3	$1661.00	$855.00	$676.00	(N)
3rd Chan. Term.					
Zone 1	TZGD1	$1637.00(R)	$836.00(R)	$654.00(R)	
Zone 2	TZGD2	$1637.00	$836.00	$654.00	(N)
Zone 3	TZGD3	$1637.00	$836.00	$654.00	(N)
MercNEt 45					
12 Pack Arrangement/CT					
Zone 1	HZ4P1	$1569.95(R)	$824.52(R)	$650.43(R)	
Zone 2	HZ4P2	$1569.95	$824.52	$650.43	(N)
Zone 3	HZ4P3	$1569.95	$824.52	$650.43	(N)

7. Si)ecial Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

	USOC	Monthly Rates Fixed	Monthly Rates Per Mile
(B) Channel Mileage (Cont'd)			
(4) 6.312 Mbps			
Mi1eage Bands			
0	1LO++	None	None
Over 0 to 4	1LO++	ICB	ICB
Over 4 to 8	1LO++	ICB	ICB
Over 8 to 25	1LO++	ICB	ICB
Over 25	1LO++	ICB	ICB
(5) MercNet 45			
Monthly and Optional Payment Plan			
Mi1eage Bands			
(a) Zone 1			
0	1YBB1	None	None
Over 0 to 4	1YBBI	$800.00(R)	$90.00(R)
Over 4 to 8	1YBB1	800.00 |	90.00 |
Over 8 to 25	1YBB1	800.00 |	90.00 |
Over 25	1YBB1	800.00(R)	90.00(R)
(b) Zone 2			
0	1YBB2	None	None
Over 0 to 4	1YBB2	$800.00	$90.00
Over 4 to 8	1YBB2	800.00	90.00
Over 8 to 25	1YBB2	800.00	90.00
Over 25	1YBB2	800.00	90.00
(c) Zone 3			
0	1YBB3	None	None
Over 0 to 4	1YBB3	$800.00	$90.00
Over 4 to 8	1YBB3	800.00	90.00
Over 8 to 25	1YBB3	800.00	90.00
Over 25	1YBB3	800.00	90.00

(I) (N)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

	USOC	Monthly Rates Fixed	Per Mile
(B) Channel Mileage (Cont'd)			
(6) 274.176 Mbps			
Mileage Bands			
0	1LO++	None	None
Over 0 to 4	1LO++	ICB	ICB
Over 4 to 8	1LO++	ICB	ICB
Over 8 to 25	1LO++	ICB	ICB
Over 25	1LO++	ICB	ICB

PUBLIC SERVICE COMMISSION
OF KENTUCKY
EFFECTIVE

MAR 3 1992

PURSUANT TO 807 KAR 5:011,
SECTION 9 (1)
BY: [signature]
PUBLIC SERVICE COMMISSION MANAGER

Issued: February 7, 1992

Effective: March 3, 1992

Robert E. Agnew for President, Cincinnati, Ohio

Vice President - Regulatory Affairs

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

	Monthly USOC	Nonrecurring Rates	Charges	
(C) Optional Features and Functions				
(1) Multiplexing				
DS4 to DS1				
- Per arrangement	MXA++	ICB	None	
DS3 to DS1				
- Per arrangement				
- Zone 1	QM3X1	$ 678.02	None	(C)
- Zone 2	QM3X2	678.02	None	
- Zone 3	QH3X3	678.02	None	
DS2 to DS1				
- Per arrangement	MXD++	ICB	None	
DSLC to DS1				
- Per arrangement	MXH++	ICB	None	
DSI to Voice*				
- Per arrangement				
- Zone 1	QMVX1	$ 285.45	None	
- Zone 2	QMVX2	285.45	None	
- Zone 3	QMVX3	285.45	None	
DS1 to Digital Data**				
- Per arrangement				
- Zone 1	QMKX1	285.45	None	
- Zone 2	QMKX2	285.45	None	
- Zone 3	QMKX3	285.45	None	

* A channel(s) of this DSI to the Hub can be used for Program Audio, Metallic or WATS Access Line Services.

** A channel of this DS1 to the Hub can be used for Digital Data with or without Secondary Channel Capability, Voice Grade, Program Audio, Metallic or WATS Access Line Services.

7. Special Access Service (Cont'd)

7.5 Rates and Charnes (Cont'd)

7.5.9 High Capacity Service (Cont'd)

	USOC	Monthly Rates	Nonrecurring Charges
(C) Optional Features and Functions (Cont'd)			
(1) Multiplexing (Cont'd)			
DS1 to DSO*			
- Per arrangement	QMU	$195.79(I)	None
DSO to Subrates*			
- Per arrangement			
- Up to 20 2.4 kbps services	QSU24	61.49(R)	None
- Up to 10 4.8 kbps services	QSU48	36.10(R)	None
- Up to 5 9.6 kbps services	QSU96	23.40(R)	None

PUBLIC SERVICE COMMISSION
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PURSUANT TO 807 KAR 5:011,
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FOR THE PUBLIC SERVICE COMMISSION

* This arrangement can be provided with the Secondary Channel Capability feature of Digital Data Service.

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.9 High Capacity Service (Cont'd)

	USOC	Monthly Rates	Nonrecurring Charges	
(C) Optional Features and Functions (Cont'd)				
(2) Alternate Central Office Channel				
- Per 1.544 Mbps High Capacity				
- Zone 1	AVXA1	$ 71.30	None	
- Zone 2	AVXA2	$ 71.30	None	(N)
- Zone 3	AVXA3	$ 71.30	None	(N)
- Per 45 Mbps High Capacity				
- Zone 1	AVXB1	$200.00	None	
- Zone 2	AVXB2	$200.00	None	(N)
- Zone 3	AVXB3	$200.00	None	(N)
(3) Service To Service Through Connect Arrangement				
- Per 1.544 Mbps High Capacity	STMLX	None	None	
(4) Clear Channel Capability				
- Per High Capacity channel termination	CLR	0.00	None	
(5) Interoffice Access Diversity (EAD)				
- Per 1.544 Mbps or 45 Mbps High Capacity				
- Zone 1	DZQX1	12.00	None	
- Zone 2	DZQX2	12.00	None	(N)
- Zone 3	DZQX3	12.00	None	(N)

7. Special Access ervice (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.10 Customer Network Reconfiguration Service (CNRS)

	USOC	Monthly Rates	Nonrecurring Charge
A. Service Establishment Charge - Per Database Setup	NRBNS		None(R)
B. CNRS Port Charges			
- DS1 Port	PT6	$77.07(R)	None(R)
- DSO Port	PT5	28.25(R)	None(R)
C. Reconfiguration and/or Database Changes Performed by the Telephone Company			
- Basic Time, normally scheduled working hours, per half hour or fraction thereof	NRBNR		None(R)
- Overtime, outside of normally scheduled working hours, per half hour or fraction thereof	NRBNO(N)	-	None(R)

7.5.11 Special Access Surcharge Special Access Surcharge
- Per Surcharge Assessed S25++* 25.00

In lieu of ++, substitute EX for exempt or AP for applicable.

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-3 Service, OC-12 Service. and OC-48 Service - Point-to-Point Services (N)

(A) OC-3 Service

	USOC	Recurring Charge Monthly	36 Mo.	60 Mo.
(1) Channel Termination				
- Per Point of Termination Terminating Bit Rate 155.52 Mbps	TMECS	$1,660.00	$1,420.00	$1,180.00
(2) Channel Mileage				
Fixed	1L5XX	630.00	535.00	500.00
Per mile at 155.52 Mbps	1L5XX	245.00	210.00	200.00
(3) Optional Features and Functions				
(a) OC-3 Add/Drop Multiplexing - Per Arrangement	MXRCX	1,100.00	935.00	775.00
(b) Add/Drop Function - Per DS3 Add or Drop	MXJBX	120.00		
- Per DS1 Add or Drop	MXJAX	45.00		(N)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to-Point Services (Cont'd) (N)

(A) OC-3 Service (Cont'd)

(3) Optional Features and Functions (Cont'd)	USOC	Monthly
(c) Cross-Connection of Services OC-3 to OC-3 Cross-Connect Per Circuit	OCCCX	$100.00
(d) 1+1 Protection with Route Survivability		
- Per Quarter Route Mile	S2DXY	50.00
(e) 1+1 Protection with Central Office Survivability		
- Per Quarter Route Mile	S2VXY	50.00
- Channel Mileage Fixed and Per Mile		Apply Rates and Charges As 7.5.12A Preceding

(N)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to-Point Services (D)

(B) OC-12 Service

		USOC	Recurring Charge Optional Payment Plan Monthly	36 Mo.	60 Mo.
(1)	Channel Termination Per Point of Termination Terminating Bit Rate 622.08 Mbps	TMECS	$3,410.00	$2,926.00	$2,445.00
(2)	Channel Mileage				
	- Fixed	1L5XX	935.00	795.00	750.00
	- Per mile at 622.08 Mbps	1L5XX	495.00	420.00	400.00
(3)	Optional Features and Functions				
	(a) OC-12 Add/Drop				
	- Per Multiplexing Arrangement	MXRDX	2,460.00	2,092.00	1,720.00
	(b) Add/Drop Function				
	- Per DS3 Add or Drop	MXJBX	150.00		
	- Per DS1 Add or Drop	MXJBX	120.00		(N)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to-Point Services (Cont'd) (N)

(B) OC-12 Service (Cont'd)

(3) Optional Features and Functions (Cont'd)	USOC	Monthly
(c) Cross-Connection of Services oc-12 to oc-12 Cross-Connect Per Circuit	CCCDX	$545.00
(d) 1+1 Protection with Route Survivability		
- Per Quarter Route Mile	S2DXY	50.00
(e) 1+1 Protection with Central Office Survivability		
- Per Quarter Route Mile	S2VXY	50.00
- Channel Mileage Fixed and Per Mile		Apply Rates and Charges As 7.5.12B Preceding (N)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to-Point Services (N)

(C) OC-48 Service

	USOC	Recurring Charge Monthly	Optional Payment Plan 36 Mo.	60 Mo.
(1) Channel Termination				
Per Point of Termination Terminating Bit Rate 2488.32 Mbps	TMECS	$9,170.00	$7,970.00	$6,770.00
(2) Channel Mileage				
- Fixed	1L5XX	2,100.00	1,890.00	1,785.00
- Per mile at 2488.32 Mbps	1L5XX	545.00	515.00	440.00
(3) Optional Features and Functions				
(a) OC-48 Add/Drop Multiplexing - Per Arrangement (not to exceed 12 DS3s or equivalent)	MXRFX	1,370.00	1,165.00	960.00
(b) Add/Drop Function - Per OC-12 Add or Drop	MXJEX	375.00		
- Per OC-3 Add or Drop	MXICX	150.00		
- Per DS3 Add or Drop	MXJBX	120.00		(N)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.12 OC-3 Service, OC-12 Service, and OC-48 Service - Point-to-Point Services (Cont'd) (I)

(C) OC-48 Service (Cont'd)

(3) Optional Features and Functions (Contd)	USOC	Monthly	
(c) Cross-Connection of Services OC-48 to OC-48 Cross-Connect Per Circuit	OCCFX	$1,095.00	
(d) 1+1 Protection with Route Survivability			
- Per Quarter Route Mile	S2DXY	50.00	
(e) 1+1 Protection with Central Office Survivability			
- Per Quarter Route Mile	S2VXY	50.00	
- Channel Mileage Fixed and Per Mile		Apply Rates and Charges As 7.5.12C Preceding	
(f) Point-to-Point OC-48 Regenerator			
- Each (as required)	RGY4B	5,270.00	(N)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.13 OC-3 Service. OC-12 Service, and OC-48 Service - Dedicated Ring (N)

(A) Node

	USOC	36 Mo.	60 Mo.
Per Node Type			
OC-3			
Customer Premises	FP5CX	$1,765.00	$1,410.00
Central Office	FC5CX	1,000.00	800.00
OC-12			
Customer Premises	FP5DX	3,076.00	2,460.00
Central Office	FC5DX	2,501.00	1,885.00
OC-48			
Customer Premises	FP5EX	5,885.00	4,710.00
Central Office	FC5EX	5,240.00	4,190.00

(B) OC-48 Add/Drop Capability

Per Arrangement (not to exceed 12 DS3s or equivalent)	MPEFX	1,165.00	960.00	(N)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd) (I)

(C) Ports

		USOC	36 No.	60 Mb
PER NODE				
DS1 AT OC-3	NODE	SPRAX	$ 50.00	$ 45.00
DS3 at OC-3	Node	SPRBX	120.00	110.00
DS3 at OC-12	Node	SPRCX	120.00	110.00
OC-3 at OC-12	Node	SPREX	150.00	135.00
DS1 at OC-12	Node*	SPRGX	50.00	45.00
OC-12 at OC-48	Node	SPRHX	375.00	360.00
OC-3 at OC-48	Node	SPRJX	150.00	135.00
DS3 at OC-48	Node	SPRKX	120.00	110.00
DS1 at OC-48	Node*	SPRLX	50.00	45.00

(D) Mileage

Per mile between nodes by ring type			
OC-3	1A5BS	255.00	220.00
OC-12	1A5BS	255.00	220.00
OC-48	1A5BS	255.00	220.00

(E) Optical to Electrical DS1 Add/Drop Capability

Per OC-3 to DS1 Add/Drop	MXJDX	875.00	700.00

Optical to Electrical DS1 add/drop capability as shown in 7.2.13 is needed along with an OC-3 port. (N)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.13 OC-3 Service, OC-12 Service, and OC-48 Service Dedicated Ring (Cont'd)

(N)

(F) Dedicated Ring Regenerator

	USOC	36 Mo.	60 Mo.		
OC-3					
Each (as required)	RGY	$1,000.00	$ 800.00		
oc-12					
Each (as required)	RGY	2,620.00	2,095.00		
OC-48					
Each (as required)	RGY	3,275.00	2,620.00	(N)	(C)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.14 Shared SONET Service (N)

	USOC	Monthly Rates	Recurring Charges Optional Payment Plan 36. Mo	60 Mo.
(A) Network Access Connection (NAC)				
- Per DS1 Customer Premises Termination	NYALX	$ 157.00	$118.00	$105.00
- Per DS3 Customer Premises Termination	NYA3X	$1,193.00	$895.00	$795.00
(B) Off-Network Access Connection (ONAC)				
- Per DS1 Central Office Connection	NY01X	$90.00	$ 50.00	$ 35.00
- Per DS3 Central Office Connection	NY03X	$ 108.00	$ 65.00	$ 55.00
- Per OC-3 Central Office Connection	NYOAX	$ 444.00	$335.00	$295.00
- Per OC-12 Central Office Connection	NYOBX	$ 750.00	$580.00	$550.00 (N)

7. Special Access Service (Cont'd)

7.5 Rates and Charges (Cont'd)

7.5.14 Shared SONET Service (Cont'd) (N)

	USOC	Monthly Rates	Recurring Charges Optional Payment Plan 36. Mo	60 No.
(C) DS3 Payload Multiplexing Function				
- Per DS3/STS-1 to/from DS1/Vr 1.5 on the network	MPEMX	$385.00	$325.00	$305.00

	USOC	Monthly Rates
(D) Service Area Transport		
- Per Band on the Network DS1/VT1.5 Point to Point		
- up to 3 miles	1Y6AA	$ 52.00
- greater than 3 miles up to 10 miles	1Y6AB	76.00
- greater than 10 miles	1Y6AC	108.00
- Per Band on the Network DS3/STS-1 Point to Point		
- up to 3 miles	1Y6BA	$ 728.00
- greater than 3 miles up to 10 miles	1Y6BB	1.064.00
- greater than 10 miles	1Y6BC	1.512.00
- Per Band on the Network DS3, OC-3 or OC-12 channelized on a per DS1/Vrl.5 Basis		
- up to 3 miles	1Y6EA	$26.00
- greater than 3 miles up to 10 Miles	1Y6EB	38.00
- greater than 10 Miles	1Y6EC	54.00 (N)