

OTHER SERVICES

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D12. SPECIAL ACCESS SERVICE

LIST OF EFFECTIVE SHEETS

Sheets listed below are effective as of the date shown on each sheet.

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NOTE 1: MON Ring Grandfathered effective December 1, 2012. See 12.2, Limited Offer. (N)
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NOTE 2: FibreMAN® Grandfathered effective February 4, 2011. See 12.3, Limited Offer. (N)
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NOTE 1: MON Ring Grandfathered effective December 1, 2012. See 12.2, Limited Offer.

NOTE 2: FibreMAN® Service is withdrawn effective December 12, 2014.

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NOTE 1: MON Ring Grandfathered effective December 1, 2012. See 12.2, Limited Offer.

NOTE 2: FibreMAN® Service is withdrawn effective December 12, 2014.

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NOTE 1: MON Ring Grandfathered effective December 1, 2012. See 12.2, Limited Offer.

NOTE 2: FibreMAN® Service is withdrawn effective December 12, 2014.

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D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING

A. SERVICE DESCRIPTION

Multi-service Optical Network Ring (MON Ring) Service provides high volume optical transport utilizing multiplexing technology in a dedicated ring configuration. Multiple data signals are transmitted over fiber-optic cable using different wavelengths of light. Each of these wavelengths represents a transmission channel in the MON Ring system and is protocol independent of every other channel in the system.

MON Ring Service is only available within the Local Access and Transport Areas (LATAs) served by and within the service territories of the Utility.

MON Ring Service allows customers to combine their multiple data signals so that they can be amplified and transported over one network. MON Ring Service provides dedicated capacity over a single pair of fiber in two directions that increases capacity without limiting customer-required data interfaces.

MON Ring Service offers the following port interfaces:

IBM Protocols¹:

ESCONTM (200 Mbps) - Enterprise Systems Connection. An IBM duplex optical connection used for computer-to-computer data exchange. ESCONTM is limited to a maximum distance of 43 km and actual data throughput is distance sensitive. Offered as a Riding Circuit where facilities and equipment permit.

ESCONTM Sub Rate System (8:1)- provides a multiplexing system which allows customers to put up to eight (8) ESCONTM Channels (no other protocol) on one Port card. (ESCONTM protocol is defined in 12.2 (A) preceding.) Available where facilities and equipment permit.

ETR/CLOTM (8 Mbps - Manchester Encoded) - External Timing References/Control Link Oscillator. This protocol is used for IBM GDPSTM architecture for multiple-location host processors. ETR/CLOTM is limited to a maximum distance of 40 km.

FICONTM (1.0625 Gbps and 2.125 Gbps) - A higher-speed evolution of ESCONTM, enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. FICONTM is limited to a maximum distance of 100km and actual data throughput is distance sensitive.

ISC-1TM (1.0625 Gbps) - Inter-System Coupling. This protocol is used with IBM GDPSTM architecture for multiple-location host processors. ISC-1TM is limited to a maximum distance of 40 km.

ISC-3TM - ISC-3 links have a peak data rate of 2.125 Gbps and can interconnect IBMTM eServer z900 systems for distances up to 100 km.

NOTE 1: ESCONTM, ETR/CLOTM, FICONTM, ISC-1TM, ISC-3TM and GDPSTM are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

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12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

A. SERVICE DESCRIPTION (Cont'd)

MON Ring Service offers the following port interfaces: (Cont'd)

IBM Protocols¹ (Cont'd)

FICONTM Riding Service¹ - 1.0625 Gbps rate service capable of being multiplexed on the Gigabit Ethernet/Fibre Channel/FICONTM Sub-Rate System (2:1) port interface.

Other Protocols:

Fibre Channel (1.0625 Gbps and 2.125 Gbps) - an industry standard protocol used to interconnect Storage Area Networks (SANs). Fibre Channel is limited to a maximum distance of 100 km and actual data throughput is distance sensitive.

Fast Ethernet - a version of Ethernet that allows data transmission rates of 100 Mbps. (Offered as a Riding Circuit where facilities and equipment permit).

Gigabit Ethernet - a version of Ethernet that allows data transmission rates of 1 Gbps.

10 Gigabit Ethernet (WAN-PHY) - a version of Ethernet that allows data transmission rates of 9.953 - 10 Gbps with a WAN-PHY only interface.

D1 Video - uncompressed digital video signal operating at 270 Mbps. (Offered as a Riding Circuit where facilities and equipment permit).

SONET OC-3/OC-3c² - provides a fiber-based 155.52 Mbps synchronous optical full duplex data transmission capability. (Offered as a Riding Circuit where facilities and equipment permit).

SONET OC-12/OC-12c² - provides a fiber-based 622.08 Mbps synchronous optical full duplex data transmission capability.

SONET OC-48/OC-48c² - provides a fiber-based 2488.32 Mbps synchronous optical full duplex data transmission capability.

SONET OC-192/OC-192c² - provides a fiber-based 9953.28 Mbps synchronous optical full duplex data transmission capability.

Sub-Rate System - provides a multiplexing system operating at 1.25 Gbps with 4 ports. Applicable to ESCONTM, Fast Ethernet, D1 Video, DVB-ASI and (OC3/OC-3c) port interfaces. Sub-rate multiplexing is offered at the serving wire center only for OC3/OC-3c. Available where facilities and equipment permit.

NOTE 1: ESCONTM, ETR/CLOTM, FICONTM, ISC-1TM, ISC-3TM and GDPsTM are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

NOTE 2: These Port interfaces are available at the Customer Premise Node and the Serving Wire Center (SWC) Node. All other Port interfaces are available only at the Customer Premise Node.

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D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

A. SERVICE DESCRIPTION (Cont'd)

MON Ring Service offers the following port interfaces: (Cont'd)

Other Protocols: (Cont'd)

Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System (2:1) - provides a multiplexing system which allows customers to put up to two (2) Gigabit Ethernet (GigE) Channels or up to two (2) 1.0625 Gbps Fibre Channels or up to two (2) 1.0625 Gbps FICON™ Channels or any combination thereof totaling two channels on the sub rate system. Gigabit Ethernet, 1.0625 Gbps Fibre Channel and 1.0625 Gbps FICON™ protocols are defined in A. preceding. Fibre Channel and FICON™ at 2.125 Gbps rates cannot be placed on this sub-rate system. (T)

SONET OC-3/OC-3c/OC-12/OC-12c Sub-Rate system (4:1) provides a multiplexing system which allows customers to put up to either four OC-3/OC-3c signals and/or four OC-12/OC-12c signals or combinations thereof on one card. This sub-rate multiplexing system will have independent timing which allows multiple OC-3/OC-3c service or OC-12/OC-12c service on one sub-rate card. Available where facilities and equipment permit.

10 Gigabit Ethernet (LAN-PHY) - a version of Ethernet that allows data transmission rates of 10.3125 Gbps with LAN-PHY only interface.

SONET OC-12/OC-12c Riding Circuit - capable of being multiplexed on the OC3/12 Sub-rate system. Available where facilities and equipment permit.

Gigabit Ethernet Riding Service¹ - capable of being multiplexed on the Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System (2:1) port interface.

Fibre Channel Riding Service¹ - 1.0625 Gbps rate service capable of being multiplexed on the Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System (2:1) port interface.

SONET OC-48/OC-48c SONET Sub-Rate System 4:1 - provides a multiplexing system which allows customers to put up to four (4) OC-48 signals on one Port card. Available where facilities and equipment permit. (T)

SONET OC-48/OC-48c SONET Riding Circuit - capable of being multiplexed on the OC-48 SONET Sub-rate system. Available where facilities and equipment permit.

DVB-ASI - Digital Video Broadcasting - provides an 1310 nm optical interface at 270 Mbps. (Offered on a MON Ring provisioned with Cisco equipment). Offered as a Riding circuit where facilities and equipment permit.

NOTE 1: Gigabit Ethernet Riding Service, Fibre Channel Riding Service FICON™ Riding Service only available when ordered with Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System. Gigabit Ethernet, Fibre Channel and Gbps FICON™ services can also be ordered directly on MON Ring.

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D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

B. REGULATIONS

The regulations, rates and charges specified herein are in addition to other regulations, rates and charges as specified in this Schedule, Schedule Cal.P.U.C. No. 175-T and other Utility tariffs.

1. MON Ring Service provides physical layer transport only. The Utility assumes no responsibility for the data signals generated by the customer, for the quality of or defects in such data signals, for the reception of data signals by the customer, or address signaling to the extent addressing is performed by the customer. Error detection and correction of data generated by the customer is the customer's responsibility.
2. MON Ring Service is only available under a Term Payment Plan with a thirty-six month minimum service period. When a service is discontinued prior to the expiration of the minimum period, termination charges are applicable for the remaining portion of the minimum period, whether the service is used or not, and will be based on the rates in effect for the service at the time of discontinuance as set forth in F. following. (T)
3. The customer provided equipment must deliver the data signals for the MON Ring Service transport within the industry specification for the subscribed data services.
4. Credit Allowances for service interruptions for MON Ring Service are set forth in Schedule Cal.P.U.C. No. 175-T, Section 2.4 Credit Allowances for MON Ring Service.
5. MON Ring Service may have distance limitations based on the services carried and may require routing through Serving Wire Centers based on loss limits between nodes. Services with facility length limitations may not be available on some MON Rings, or may not be available between some Nodes on certain MON Rings.
6. Optical Amplifiers and/or regenerators may have to be added to a MON Ring Service subsequent to the initial installation.
7. The MON Ring customer must first order the MON Transport system followed by the MON channels. When ordering ESCON™, FDDI, Fast Ethernet, D1 Video, OC-3 ports, the customer must first order a MON Ring Channel sub-rate system over which these services will be assigned.

OC-12/OC-12c, Gigabit Ethernet, Fibre Channel and FICON™ at 1.0625 Gbps rates can be ordered directly on MON Ring, or as a riding service on a subrate system. Fibre Channel and FICON™ at 2.125 Gbps rates can only be ordered directly on MON Ring, and cannot be ordered on a subrate system. OC-12, Gigabit Ethernet, Fibre Channel and FICON™ at 1.0625 Gbps rates when ordered on a subrate system, are represented by different rate elements than those ordered directly on the MON Ring.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

B. REGULATIONS (Cont'd)

The regulations, rates and charges specified herein are in addition to other regulations, rates and charges as specified in this Schedule, Schedule Cal.P.U.C. No. 175-T and other Utility tariffs. (Cont'd)

8. When additional services are added, such installation may cause a service interruption to existing unprotected channels, or a protection switch on protected channels.

9. MON Ring Service will be offered in two configurations where facilities and equipment permit. Customers can purchase MON Ring with growth capacity up to 16 wavelengths or up to 32 wavelengths. The 32 wavelength systems may, at the discretion of the Utility, be built as two 16 wavelength systems sharing common fiber and some common equipment. Depending upon the configuration, conversion from a 16 Wavelength Ring to a 32 Wavelength Ring is not available.

10. MON Ring Service is provided within the same LATA at the option of the Utility where facilities and/or operating conditions permit. If appropriate facilities and/or operating conditions are not available, Special Construction charges, as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply.

(T)

11. Floor space for subsequent growth at a Central Office Node beyond the initial installation will be provided where available, but cannot be guaranteed for subsequent shelf growth beyond the initial installation.

12. Prior to confirming an order for service, the Utility will provide a proposed route diagram to the customer.

13. Installation of service will not begin until the customer has accepted the proposed routing by the Utility.

14. Services with time-delay sensitive protocols have facility length limitations and may affect the design/availability of MON Ring Service (e.g., CPU to CPU Communications have a maximum distance limitation of 60 Km). The Utility will work cooperatively with the customer to determine if the desired services can operate between the customer's designated premises.

(T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

B. REGULATIONS (Cont'd)

The regulations, rates and charges specified herein are in addition to other regulations, rates and charges as specified in this Schedule, Schedule Cal.P.U.C. No. 175-T and other Utility tariffs. (Cont'd)

15. Channel protection may not be available for all interface types.

16. MON Ring service is not available in a Meet-Point Billing configuration as described in Schedule Cal.P.U.C. No. 175-T, Sections 2.4.8 and 5.2.10.

17. Reserved

(T)

18. Conversions from any other lower speed service to Multi-service Optical Network Ring Service are not available.

19. Neither electrical interfaces nor optical add/drop multiplexing are available with this service.

20. Rules and Regulations as set forth in Schedule Cal.P.U.C. No. 175-T Access Service are applicable to MON Ring Service unless otherwise specified in this tariff.

21. The customer must first order the MON Ring Transport System followed by the MON Ring Channels. When ordering certain port interfaces requiring a sub-rate system, the customer must first order a MON Ring Channel Sub-Rate System over which these services will be assigned. When Riding Services are ordered on a sub-rate system, they are represented by different rate elements than those services ordered directly on the MON Ring.

(T)

22. Customers may not in-service convert from existing Fibre Channel, Gigabit Ethernet, FICON™ or OC-12 port interfaces to Fibre Channel Riding Service, Gigabit Ethernet Riding Service, FICON™ or OC-12 Riding Service. Requests for such changes will be treated as a disconnect and new connect of those respective interfaces, and Early Termination charges are applicable.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

C. SERVICE CONFIGURATION

Standard Configurations

MON Ring Service is available in different ring configurations utilizing central office nodes and customer premises nodes. The total number of circuits and total usable bandwidth to the customer depends upon the mix of services ordered and the specific traffic patterns of the customer. The Utility will determine the appropriate wavelength assignment and the design of the MON Ring.

(T)

The minimum configuration would be two customer nodes located at either a Utility Serving Wire Center or a customer premise location. If the customer Nodes are not located in a Utility Serving Wire Center, a central office management site for monitoring is required. An Optical Amplifier located at a Utility Serving Wire Center can be used as a monitoring location.

A combination of these configurations may be used in a network design depending on the customer's traffic pattern.

Continued

OTHER SERVICES

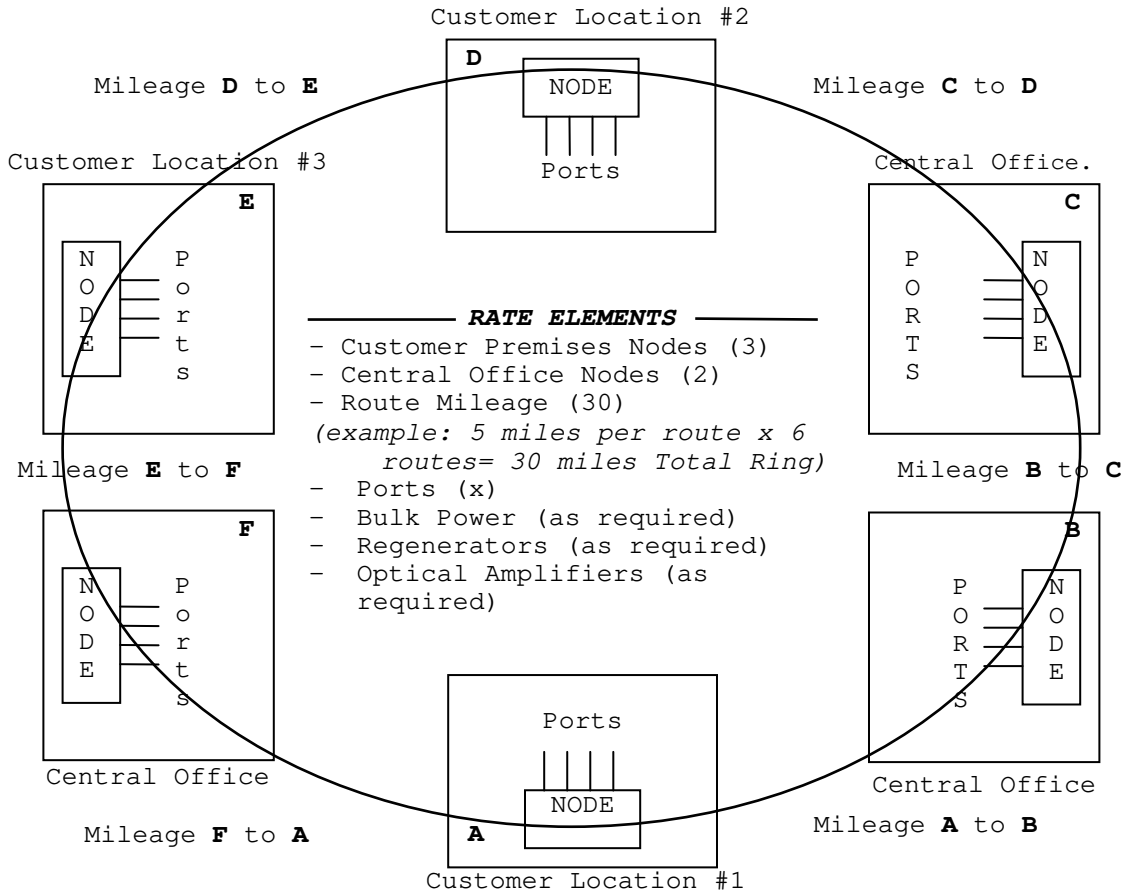
(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

C. SERVICE CONFIGURATION (Cont'd)

Diagram of MON Ring



Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

C. SERVICE CONFIGURATION (Cont'd)

2. Route Diversity

MON Ring service is configured with diversely routed fiber whenever possible. MON Ring service will be available for protected channels 99.999% of the time and protected channels will switch within 50 milliseconds (not to exceed 2 seconds). Equipment interfaces towards the customer are not protected. Unprotected channels will be lost in the event of a fiber path failure to which the circuit is assigned.

Routing of fiber may be diversified from the customer's property line to their Serving Wire Center or Alternate Wire Center as determined by the Utility where facilities and/or operating conditions permit, to ensure that loop fibers follow separate paths to the Serving Wire Center or Alternate Wire Center. In addition, the Interoffice Facility fiber paths may be diversely routed between Serving Wire Centers or Alternate Wire Centers, where facilities and/or operating conditions permit, to ensure that with any Central Office node, the fibers do not egress and ingress at the same location.

In the cases where the Serving Wire Center or Alternate Wire Center does not have multiple entrance fiber facilities, the section of the fiber from the closest manhole to the Serving Wire Center will be routed through the same duct structure.

Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply.

(T)

At the customer's request, additional protection to the customer premises nodes may be provided via diverse dual entrance facilities. This request will be considered Special Construction and charges for Special Construction as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply. Absent this request, diverse fiber will be provided to the closest manhole to the customer property line. The customer or building owner will be responsible for providing conduit from the property line to the building MPOE. The customer determines route and method of protection inside the premises.

(T)

In the case where dual entrance facilities are not established at the customer premises, facilities routed through the same duct structure from the property line to the building MPOE location are not considered diverse and route diversity has not been established.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

D. TECHNICAL SPECIFICATIONS

The customer interfaces to the MON Ring Service are as specified in:

(D)

<u>Subject</u>	<u>Technical Reference</u>
Ameritech LAN Interconnect Service - Token Ring Interface Specifications	AM TR-NIS-000100
Ameritech LAN Interconnect Service - CSMA/CD Interface Specifications	AM TR-NIS-000104
Ameritech OC-3, OC-12, OC-48 and OC-192 Service Interface Specifications	AM-TR-NIS-000111
Ameritech Digital Service Transmission Parameters	AM-TR-TMO-000101
Ameritech Service's Network Channel and Network Channel Interface Codes	AM-TR-TMO-000080
Ameritech Technical Interface Specifications (ESCON™)	AM-TR-NIS-000096 AM-TR-NIS-000107
IBM Documentation (ESCON™)	IBM SA22-7202-XX IBM SA23-0394-XX
Fibre Channel (also includes FICON™ and ISC™)	ANSI X3.T9.3
Fast Ethernet	ANSI/IEEE 802.3
GigaBit Ethernet	IEEE 802.3x and z IEEE 802.3ae
D1 Video	ANSI/SMPTE 259M

The Technical Reference can be obtained from:
APEX Help Desk
(517) 788-6872

The Telcordia Technologies Research Publication(s) can be obtained from:

Telcordia Technologies
8 Corporate Place
Piscataway, New Jersey 08854

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

D. TECHNICAL SPECIFICATIONS

The customer interfaces to the MON Ring Service are as specified in:

<u>Subject</u>	<u>Technical Reference</u>
Ameritech LAN Interconnect Service - Token Ring Interface Specifications	AM TR-NIS-000100
Ameritech LAN Interconnect Service - CSMA/CD Interface Specifications	AM TR-NIS-000104
Ameritech OC-3, OC-12, OC-48 and OC-192 Service Interface Specifications	AM-TR-NIS-000111
Ameritech Digital Service Transmission Parameters	AM-TR-TMO-000101
Ameritech Service's Network Channel and Network Channel Interface Codes	AM-TR-TMO-000080
Ameritech Technical Interface Specifications (ESCON™)	AM-TR-NIS-000096 AM-TR-NIS-000107
IBM Documentation (ESCON™)	IBM SA22-7202-XX IBM SA23-0394-XX ANSI X3.T9.3
Fibre Channel (also includes FICON™ and ISC™)	
Fast Ethernet	ANSI/IEEE 802.3
GigaBit Ethernet	IEEE 802.3x and z IEEE 802.3ae
D1 Video	ANSI/SMPTE 259M

The Technical Reference can be obtained from:

APEx Support Team
(734) 523-7348

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The Telcordia Technologies Research Publication(s) can be obtained from:

Telcordia Technologies
8 Corporate Place
Piscataway, New Jersey 08854

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

E. SERVICE COMPONENTS

Service Components

Customer Premises Nodes

Provides termination of the service at the customer's premises and presents the various selected ports to the customer.

Central Office Nodes

Provides for the termination for a service at a Utility Serving Wire Center.

Mileage

Provides for the transmission facilities between the Serving Wire Centers of each Node involved on the ring.

Optical Amplifiers

Provides for an optical signal boost if the distance between Nodes exceeds the transmission loss parameters (link loss specific). Engineering considerations may dictate the need for more than one optical amplifier on a circuit route depending upon the circuit configuration. These additions may be service affecting. Optical Amplifiers may be located at a Customer Premises Node, a Central Office Node or at a Utility Serving Wire Center.

Regenerators

Provides for re-timing, re-shaping and regeneration of the signal level if degradation exceeds the dispersion and/or Optical Amplifier noise limits.

Ports

Provides the channel interface at any Node location for each unprotected or protected channel.

Bulk Power

Provides for customer premises Node power which will be required if the customer's power source is AC.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

F. CREDIT ALLOWANCES FOR SERVICE INTERRUPTIONS

A credit allowance will be given for interruptions of Multi-service
Optical Network Ring service as set forth in Schedule Cal.P.U.C.
No. 175-T, Section 2.4.4.

(T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

G. RATE REGULATIONS

The following rate elements are applicable to Multi-service Optical Network Ring Service: (T)

Recurring Charges:

Customer Premises Nodes¹ - Applies per customer-designated premises, per first shelf and subsequent shelves. (T)

Central Office Nodes¹ - Applies per first shelf and subsequent shelves. (T)

Mileage

Provides for the transmission facilities between the Serving Wire Centers of each Node involved on the ring. Mileage is calculated using the V & H coordinate method described in Schedule Cal.P.U.C. No. 175-T, Section 7.4.6 and the National Exchange Carrier Association (NECA) Tariff FCC 4. A two Node ring configuration has a two mile minimum; one mile from the Serving Wire Center Node to the customer premises Node, and one mile from the customer premises Node to the Serving Wire Center Node. A one mile minimum will be billed between nodes. (T)

Minimum Mileage charges are applicable to Optical Amplifiers or Regenerators that are located in the same SWC as a CO or Premises Node.

Optical Amplifiers

Applied as needed

Regenerators

Provides for re-timing, re-shaping and regeneration of signals if degradation exceeds the dispersion or optical amplifier noise limits.

Provided on a per shelf basis for 2.5 Gigabit Ethernet Port interface and on a per circuit basis, per each location where the circuit is regenerated for 10 Gigabit Ethernet Port interface, as determined by the Utility.

Ports

Applied per Port card per circuit terminating location.

Bulk Power

Applies per first shelf, shelves one through four, and per fifth subsequent shelf, shelves five through eight.

NOTE 1: A minimum of 2 Nodes is required on a MON Ring.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

G. RATE REGULATIONS (Cont'd)

The following rate elements are applicable to Multi-service Optical Network Ring Service: (Cont'd)

Nonrecurring charges are applicable as follows:

(T)

Administrative Charge - Applies any time a customer initiates an order for service. This charge applies once per service order.

(T)

Design and Central Office Connection Charge - Applies to each service installed, modified and removed and is charged once per each circuit riding the MON Ring.

(T)

Customer Connection Charge - Applies as follows: 1) Service Establishment Charge for the MON Ring network, applied per Node; 2) Subsequent Installation, applied per each subsequent shelf installed after the MON Ring network is established.

(T)

(T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

G. RATE REGULATIONS (Cont'd)

Term Payment Plans

In addition to other regulations of this tariff, the following terms and conditions apply to Term Payment Plans:

1. Multi-service Optical Network Ring Service (MON Ring) is offered under a Term Payment Plan (TPP). The minimum service period for MON Ring is 36 months. MON Ring Service TPP provides the customer with discounted tariff rates for a 36 or 60-month period.
2. The monthly TPP rates are applicable for the new TPP are those currently in effect for new customers.
3. The customer may choose to terminate an existing TPP before the end of the three or five year plan and negotiate a new TPP. The new TPP term will be based upon the current rates that are in effect and must be of equal or greater duration than the existing TPP. No credit for months under the previous TPP may be transferred to the new TPP.
4. The customer must provide the Utility with a written notice of intent to renew a TPP no later than 90 days prior to its expiration. If a customer chooses to renew a TPP, the monthly rates for the new TPP selected are the current rates in effect for new customers. If the customer elects not to renew the TPP or does not notify the Utility of their intent to renew the TPP, the service will automatically be billed under the Monthly Extension Rates in effect at the time the TPP expires. Monthly Extension Rates are not available to new customers. At a later date, the customer may elect any TPP option currently in effect for new customers.
5. Any special construction charges incurred for service billed under a Term Pricing Plan will be applicable as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15.
6. After the expiration of 25 months of a 36-month TPP term or 42 months of a 60-month TPP term, any MON Ring components added to the existing service configuration provided under that TPP will be billed under the tariffed monthly extension rates.

(T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

G. RATE REGULATIONS (Cont'd)

Term Payment Plans (Cont'd)

In addition to other regulations of this tariff, the following terms and conditions apply to Term Payment Plans: (Cont'd)

7. If a customer terminates service before the completion of the term for any reason whatsoever other than as a result of renegotiation, the customer agrees to pay the Utility Termination Liability charges, which are defined below. These charges shall become due and owing as of the effective date of the cancellation or termination and be payable within the period set forth in Schedule Cal.P.U.C. No. 175-T, Section 2.4.1, (B) (3) (a). Payment of the Termination Charge does not release the customer from other previous amount owed to the Utility.

(T)

(T)

8. If during the duration of a TPP, the customer requests the rearrangement or move of a Customer Prem Node, a termination liability charge will apply for those associated rate elements. All other charges associated with rearrangements, as set forth in Schedule Cal.P.U.C. No. 175-T, Section 5.2 will apply.

9. In addition to any special construction liabilities, customer termination liability for cancellation of MON Ring service shall be equal to:

- All waived and/or unpaid nonrecurring charges, plus;
- Fifty percent (50%) of all recurring charges for the balance of the customer's term.

(T)

For purposes of applying MON Ring Termination Liability charges, Nodes, Ports, Regenerators, Amplifiers and Mileage are all Rate elements making up a MON Ring service and, therefore, subject to Early Termination Charges.

(T)

(T)

10. If the customer elects not to renew the TPP or does not notify the Utility of their intent to renew the TPP, the customer service will automatically be billed under the tariffed Monthly Extension Rate in effect at the time the TPP expires.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

- 12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)
G. RATE REGULATIONS (Cont'd)

Service Rearrangements

Rules for Service Rearrangements are set forth in Schedule Cal.P.U.C. No. 175-T, Section 5.2.8, and are applicable to Multi-service Optical Network Ring Service.

Modification of Access Service

Rules and regulations for Modifications to access service as set forth in Schedule Cal.P.U.C. No. 175-T, Section 5. are applicable to MON Ring service. (T)

Ordering Options and Conditions

Rules and regulations for Ordering Options and conditions as set forth in Schedule Cal.P.U.C. No. 175-T, Section 5. are applicable to MON Ring service. (T)

Moves

Moves of Nodes will be considered under the rules for Term Payment Plans and subject to Early Termination Liability as set forth in F. preceding.

Cancellation

Rules and regulations for Cancellation of an Access Order as set forth in Schedule Cal.P.U.C. No. 175-T, Section 5.2.3 are applicable to MON Ring service.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES

1. MON Transport System

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
a. Customer Premises Node		
- includes first shelf		
36 month	F2ND1/F2ND1	\$15,996.00
60 month	F2ND1/F2ND1	12,796.80
Monthly Extension	F2ND1/F2ND1	22,394.40
- per subsequent shelf		
36 month	F2NDS/F2NDS	11,997.00
60 month	F2NDS/F2NDS	9,597.60
Monthly Extension	F2NDS/F2NDS	16,795.80
b. Central Office Node		
- includes first shelf		
36 month	F2NC1/F2NC1	15,996.00
60 month	F2NC1/F2NC1	12,796.80
Monthly Extension	F2NC1/F2NC1	22,394.40
- per subsequent shelf		
36 month	F2NCS/F2NCS	11,997.00
60 month	F2NCS/F2NCS	9,597.60
Monthly Extension	F2NCS/F2NCS	16,795.80

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)

H. MAXIMUM RATES

1. MON Transport System

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>
a. Customer Premises Node		
- includes first shelf		
36 month	F2ND1/F2ND1	\$15,996.00
60 month	F2ND1/F2ND1	12,796.80
Monthly Extension	F2ND1/F2ND1	22,394.40
- per subsequent shelf		
36 month	F2NDS/F2NDS	11,997.00
60 month	F2NDS/F2NDS	9,597.60
Monthly Extension	F2NDS/F2NDS	16,795.80
b. Central Office Node		
- includes first shelf		
36 month	F2NC1/F2NC1	15,996.00
60 month	F2NC1/F2NC1	12,796.80
Monthly Extension	F2NC1/F2NC1	22,394.40
- per subsequent shelf		
36 month	F2NCS/F2NCS	11,997.00
60 month	F2NCS/F2NCS	9,597.60
Monthly Extension	F2NCS/F2NCS	16,795.80

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

1. MON Transport System (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
c. Mileage		
- per mile		
36 month		
0 miles	NA/NA	NA
Over 0 miles	1L5X3/1LAZX	\$666.50
60 month		
0 miles	NA/NA	NA
Over 0 miles	1L5X5/1LAZX	\$533.20
Monthly Extension		
0 miles	NA/NA	NA
Over 0 miles	1L5XS/1LAZX	\$933.10

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)
 1. MON Transport System (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>
c. Mileage		
- per mile		
36 month		
0 miles	NA/NA	NA
Over 0 miles	1L5X3/1LAZX	\$666.50
60 month		
0 miles	NA/NA	NA
Over 0 miles	1L5X5/1LAZX	\$533.20
Monthly Extension		
0 miles	NA/NA	NA
Over 0 miles	1L5XS/1LAZX	\$933.10

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

1. MON Transport System (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
d. Optical Amplifier - C Band		
- as required, per location		
36 month	67QXX/67QXX	\$ 7,198.20
60 month	67QXX/67QXX	4,798.80
Monthly Extension	67QXX/67QXX	10,130.80
Optical Amplifier - L Band ¹		
- as required, per location		
36 month	67QSX/67QSX	7,198.20
60 month	67QSX/67QSX	4,798.80
Monthly Extension	67QSX/67QSX	10,130.80
e. Regenerator		
- as required, up to 2.5 Gbps, per shelf		
36 month	V8RXX/V8RXX	9,997.50
60 month	V8RXX/V8RXX	6,665.00
Monthly Extension	V8RXX/V8RXX	13,996.50
- as required, up to 10 Gbps, per circuit		
36 month	V8R2C/V8R2C	19,995.00
60 month	V8R2C/V8R2C	13,330.00
Monthly Extension	V8R2C/V8R2C	27,993.00

NOTE 1: Only applicable where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)

H. MAXIMUM RATES (Cont'd)

1. MON Transport System (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>	
d. Optical Amplifier - C Band			
- as required, per location			
36 month	67QXX/67QXX	\$ 7,198.20	
60 month	67QXX/67QXX	4,798.80	
Monthly Extension	67QXX/67QXX	10,130.80	
Optical Amplifier - L Band ²			(T)
- as required, per location			
36 month	67QSX/67QSX	7,198.20	
60 month	67QSX/67QSX	4,798.80	
Monthly Extension	67QSX/67QSX	10,130.80	
e. Regenerator			
- as required, up to 2.5 Gbps, per shelf			
36 month	V8RXX/V8RXX	9,997.50	
60 month	V8RXX/V8RXX	6,665.00	
Monthly Extension	V8RXX/V8RXX	13,996.50	
- as required, up to 10 Gbps, per circuit			
36 month	V8R2C/V8R2C	19,995.00	
60 month	V8R2C/V8R2C	13,330.00	
Monthly Extension	V8R2C/V8R2C	27,993.00	

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)

NOTE 2: Only applicable where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

1. MON Transport System (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
f. Bulk Power		
- includes first shelf (shelves 1-4)		
36 month	CBVDX/CBVDX	\$2,666.00
60 month	CBVDX/CBVDX	2,132.80
Monthly Extension	CBVDX/CBVDX	3,465.80
- per subsequent shelf, per fifth subsequent shelf (shelves 5-8)		
36 month	CBVDS/CBVDS	2,132.80
60 month	CBVDS/CBVDS	1,732.90
Monthly Extension	CBVDS/CBVDS	2,799.30
2. Ports		
- per port/per circuit terminating location		
a. ETR/CLO™		
- unprotected channel		
36 month	POYKW/POYKW	1,299.68
60 month	POYKW/POYKW	999.75
Monthly Extension	POYKW/POYKW	1,866.20

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)

H. MAXIMUM RATES (Cont'd)

1. MON Transport System (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>
f. Bulk Power		
- includes first shelf (shelves 1-4)		
36 month	CBVDX/CBVDX	\$2,666.00
60 month	CBVDX/CBVDX	2,132.80
Monthly Extension	CBVDX/CBVDX	3,465.80
- per subsequent shelf, per fifth subsequent shelf (shelves 5-8)		
36 month	CBVDS/CBVDS	2,132.80
60 month	CBVDS/CBVDS	1,732.90
Monthly Extension	CBVDS/CBVDS	2,799.30
2. Ports		
- per port/per circuit terminating location		
a. ETR/CLO™		
- unprotected channel		
36 month	POYKW/POYKW	1,299.68
60 month	POYKW/POYKW	999.75
Monthly Extension	POYKW/POYKW	1,866.20

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
b. FICON™ (1.0625 Gbps)		
- unprotected channel		
36 month	POYMW/POYMW	\$1,299.68
60 month	POYMW/POYMW	999.75
Monthly Extension	POYMW/POYMW	1,866.20
- protected channel		
36 month	POYMP/POYMP	2,599.35
60 month	POYMP/POYMP	1,999.50
Monthly Extension	POYMP/POYMP	3,732.40
c. FICON™ (2.125 Gbps)		
- unprotected channel		
36 month	POYWW/POYWW	2,266.10
60 month	POYWW/POYWW	1,732.90
Monthly Extension	POYWW/POYWW	3,199.20
- protected channel		
36 month	POYWP/POYWP	4,532.20
60 month	POYWP/POYWP	3,465.80
Monthly Extension	POYWP/POYWP	6,398.40

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
b. FICON™ (1.0625 Gbps)		
- unprotected channel		
36 month	POYMW/POYMW	\$1,299.68
60 month	POYMW/POYMW	999.75
Monthly Extension	POYMW/POYMW	1,866.20
- protected channel		
36 month	POYMP/POYMP	2,599.35
60 month	POYMP/POYMP	1,999.50
Monthly Extension	POYMP/POYMP	3,732.40
c. FICON™ (2.125 Gbps)		
- unprotected channel		
36 month	POYWW/POYWW	2,266.10
60 month	POYWW/POYWW	1,732.90
Monthly Extension	POYWW/POYWW	3,199.20
- protected channel		
36 month	POYWP/POYWP	4,532.20
60 month	POYWP/POYWP	3,465.80
Monthly Extension	POYWP/POYWP	6,398.40

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
d. ISC-1™		
- unprotected channel		
36 month	POYJW/POYJW	\$4,332.25
60 month	POYJW/POYJW	1,666.25
Monthly Extension	POYJW/POYJW	6,131.80
- protected channel		
36 month	POYJP/POYJP	4,799.88
60 month	POYJP/POYJP	3,332.50
Monthly Extension	POYJP/POYJP	6,665.00
e. ISC-3™		
- unprotected channel		
36 month	POY9W/POY9W	\$ 4,998.75
60 month	POY9W/POY9W	3,332.50
Monthly Extension	POY9W/POY9W	6,665.88
- protected channel		
36 month	POY9P/POY9P	9,997.50
60 month	POY9P/POY9P	6,665.88
Monthly Extension	POY9P/POY9P	13,330.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
d. ISC-1 TM		
- unprotected channel		
36 month	POYJW/POYJW	\$4,332.25
60 month	POYJW/POYJW	1,666.25
Monthly Extension	POYJW/POYJW	6,131.80
- protected channel		
36 month	POYJP/POYJP	4,799.88
60 month	POYJP/POYJP	3,332.50
Monthly Extension	POYJP/POYJP	6,665.00
e. ISC-3 TM		
- unprotected channel		
36 month	POY9W/POY9W	\$ 4,998.75
60 month	POY9W/POY9W	3,332.50
Monthly Extension	POY9W/POY9W	6,665.88
- protected channel		
36 month	POY9P/POY9P	9,997.50
60 month	POY9P/POY9P	6,665.88
Monthly Extension	POY9P/POY9P	13,330.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
f. Fibre Channel (1.0625 Gbps)		
- unprotected channel		
36 month	POYNW/POYNW	\$1,599.60
60 month	POYNW/POYNW	1,199.70
Monthly Extension	POYNW/POYNW	2,266.10
- protected channel		
36 month	POYNP/POYNP	3,199.20
60 month	POYNP/POYNP	2,399.40
Monthly Extension	POYNP/POYNP	4,532.20
g. Fibre Channel (2.125 Gbps)		
- unprotected channel		
36 month	POYYW/POYYW	2,266.10
60 month	POYYW/POYYW	1,732.90
Monthly Extension	POYYW/POYYW	3,199.20
- protected channel		
36 month	POYYP/POYYP	4,532.20
60 month	POYYP/POYYP	3,465.80
Monthly Extension	POYYP/POYYP	6,398.40

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
f. Fibre Channel (1.0625 Gbps)		
- unprotected channel		
36 month	POYNW/POYNW	\$1,599.60
60 month	POYNW/POYNW	1,199.70
Monthly Extension	POYNW/POYNW	2,266.10
- protected channel		
36 month	POYNP/POYNP	3,199.20
60 month	POYNP/POYNP	2,399.40
Monthly Extension	POYNP/POYNP	4,532.20
g. Fibre Channel (2.125 Gbps)		
- unprotected channel		
36 month	POYYW/POYYW	2,266.10
60 month	POYYW/POYYW	1,732.90
Monthly Extension	POYYW/POYYW	3,199.20
- protected channel		
36 month	POYYP/POYYP	4,532.20
60 month	POYYP/POYYP	3,465.80
Monthly Extension	POYYP/POYYP	6,398.40

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
h. Gigabit Ethernet		
- unprotected channel		
36 month	POYLW/POYLW	\$ 1,599.60
60 month	POYLW/POYLW	1,199.70
Monthly Extension	POYLW/POYLW	2,266.10
- protected channel		
36 month	POYLP/POYLP	3,199.20
60 month	POYLP/POYLP	2,399.40
Monthly Extension	POYLP/POYLP	4,532.20
i. 10 (Ten) Gigabit Ethernet (WAN PHY)		
- unprotected channel		
36 month	POYTW/POYTW	19,995.00
60 month	POYTW/POYTW	16,662.50
Monthly Extension	POYTW/POYTW	27,993.00
- protected channel		
36 month	POYTP/POYTP	26,660.00
60 month	POYTP/POYTP	22,261.10
Monthly Extension	POYTP/POYTP	37,324.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
h. Gigabit Ethernet		
- unprotected channel		
36 month	POYLW/POYLW	\$ 1,599.60
60 month	POYLW/POYLW	1,199.70
Monthly Extension	POYLW/POYLW	2,266.10
- protected channel		
36 month	POYLP/POYLP	3,199.20
60 month	POYLP/POYLP	2,399.40
Monthly Extension	POYLP/POYLP	4,532.20
i. 10 (Ten) Gigabit Ethernet (WAN PHY)		
- unprotected channel		
36 month	POYTW/POYTW	19,995.00
60 month	POYTW/POYTW	16,662.50
Monthly Extension	POYTW/POYTW	27,993.00
- protected channel		
36 month	POYTP/POYTP	26,660.00
60 month	POYTP/POYTP	22,261.10
Monthly Extension	POYTP/POYTP	37,324.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
j. SONET OC-12/OC-12c		
- unprotected channel		
36 month	POYFW/POYFW	\$1,732.90
60 month	POYFW/POYFW	1,333.00
Monthly Extension	POYFW/POYFW	2,532.70
- protected channel		
36 month	POYFP/POYFP	3,465.80
60 month	POYFP/POYFP	2,666.00
Monthly Extension	POYFP/POYFP	4,932.10
k. SONET OC-48/OC-48c		
- unprotected channel		
36 month	POYGW/POYGW	5,865.20
60 month	POYGW/POYGW	4,932.10
Monthly Extension	POYGW/POYGW	7,998.00
- protected channel		
36 month	POYGP/POYGP	8,797.80
60 month	POYGP/POYGP	7,411.48
Monthly Extension	POYGP/POYGP	11,997.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
j. SONET OC-12/OC-12c		
- unprotected channel		
36 month	POYFW/POYFW	\$1,732.90
60 month	POYFW/POYFW	1,333.00
Monthly Extension	POYFW/POYFW	2,532.70
- protected channel		
36 month	POYFP/POYFP	3,465.80
60 month	POYFP/POYFP	2,666.00
Monthly Extension	POYFP/POYFP	4,932.10
k. SONET OC-48/OC-48c		
- unprotected channel		
36 month	POYGW/POYGW	5,865.20
60 month	POYGW/POYGW	4,932.10
Monthly Extension	POYGW/POYGW	7,998.00
- protected channel		
36 month	POYGP/POYGP	8,797.80
60 month	POYGP/POYGP	7,411.48
Monthly Extension	POYGP/POYGP	11,997.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
1. SONET OC-192/OC-192c		
- unprotected channel		
36 month	POYOW/POYOW	\$19,995.00
60 month	POYOW/POYOW	16,662.50
Monthly Extension	POYOW/POYOW	27,993.00
- protected channel		
36 month	POYOP/POYOP	26,660.00
60 month	POYOP/POYOP	22,261.10
Monthly Extension	POYOP/POYOP	37,324.00
m. 10 Gigabit Ethernet (LAN-PHY)		
- unprotected channel		
36 month	POYUW/POYUW	20,491.88
60 month	POYUW/POYUW	17,082.40
Monthly Extension	POYUW/POYUW	28,692.83
- protected channel		
36 month	POYUP/POYUP	27,326.96
60 month	POYUP/POYUP	22,820.96
Monthly Extension	POYUP/POYUP	38,257.00
n. DVB ASI ¹		
- unprotected channel		
36 month	POY8W/POY8W	2,799.30
60 month	POY8W/POY8W	2,199.45
Monthly Extension	POY8W/POY8W	4,098.98
- protected channel		
36 month	POY8P/POY8P	5,598.60
60 month	POY8P/POY8P	4,398.90
Monthly Extension	POY8P/POY8P	7,698.08

NOTE 1: Only available where facilities and equipment permit beginning November 30, 2005.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
1. SONET OC-192/OC-192c		
- unprotected channel		
36 month	POYOW/POYOW	\$19,995.00
60 month	POYOW/POYOW	16,662.50
Monthly Extension	POYOW/POYOW	27,993.00
- protected channel		
36 month	POYOP/POYOP	26,660.00
60 month	POYOP/POYOP	22,261.10
Monthly Extension	POYOP/POYOP	37,324.00
m. 10 Gigabit Ethernet (LAN-PHY)		
- unprotected channel		
36 month	POYUW/POYUW	20,491.88
60 month	POYUW/POYUW	17,082.40
Monthly Extension	POYUW/POYUW	28,692.83
- protected channel		
36 month	POYUP/POYUP	27,326.96
60 month	POYUP/POYUP	22,820.96
Monthly Extension	POYUP/POYUP	38,257.00
n. DVB ASI ² (T)		
- unprotected channel		
36 month	POY8W/POY8W	2,799.30
60 month	POY8W/POY8W	2,199.45
Monthly Extension	POY8W/POY8W	4,098.98
- protected channel		
36 month	POY8P/POY8P	5,598.60
60 month	POY8P/POY8P	4,398.90
Monthly Extension	POY8P/POY8P	7,698.08

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N)
 preceding. (N)

NOTE 2: Only available where facilities and equipment permit beginning (T)
 November 30, 2005.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
o. ESCON™ ¹		
- unprotected channel		
36 month	PWY1W/PWY1W	\$1,732.90
60 month	PWY1W/PWY1W	1,333.00
Monthly Extension	PWY1W/PWY1W	2,532.70
- protected channel		
36 month	PWY1P/PWY1P	3,465.80
60 month	PWY1P/PWY1P	2,666.00
Monthly Extension	PWY1P/PWY1P	4,932.10
p. Fast Ethernet ¹		
- unprotected channel		
36 month	PWY2W/PWY2W	\$1,732.90
60 month	PWY2W/PWY2W	1,333.00
Monthly Extension	PWY2W/PWY2W	2,532.70
- protected channel		
36 month	PWY2P/PWY2P	3,465.80
60 month	PWY2P/PWY2P	2,666.00
Monthly Extension	PWY2P/PWY2P	4,932.10

NOTE 1: Only available where facilities and equipment permit beginning November 30, 2005.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
o. ESCON TM 1		
- unprotected channel		
36 month	PWY1W/PWY1W	\$1,732.90
60 month	PWY1W/PWY1W	1,333.00
Monthly Extension	PWY1W/PWY1W	2,532.70
- protected channel		
36 month	PWY1P/PWY1P	3,465.80
60 month	PWY1P/PWY1P	2,666.00
Monthly Extension	PWY1P/PWY1P	4,932.10
p. Fast Ethernet ² (T)		
- unprotected channel		
36 month	PWY2W/PWY2W	\$1,732.90
60 month	PWY2W/PWY2W	1,333.00
Monthly Extension	PWY2W/PWY2W	2,532.70
- protected channel		
36 month	PWY2P/PWY2P	3,465.80
60 month	PWY2P/PWY2P	2,666.00
Monthly Extension	PWY2P/PWY2P	4,932.10

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)

NOTE 2: Only available where facilities and equipment permit beginning November 30, 2005. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
q. D1 Video ¹		
- unprotected channel		
36 month	PWY3W/PWY3W	\$1,732.90
60 month	PWY3W/PWY3W	1,333.00
Monthly Extension	PWY3W/PWY3W	2,532.70
- protected channel		
36 month	PWY3P/PWY3P	3,465.80
60 month	PWY3P/PWY3P	2,666.00
Monthly Extension	PWY3P/PWY3P	4,932.10
r. SONET OC-3/OC-3c ¹		
- unprotected channel		
36 month	PWY4W/PWY4W	\$1,732.90
60 month	PWY4W/PWY4W	1,333.00
Monthly Extension	PWY4W/PWY4W	2,532.70
- protected channel		
36 month	PWY4P/PWY4P	3,465.80
60 month	PWY4P/PWY4P	2,666.00
Monthly Extension	PWY4P/PWY4P	4,932.10

NOTE 1: Only applicable where facilities and equipment permit beginning November 30, 2005.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
q. D1 Video ²		(T)
- unprotected channel		
36 month	PWY3W/PWY3W	\$1,732.90
60 month	PWY3W/PWY3W	1,333.00
Monthly Extension	PWY3W/PWY3W	2,532.70
- protected channel		
36 month	PWY3P/PWY3P	3,465.80
60 month	PWY3P/PWY3P	2,666.00
Monthly Extension	PWY3P/PWY3P	4,932.10
r. SONET OC-3/OC-3c ²		(T)
- unprotected channel		
36 month	PWY4W/PWY4W	\$1,732.90
60 month	PWY4W/PWY4W	1,333.00
Monthly Extension	PWY4W/PWY4W	2,532.70
- protected channel		
36 month	PWY4P/PWY4P	3,465.80
60 month	PWY4P/PWY4P	2,666.00
Monthly Extension	PWY4P/PWY4P	4,932.10

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)

NOTE 2: Only applicable where facilities and equipment permit beginning November 30, 2005. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System		
(1) Sub-Rate System ³		
- unprotected channel		
36 month	POYSW/POYSW	\$1,732.90
60 month	POYSW/POYSW	1,333.00
Monthly Extension	POYSW/POYSW	2,532.70
- protected channel		
36 month	POYSP/POYSP	3,465.80
60 month	POYSP/POYSP	2,666.00
Monthly Extension	POYSP/POYSP	4,932.10
(2) ESCON™ Riding Circuit ^{1,2,3}		
- unprotected channel		
36 month	POYHW/POYHW	133.30
60 month	POYHW/POYHW	133.30
Monthly Extension	POYHW/POYHW	199.95
- protected channel		
36 month	POYHP/POYHP	133.30
60 month	POYHP/POYHP	133.30
Monthly Extension	POYHP/POYHP	199.95

NOTE 1: Only available with Sub-Rate System.

NOTE 2: Also available with ESCON Sub-Rate System 8:1.

NOTE 3: Only applicable where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System		
(1) Sub-Rate System ⁴		(T)
- unprotected channel		
36 month	POYSW/POYSW	\$1,732.90
60 month	POYSW/POYSW	1,333.00
Monthly Extension	POYSW/POYSW	2,532.70
- protected channel		
36 month	POYSP/POYSP	3,465.80
60 month	POYSP/POYSP	2,666.00
Monthly Extension	POYSP/POYSP	4,932.10
(2) ESCON TM Riding Circuit ^{2,3,4}		(T)
- unprotected channel		
36 month	POYHW/POYHW	133.30
60 month	POYHW/POYHW	133.30
Monthly Extension	POYHW/POYHW	199.95
- protected channel		
36 month	POYHP/POYHP	133.30
60 month	POYHP/POYHP	133.30
Monthly Extension	POYHP/POYHP	199.95

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 NOTE 2: Only available with Sub-Rate System (N)
 NOTE 3: Also available with ESCON Sub-Rate System 8:1. (T)
 NOTE 4: Only applicable where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(3) Fast Ethernet Riding Circuit ^{1,2}		
- unprotected channel		
36 month	POYCW/POYCW	\$433.23
60 month	POYCW/POYCW	333.25
Monthly Extension	POYCW/POYCW	533.20
- protected channel		
36 month	POYCP/POYCP	666.50
60 month	POYCP/POYCP	533.20
Monthly Extension	POYCP/POYCP	866.45
(4) D1 Video Riding Circuit ^{1,2}		
- unprotected channel		
36 month	POYVW/POYVW	133.30
60 month	POYVW/POYVW	133.30
Monthly Extension	POYVW/POYVW	199.95
- protected channel		
36 month	POYVP/POYVP	133.30
60 month	POYVP/POYVP	133.30
Monthly Extension	POYVP/POYVP	199.95

NOTE 1: Only available with Sub-Rate System.

NOTE 2: Offered as Riding Circuit where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(3) Fast Ethernet Riding Circuit ^{2,3}		(T)
- unprotected channel		
36 month	POYCW/POYCW	\$433.23
60 month	POYCW/POYCW	333.25
Monthly Extension	POYCW/POYCW	533.20
- protected channel		
36 month	POYCP/POYCP	666.50
60 month	POYCP/POYCP	533.20
Monthly Extension	POYCP/POYCP	866.45
(4) D1 Video Riding Circuit ^{2,3}		(T)
- unprotected channel		
36 month	POYVW/POYVW	133.30
60 month	POYVW/POYVW	133.30
Monthly Extension	POYVW/POYVW	199.95
- protected channel		
36 month	POYVP/POYVP	133.30
60 month	POYVP/POYVP	133.30
Monthly Extension	POYVP/POYVP	199.95

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)
 NOTE 2: Only available with Sub-Rate System. (T)
 NOTE 3: Offered as Riding Circuit where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(5) SONET OC-3/OC-3c Riding Circuit		
- unprotected channel		
36 month	POYEW/POYEW	\$133.30
60 month	POYEW/POYEW	133.30
Monthly Extension	POYEW/POYEW	199.95
- protected channel		
36 month	POYEP/POYEP	133.30
60 month	POYEP/POYEP	133.30
Monthly Extension	POYEP/POYEP	199.95

NOTE 1: Only available with Sub-rate System.

NOTE 2: Offered as Riding Circuit where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(5) SONET OC-3/OC-3c Riding Circuit ^{2,3}		(T) z
- unprotected channel		
36 month	POYEW/POYEW	\$133.30
60 month	POYEW/POYEW	133.30
Monthly Extension	POYEW/POYEW	199.95
- protected channel		
36 month	POYEP/POYEP	133.30
60 month	POYEP/POYEP	133.30
Monthly Extension	POYEP/POYEP	199.95

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)

NOTE 2: Only available with Sub-rate System. (T)

NOTE 3: Offered as Riding Circuit where facilities and equipment permit. (T)

z: Correction

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(6) ESCON™ Sub-Rate System 8:1 ^{1,2}		
- unprotected channel		
36 month	POY2W/POY2W	\$1,999.50
60 month	POY2W/POY2W	1,499.63
Monthly Extension	POY2W/POY2W	2,599.35
- protected channel		
36 month	POY2P/POY2P	3,999.00
60 month	POY2P/POY2P	2,999.25
Monthly Extension	POY2P/POY2P	5,198.70

NOTE 1: Only available with Sub-rate System.

NOTE 2: Only available where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(6) ESCON TM Sub-Rate System 8:1 ^{2,3}		(T)
- unprotected channel		
36 month	POY2W/POY2W	\$1,999.50
60 month	POY2W/POY2W	1,499.63
Monthly Extension	POY2W/POY2W	2,599.35
- protected channel		
36 month	POY2P/POY2P	3,999.00
60 month	POY2P/POY2P	2,999.25
Monthly Extension	POY2P/POY2P	5,198.70

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)

NOTE 2: Only available with Sub-rate System. (T)

NOTE 3: Only available where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(7) Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System (2:1)		
- unprotected channel		(T)
36 month	POY1W/POY1W	\$1,166.38
60 month	POY1W/POY1W	933.10
Monthly Extension	POY1W/POY1W	1,519.62
- protected channel		
36 month	POY1P/POY1P	2,332.75
60 month	POY1P/POY1P	1,866.20
Monthly Extension	POY1P/POY1P	3,039.24
(a) Gigabit Ethernet Riding Circuit ¹		
- unprotected channel		
36 month	POY4W/POY4W	719.82
60 month	POY4W/POY4W	533.20
Monthly Extension	POY4W/POY4W	866.45
- protected channel		
36 month	POY4P/POY4P	1,333.00
60 month	POY4P/POY4P	1,066.40
Monthly Extension	POY4P/POY4P	1,732.90
(b) Fibre Channel Riding Circuit ¹ (for 1.0625 Gbps only)		
- unprotected channel		
36 month	POY6W/POY6W	666.50
60 month	POY6W/POY6W	533.20
Monthly Extension	POY6W/POY6W	866.45
- protected channel		
36 month	POY6P/POY6P	1,333.00
60 month	POY6P/POY6P	1,066.40
Monthly Extension	POY6P/POY6P	1,732.90

NOTE 1: Gigabit Ethernet and Fibre Channel Riding Services only available when ordered with Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System as set forth in B.7. preceding.

(T)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		

s. Sub-Rate System (Cont'd)

(7) Gigabit Ethernet/Fibre Channel/FICONTM Sub-Rate System (2:1)

- unprotected channel

36 month	POY1W/POY1W	\$1,166.38
60 month	POY1W/POY1W	933.10
Monthly Extension	POY1W/POY1W	1,519.62

- protected channel

36 month	POY1P/POY1P	2,332.75
60 month	POY1P/POY1P	1,866.20
Monthly Extension	POY1P/POY1P	3,039.24

(a) Gigabit Ethernet Riding Circuit² (T)

- unprotected channel

36 month	POY4W/POY4W	719.82
60 month	POY4W/POY4W	533.20
Monthly Extension	POY4W/POY4W	866.45

- protected channel

36 month	POY4P/POY4P	1,333.00
60 month	POY4P/POY4P	1,066.40
Monthly Extension	POY4P/POY4P	1,732.90

(b) Fibre Channel Riding Circuit² (for 1.0625 Gbps only) (T)

- unprotected channel

36 month	POY6W/POY6W	666.50
60 month	POY6W/POY6W	533.20
Monthly Extension	POY6W/POY6W	866.45

- protected channel

36 month	POY6P/POY6P	1,333.00
60 month	POY6P/POY6P	1,066.40
Monthly Extension	POY6P/POY6P	1,732.90

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N)
 preceding. (N)

NOTE 2: Gigabit Ethernet and Fibre Channel Riding Services only available when (T)
 ordered with Gigabit Ethernet/Fibre Channel/FICONTM Sub-Rate System as
 set forth in B.7. preceding.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(7) Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System (2:1) (Cont'd)		
(c) FICON™ Riding Circuit ¹ (for 1.0625 Gbps only)		
- unprotected channel		
36 month	POY7W/POY7W	\$ 533.20
60 month	POY7W/POY7W	426.56
Monthly Extension	POY7W/POY7W	639.84
- protected channel		
36 month	POY7P/POY7P	1,066.40
60 month	POY7P/POY7P	853.12
Monthly Extension	POY7P/POY7P	1,279.68
(8) OC-3/OC-12 Sub Rate System (4:1) ²		
- unprotected channel		
36 month	POY3W/POY3W	1,333.00
60 month	POY3W/POY3W	999.75
Monthly Extension	POY3W/POY3W	1,732.90
- protected channel		
36 month	POY3P/POY3P	2,666.00
60 month	POY3P/POY3P	1,999.50
Monthly Extension	POY3P/POY3P	3,465.80

NOTE 1: FICON™ Riding Circuit only available when ordered with Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System as set forth in B.7. preceding.

(T)

NOTE 2: Only applicable where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(7) Gigabit Ethernet/Fibre Channel/FICON TM Sub-Rate System (2:1) (Cont'd)		
(c) FICON TM Riding Circuit ² (for 1.0625 Gbps only) (T)		
- unprotected channel		
36 month	POY7W/POY7W	\$ 533.20
60 month	POY7W/POY7W	426.56
Monthly Extension	POY7W/POY7W	639.84
- protected channel		
36 month	POY7P/POY7P	1,066.40
60 month	POY7P/POY7P	853.12
Monthly Extension	POY7P/POY7P	1,279.68
(8) OC-3/OC-12 Sub Rate System (4:1) ³ (T)		
- unprotected channel		
36 month	POY3W/POY3W	1,333.00
60 month	POY3W/POY3W	999.75
Monthly Extension	POY3W/POY3W	1,732.90
- protected channel		
36 month	POY3P/POY3P	2,666.00
60 month	POY3P/POY3P	1,999.50
Monthly Extension	POY3P/POY3P	3,465.80

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)

NOTE 2: FICONTM Riding Circuit only available when ordered with Gigabit Ethernet/Fibre Channel/FICONTM Sub-Rate System as set forth in B.7. preceding. (T)

NOTE 3: Only applicable where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(9) SONET OC-12/OC-12c Riding Circuit ^{1,2}		
- unprotected channel		
36 month	POY5W/POY5W	\$ 666.50
60 month	POY5W/POY5W	499.88
Monthly Extension	POY5W/POY5W	933.10
- protected channel		
36 month	POY5P/POY5P	1,333.00
60 month	POY5P/POY5P	999.75
Monthly Extension	POY5P/POY5P	1,866.20

NOTE 1: SONET OC-12/OC-12c Riding Circuit only available when ordered with OC-3/OC-3c/OC-12/OC-12c Sub-Rate System as set forth in B.7. preceding.

(T)

NOTE 2: Only applicable where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(9) SONET OC-12/OC-12c Riding Circuit ^{2,3}		(T)
- unprotected channel		
36 month	POY5W/POY5W	\$ 666.50
60 month	POY5W/POY5W	499.88
Monthly Extension	POY5W/POY5W	933.10
- protected channel		
36 month	POY5P/POY5P	1,333.00
60 month	POY5P/POY5P	999.75
Monthly Extension	POY5P/POY5P	1,866.20

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N)
 preceding. (N)
 NOTE 2: SONET OC-12/OC-12c Riding Circuit only available when ordered with (T)
 OC-3/OC-3c/OC-12/OC-12c Sub-Rate System as set forth in B.7. (T)
 preceding.
 NOTE 3: Only applicable where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(10) SONET OC-48/OC-48c SONET Sub-Rate System 4:1 ¹		
- unprotected channel		
36 month	POYRW/POYRW	\$ 4,665.50
60 month	POYRW/POYRW	3,665.75
Monthly Extension	POYRW/POYRW	5,665.25
- protected channel		
36 month	POYRP/POYRP	9,331.00
60 month	POYRP/POYRP	7,331.50
Monthly Extension	POYRP/POYRP	11,330.50
(a) SONET OC-4/OC-48c Riding Circuit ²		
- unprotected		
36 month	POYZW/POYZW	\$2,532.70
60 month	POYZW/POYZW	1,599.60
Monthly Extension	POYZW/POYZW	3,732.40
- protected channel		
36 month	POYZP/POYZP	5,065.40
60 month	POYZP/POYZP	3,199.20
Monthly Extension	POYZP/POYZP	7,464.80

NOTE 1: Only applicable on a MON Ring provisioned with Cisco equipment.
 NOTE 2: Offered as Riding Circuit where facilities and equipment permit beginning November 30, 2005.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(10) SONET OC-48/OC-48c SONET Sub-Rate System 4:1 ²		(T)
- unprotected channel		
36 month	POYRW/POYRW	\$ 4,665.50
60 month	POYRW/POYRW	3,665.75
Monthly Extension	POYRW/POYRW	5,665.25
- protected channel		
36 month	POYRP/POYRP	9,331.00
60 month	POYRP/POYRP	7,331.50
Monthly Extension	POYRP/POYRP	11,330.50
(a) SONET OC-4/OC-48c Riding Circuit ³		(T)
- unprotected		
36 month	POYZW/POYZW	\$2,532.70
60 month	POYZW/POYZW	1,599.60
Monthly Extension	POYZW/POYZW	3,732.40
- protected channel		
36 month	POYZP/POYZP	5,065.40
60 month	POYZP/POYZP	3,199.20
Monthly Extension	POYZP/POYZP	7,464.80

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)
 NOTE 2: Only applicable on a MON Ring provisioned with Cisco equipment. (T)
 NOTE 3: Offered as Riding Circuit where facilities and equipment permit (T) beginning November 30, 2005.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Maximum</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(11) DVB ASI (Riding Circuit) ¹		
- unprotected channel		
36 month	PWY5W/PWY5W	\$133.30
60 month	PWY5W/PWY5W	133.30
Monthly Extension	PWY5W/PWY5W	199.95
- protected channel		
36 month	PWY5P/PWY5P	133.30
60 month	PWY5P/PWY5P	133.30
Monthly Extension	PWY5P/PWY5P	199.95

NOTE 1: Offered as a Riding Circuit where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Maximum Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(11) DVB ASI (Riding Circuit) ²		(T)
- unprotected channel		
36 month	PWY5W/PWY5W	\$133.30
60 month	PWY5W/PWY5W	133.30
Monthly Extension	PWY5W/PWY5W	199.95
- protected channel		
36 month	PWY5P/PWY5P	133.30
60 month	PWY5P/PWY5P	133.30
Monthly Extension	PWY5P/PWY5P	199.95

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)

NOTE 2: Offered as a Riding Circuit where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

H. MAXIMUM RATES (Cont'd)

3. Non Recurring Charges

	<u>USOC CRIS/CABS</u>	<u>Maximum Nonrecurring Charge</u>	
a. Administrative Charge			
- per service order	ORCMX/ORCMX	\$ 166.63	
b. Design and Central Office Connection Charge			
- per circuit	NRBCL/NRMCK	799.80	
c. Customer Connection Charge			
- Service Establishment ¹			
per node	NRBBL/NRBBL	9,997.50	
- Subsequent installation ² (Riding Services only)			(T)
per subsequent shelf	NHCNL/NHCNL	1,333.00	

NOTE 1: Applies to establish the MON Network.

NOTE 2: Applies to every riding service circuit after MON Network established.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. MAXIMUM RATES (Cont'd)

3. Non Recurring Charges

	<u>USOC CRIS/CABS</u>	<u>Maximum Nonrecurring Charge</u>	
a. Administrative Charge			
- per service order	ORCMX/ORCMX	\$ 166.63	
b. Design and Central Office Connection Charge			
- per circuit	NRBCL/NRMCK	799.80	
c. Customer Connection Charge			
- Service Establishment ²			(T)
per node	NRBBL/NRBBL	9,997.50	
- Subsequent installation ³ (Riding Services only)			(T)
per subsequent shelf	NHCNL/NHCNL	1,333.00	

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 NOTE 2: Applies to establish the MON Ring Network. (T)
 NOTE 3: Applies to every riding service circuit after MON Ring Network established. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES

1. MON Transport System

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
a. Customer Premises Node		
- includes first shelf		
36 month	F2ND/F2ND1	\$ 7,800.00
60 month	F2ND/F2ND1	6,240.00
Monthly Extension	F2ND/F2ND1	10,920.00
- per subsequent shelf		
36 month	F2NDS/F2NDS	5,850.00
60 month	F2NDS/F2NDS	4,680.00
Monthly Extension	F2NDS/F2NDS	8,190.00
b. Central Office Node		
- includes first shelf		
36 month	F2NC1/F2NC1	7,800.00
60 month	F2NC1/F2NC1	6,240.00
Monthly Extension	F2NC1/F2NC1	10,920.00
- per subsequent shelf		
36 month	F2NCS/F2NCS	5,850.00
60 month	F2NCS/F2NCS	4,680.00
Monthly Extension	F2NCS/F2NCS	8,190.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)

I. CURRENT RATES

1. MON Transport System

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
a. Customer Premises Node		
- includes first shelf		
36 month	F2ND/F2ND1	\$ 7,800.00
60 month	F2ND/F2ND1	6,240.00
Monthly Extension	F2ND/F2ND1	10,920.00
- per subsequent shelf		
36 month	F2NDS/F2NDS	5,850.00
60 month	F2NDS/F2NDS	4,680.00
Monthly Extension	F2NDS/F2NDS	8,190.00
b. Central Office Node		
- includes first shelf		
36 month	F2NC1/F2NC1	7,800.00
60 month	F2NC1/F2NC1	6,240.00
Monthly Extension	F2NC1/F2NC1	10,920.00
- per subsequent shelf		
36 month	F2NCS/F2NCS	5,850.00
60 month	F2NCS/F2NCS	4,680.00
Monthly Extension	F2NCS/F2NCS	8,190.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

1. MON Transport System (Cont'd)

c. Mileage	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
- per mile		
36 month		
0 miles	NA/NA	NA
Over 0 miles	1L5X3/1LAZX	\$325.00
60 month		
0 miles	NA/NA	NA
Over 0 miles	1L5X5/1LAZX	\$260.00
Monthly Extension		
0 miles	NA/NA	NA
Over 0 miles	1L5XS/1LAZX	\$455.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)

I. CURRENT RATES (Cont'd)

1. MON Transport System (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
c. Mileage		
- per mile		
36 month		
0 miles	NA/NA	NA
Over 0 miles	1L5X3/1LAZX	\$325.00
60 month		
0 miles	NA/NA	NA
Over 0 miles	1L5X5/1LAZX	\$260.00
Monthly Extension		
0 miles	NA/NA	NA
Over 0 miles	1L5XS/1LAZX	\$455.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

1. MON Transport System (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
d. Optical Amplifier - C Band		
- as required, per location		
36 month	67QXX/67QXX	\$ 5,400.00
60 month	67QXX/67QXX	3,600.00
Monthly Extension	67QXX/67QXX	7,600.00
Optical Amplifier - L Band ¹		
- as required, per location		
36 month	67QSX/67QSX	5,400.00
60 month	67QSX/67QSX	3,600.00
Monthly Extension	67QSX/67QSX	7,600.00
e. Regenerator		
- as required, up to 2.5 Gbps, per shelf		
36 month	V8RXX/V8RXX	7,500.00
60 month	V8RXX/V8RXX	5,000.00
Monthly Extension	V8RXX/V8RXX	10,500.00
- as required, up to 10 Gbps, per circuit		
36 month	V8R2C/V8R2C	15,000.00
60 month	V8R2C/V8R2C	10,000.00
Monthly Extension	V8R2C/V8R2C	21,000.00

NOTE 1: Applicable where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)

I. CURRENT RATES (Cont'd)

1. MON Transport System (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
d. Optical Amplifier - C Band		
- as required, per location		
36 month	67QXX/67QXX	\$ 5,400.00
60 month	67QXX/67QXX	3,600.00
Monthly Extension	67QXX/67QXX	7,600.00

Optical Amplifier - L Band² (T)

- as required, per location		
36 month	67QSX/67QSX	5,400.00
60 month	67QSX/67QSX	3,600.00
Monthly Extension	67QSX/67QSX	7,600.00

e. Regenerator

- as required, up to 2.5 Gbps, per shelf		
36 month	V8RXX/V8RXX	7,500.00
60 month	V8RXX/V8RXX	5,000.00
Monthly Extension	V8RXX/V8RXX	10,500.00
- as required, up to 10 Gbps, per circuit		
36 month	V8R2C/V8R2C	15,000.00
60 month	V8R2C/V8R2C	10,000.00
Monthly Extension	V8R2C/V8R2C	21,000.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)

NOTE 2: Applicable where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

1. MON Transport System (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
f. Bulk Power		
- includes first shelf (shelves 1-4)		
36 month	CBVDX/CBVDX	\$2,000.00
60 month	CBVDX/CBVDX	1,600.00
Monthly Extension	CBVDX/CBVDX	2,600.00
- per subsequent shelf, per fifth subsequent shelf (shelves 5-8)		
36 month	CBVDS/CBVDS	1,600.00
60 month	CBVDS/CBVDS	1,300.00
Monthly Extension	CBVDS/CBVDS	2,100.00
2. Ports		
- per port/per circuit terminating location		
a. ETR/CLO™		
- unprotected channel		
36 month	POYKW/POYKW	975.00
60 month	POYKW/POYKW	750.00
Monthly Extension	POYKW/POYKW	1,400.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)

I. CURRENT RATES (Cont'd)

1. MON Transport System (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
f. Bulk Power		
- includes first shelf (shelves 1-4)		
36 month	CBVDX/CBVDX	\$2,000.00
60 month	CBVDX/CBVDX	1,600.00
Monthly Extension	CBVDX/CBVDX	2,600.00
- per subsequent shelf, per fifth subsequent shelf (shelves 5-8)		
36 month	CBVDS/CBVDS	1,600.00
60 month	CBVDS/CBVDS	1,300.00
Monthly Extension	CBVDS/CBVDS	2,100.00
2. Ports		
- per port/per circuit terminating location		
a. ETR/CLO™		
- unprotected channel		
36 month	POYKW/POYKW	975.00
60 month	POYKW/POYKW	750.00
Monthly Extension	POYKW/POYKW	1,400.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
b. FICON™ (1.0625 Gbps)		
- unprotected channel		
36 month	POYMW/POYMW	\$ 975.00
60 month	POYMW/POYMW	750.00
Monthly Extension	POYMW/POYMW	1,400.00
- protected channel		
36 month	POYMP/POYMP	1,950.00
60 month	POYMP/POYMP	1,500.00
Monthly Extension	POYMP/POYMP	2,800.00
c. FICON™ (2.125 Gbps)		
- unprotected channel		
36 month	POYWW/POYWW	1,700.00
60 month	POYWW/POYWW	1,300.00
Monthly Extension	POYWW/POYWW	2,400.00
- protected channel		
36 month	POYWP/POYWP	3,400.00
60 month	POYWP/POYWP	2,600.00
Monthly Extension	POYWP/POYWP	4,800.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
b. FICON™ (1.0625 Gbps)		
- unprotected channel		
36 month	POYMW/POYMW	\$ 975.00
60 month	POYMW/POYMW	750.00
Monthly Extension	POYMW/POYMW	1,400.00
- protected channel		
36 month	POYMP/POYMP	1,950.00
60 month	POYMP/POYMP	1,500.00
Monthly Extension	POYMP/POYMP	2,800.00
c. FICON™ (2.125 Gbps)		
- unprotected channel		
36 month	POYWW/POYWW	1,700.00
60 month	POYWW/POYWW	1,300.00
Monthly Extension	POYWW/POYWW	2,400.00
- protected channel		
36 month	POYWP/POYWP	3,400.00
60 month	POYWP/POYWP	2,600.00
Monthly Extension	POYWP/POYWP	4,800.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
d. ISC-1™		
- unprotected channel		
36 month	POYJW/POYJW	\$1,800.00
60 month	POYJW/POYJW	1,250.00
Monthly Extension	POYJW/POYJW	2,500.00
- protected channel		
36 month	POYJP/POYJP	3,600.00
60 month	POYJP/POYJP	2,500.00
Monthly Extension	POYJP/POYJP	5,000.00
e. ISC-3™		
- unprotected channel		
36 month	POY9W/POY9W	\$ 3,750.00
60 month	POY9W/POY9W	2,500.00
Monthly Extension	POY9W/POY9W	5,000.00
- protected channel		
36 month	POY9P/POY9P	7,500.00
60 month	POY9P/POY9P	5,000.00
Monthly Extension	POY9P/POY9P	10,000.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
d. ISC-1 TM		
- unprotected channel		
36 month	POYJW/POYJW	\$1,800.00
60 month	POYJW/POYJW	1,250.00
Monthly Extension	POYJW/POYJW	2,500.00
- protected channel		
36 month	POYJP/POYJP	3,600.00
60 month	POYJP/POYJP	2,500.00
Monthly Extension	POYJP/POYJP	5,000.00
e. ISC-3 TM		
- unprotected channel		
36 month	POY9W/POY9W	\$ 3,750.00
60 month	POY9W/POY9W	2,500.00
Monthly Extension	POY9W/POY9W	5,000.00
- protected channel		
36 month	POY9P/POY9P	7,500.00
60 month	POY9P/POY9P	5,000.00
Monthly Extension	POY9P/POY9P	10,000.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
f. Fibre Channel (1.0625 Gbps)		
- unprotected channel		
36 month	POYNW/POYNW	\$1,200.00
60 month	POYNW/POYNW	900.00
Monthly Extension	POYNW/POYNW	1,700.00
- protected channel		
36 month	POYNP/POYNP	2,400.00
60 month	POYNP/POYNP	1,800.00
Monthly Extension	POYNP/POYNP	3,400.00
g. Fibre Channel (2.125 Gbps)		
- unprotected channel		
36 month	POYYW/POYYW	1,700.00
60 month	POYYW/POYYW	1,300.00
Monthly Extension	POYYW/POYYW	2,400.00
- protected channel		
36 month	POYYP/POYYP	3,400.00
60 month	POYYP/POYYP	2,600.00
Monthly Extension	POYYP/POYYP	4,800.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
f. Fibre Channel (1.0625 Gbps)		
- unprotected channel		
36 month	POYNW/POYNW	\$1,200.00
60 month	POYNW/POYNW	900.00
Monthly Extension	POYNW/POYNW	1,700.00
- protected channel		
36 month	POYNP/POYNP	2,400.00
60 month	POYNP/POYNP	1,800.00
Monthly Extension	POYNP/POYNP	3,400.00
g. Fibre Channel (2.125 Gbps)		
- unprotected channel		
36 month	POYYW/POYYW	1,700.00
60 month	POYYW/POYYW	1,300.00
Monthly Extension	POYYW/POYYW	2,400.00
- protected channel		
36 month	POYYP/POYYP	3,400.00
60 month	POYYP/POYYP	2,600.00
Monthly Extension	POYYP/POYYP	4,800.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
h. Gigabit Ethernet		
- unprotected channel		
36 month	POYLW/POYLW	\$ 1,200.00
60 month	POYLW/POYLW	900.00
Monthly Extension	POYLW/POYLW	1,700.00
- protected channel		
36 month	POYLP/POYLP	2,400.00
60 month	POYLP/POYLP	1,800.00
Monthly Extension	POYLP/POYLP	3,400.00
i. 10 (Ten) Gigabit Ethernet (WAN PHY)		
- unprotected channel		
36 month	POYTW/POYTW	15,000.00
60 month	POYTW/POYTW	12,500.00
Monthly Extension	POYTW/POYTW	21,000.00
- protected channel		
36 month	POYTP/POYTP	20,000.00
60 month	POYTP/POYTP	16,700.00
Monthly Extension	POYTP/POYTP	28,000.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
h. Gigabit Ethernet		
- unprotected channel		
36 month	POYLW/POYLW	\$ 1,200.00
60 month	POYLW/POYLW	900.00
Monthly Extension	POYLW/POYLW	1,700.00
- protected channel		
36 month	POYLP/POYLP	2,400.00
60 month	POYLP/POYLP	1,800.00
Monthly Extension	POYLP/POYLP	3,400.00
i. 10 (Ten) Gigabit Ethernet (WAN PHY)		
- unprotected channel		
36 month	POYTW/POYTW	15,000.00
60 month	POYTW/POYTW	12,500.00
Monthly Extension	POYTW/POYTW	21,000.00
- protected channel		
36 month	POYTP/POYTP	20,000.00
60 month	POYTP/POYTP	16,700.00
Monthly Extension	POYTP/POYTP	28,000.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
j. SONET OC-12/OC-12c		
- unprotected channel		
36 month	POYFW/POYFW	\$1,300.00
60 month	POYFW/POYFW	1,000.00
Monthly Extension	POYFW/POYFW	1,900.00
- protected channel		
36 month	POYFP/POYFP	2,600.00
60 month	POYFP/POYFP	2,000.00
Monthly Extension	POYFP/POYFP	3,700.00
k. SONET OC-48/OC-48c		
- unprotected channel		
36 month	POYGW/POYGW	4,400.00
60 month	POYGW/POYGW	3,700.00
Monthly Extension	POYGW/POYGW	6,000.00
- protected channel		
36 month	POYGP/POYGP	6,600.00
60 month	POYGP/POYGP	5,560.00
Monthly Extension	POYGP/POYGP	9,000.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
j. SONET OC-12/OC-12c		
- unprotected channel		
36 month	POYFW/POYFW	\$1,300.00
60 month	POYFW/POYFW	1,000.00
Monthly Extension	POYFW/POYFW	1,900.00
- protected channel		
36 month	POYFP/POYFP	2,600.00
60 month	POYFP/POYFP	2,000.00
Monthly Extension	POYFP/POYFP	3,700.00
k. SONET OC-48/OC-48c		
- unprotected channel		
36 month	POYGW/POYGW	4,400.00
60 month	POYGW/POYGW	3,700.00
Monthly Extension	POYGW/POYGW	6,000.00
- protected channel		
36 month	POYGP/POYGP	6,600.00
60 month	POYGP/POYGP	5,560.00
Monthly Extension	POYGP/POYGP	9,000.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
1. SONET OC-192/OC-192c		
- unprotected channel		
36 month	POYOW/POYOW	\$15,000.00
60 month	POYOW/POYOW	12,500.00
Monthly Extension	POYOW/POYOW	21,000.00
- protected channel		
36 month	POYOP/POYOP	20,000.00
60 month	POYOP/POYOP	16,700.00
Monthly Extension	POYOP/POYOP	28,000.00
m. 10 Gigabit Ethernet (LAN-PHY)		
- unprotected channel		
36 month	POYUW/POYUW	15,375.00
60 month	POYUW/POYUW	12,815.00
Monthly Extension	POYUW/POYUW	21,525.00
- protected channel		
36 month	POYUP/POYUP	20,500.00
60 month	POYUP/POYUP	17,120.00
Monthly Extension	POYUP/POYUP	28,700.00
n. DVB ASI ¹		
- unprotected channel		
36 month	POY8W/POY8W	2,100.00
60 month	POY8W/POY8W	1,650.00
Monthly Extension	POY8W/POY8W	3,075.00
- protected channel		
36 month	POY8P/POY8P	4,200.00
60 month	POY8P/POY8P	3,300.00
Monthly Extension	POY8P/POY8P	5,775.00

NOTE 1: Available where facilities and equipment permit beginning November 30, 2005.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
1. SONET OC-192/OC-192c		
- unprotected channel		
36 month	POYOW/POYOW	\$15,000.00
60 month	POYOW/POYOW	12,500.00
Monthly Extension	POYOW/POYOW	21,000.00
- protected channel		
36 month	POYOP/POYOP	20,000.00
60 month	POYOP/POYOP	16,700.00
Monthly Extension	POYOP/POYOP	28,000.00
m. 10 Gigabit Ethernet (LAN-PHY)		
- unprotected channel		
36 month	POYUW/POYUW	15,375.00
60 month	POYUW/POYUW	12,815.00
Monthly Extension	POYUW/POYUW	21,525.00
- protected channel		
36 month	POYUP/POYUP	20,500.00
60 month	POYUP/POYUP	17,120.00
Monthly Extension	POYUP/POYUP	28,700.00
n. DVB ASI ²		
- unprotected channel		
36 month	POY8W/POY8W	2,100.00
60 month	POY8W/POY8W	1,650.00
Monthly Extension	POY8W/POY8W	3,075.00
- protected channel		
36 month	POY8P/POY8P	4,200.00
60 month	POY8P/POY8P	3,300.00
Monthly Extension	POY8P/POY8P	5,775.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)

NOTE 2: Available where facilities and equipment permit beginning November 30, 2005. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
o. ESCON™ ¹		
- unprotected channel		
36 month	PWY1W/PWY1W	\$1,300.00
60 month	PWY1W/PWY1W	1,000.00
Monthly Extension	PWY1W/PWY1W	1,900.00
- protected channel		
36 month	PWY1P/PWY1P	2,600.00
60 month	PWY1P/PWY1P	2,000.00
Monthly Extension	PWY1P/PWY1P	3,700.00
p. Fast Ethernet ¹		
- unprotected channel		
36 month	PWY2W/PWY2W	\$1,300.00
60 month	PWY2W/PWY2W	1,000.00
Monthly Extension	PWY2W/PWY2W	1,900.00
- protected channel		
36 month	PWY2P/PWY2P	2,600.00
60 month	PWY2P/PWY2P	2,000.00
Monthly Extension	PWY2P/PWY2P	3,700.00

NOTE 1: Available where facilities and equipment permit.)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
o. ESCON TM ¹		
- unprotected channel		
36 month	PWY1W/PWY1W	\$1,300.00
60 month	PWY1W/PWY1W	1,000.00
Monthly Extension	PWY1W/PWY1W	1,900.00
- protected channel		
36 month	PWY1P/PWY1P	2,600.00
60 month	PWY1P/PWY1P	2,000.00
Monthly Extension	PWY1P/PWY1P	3,700.00
p. Fast Ethernet ²		
- unprotected channel		
36 month	PWY2W/PWY2W	\$1,300.00
60 month	PWY2W/PWY2W	1,000.00
Monthly Extension	PWY2W/PWY2W	1,900.00
- protected channel		
36 month	PWY2P/PWY2P	2,600.00
60 month	PWY2P/PWY2P	2,000.00
Monthly Extension	PWY2P/PWY2P	3,700.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)
 NOTE 2: Available where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
q. D1 Video		
- unprotected channel		
36 month	PWY3W/PWY3W	\$1,300.00
60 month	PWY3W/PWY3W	1,000.00
Monthly Extension	PWY3W/PWY3W	1,900.00
- protected channel		
36 month	PWY3P/PWY3P	2,600.00
60 month	PWY3P/PWY3P	2,000.00
Monthly Extension	PWY3P/PWY3P	3,700.00
r. SONET OC-3/OC-3c ¹		
- unprotected channel		
36 month	PWY4W/PWY4W	\$1,300.00
60 month	PWY4W/PWY4W	1,000.00
Monthly Extension	PWY4W/PWY4W	1,900.00
- protected channel		
36 month	PWY4P/PWY4P	2,600.00
60 month	PWY4P/PWY4P	2,000.00
Monthly Extension	PWY4P/PWY4P	3,700.00

NOTE 1: Available where facilities and equipment permit.

(T)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
q. D1 Video		
- unprotected channel		
36 month	PWY3W/PWY3W	\$1,300.00
60 month	PWY3W/PWY3W	1,000.00
Monthly Extension	PWY3W/PWY3W	1,900.00
- protected channel		
36 month	PWY3P/PWY3P	2,600.00
60 month	PWY3P/PWY3P	2,000.00
Monthly Extension	PWY3P/PWY3P	3,700.00
r. SONET OC-3/OC-3c ²		
- unprotected channel		
36 month	PWY4W/PWY4W	\$1,300.00
60 month	PWY4W/PWY4W	1,000.00
Monthly Extension	PWY4W/PWY4W	1,900.00
- protected channel		
36 month	PWY4P/PWY4P	2,600.00
60 month	PWY4P/PWY4P	2,000.00
Monthly Extension	PWY4P/PWY4P	3,700.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)

NOTE 2: Available where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System		
(1) Sub-Rate System ³		
- unprotected channel		
36 month	POYSW/POYSW	\$1,300.00
60 month	POYSW/POYSW	1,000.00
Monthly Extension	POYSW/POYSW	1,900.00
- protected channel		
36 month	POYSP/POYSP	2,600.00
60 month	POYSP/POYSP	2,000.00
Monthly Extension	POYSP/POYSP	3,700.00
(2) ESCON™ Riding Circuit ^{1,2,3}		
- unprotected channel		
36 month	POYHW/POYHW	100.00
60 month	POYHW/POYHW	100.00
Monthly Extension	POYHW/POYHW	150.00
- protected channel		
36 month	POYHP/POYHP	100.00
60 month	POYHP/POYHP	100.00
Monthly Extension	POYHP/POYHP	150.00

NOTE 1: Only available with Sub-Rate System.

NOTE 2: Also available with ESCON Sub-Rate System 8:1.

NOTE 3: Applicable where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>	
2. Ports (Cont'd)			
- per port/per circuit terminating location (Cont'd)			
s. Sub-Rate System			
(1) Sub-Rate System ⁴			(T)
- unprotected channel			
36 month	POYSW/POYSW	\$1,300.00	
60 month	POYSW/POYSW	1,000.00	
Monthly Extension	POYSW/POYSW	1,900.00	
- protected channel			
36 month	POYSP/POYSP	2,600.00	
60 month	POYSP/POYSP	2,000.00	
Monthly Extension	POYSP/POYSP	3,700.00	
(2) ESCON™ Riding Circuit ^{2,3,4}			(T)
- unprotected channel			
36 month	POYHW/POYHW	100.00	
60 month	POYHW/POYHW	100.00	
Monthly Extension	POYHW/POYHW	150.00	
- protected channel			
36 month	POYHP/POYHP	100.00	
60 month	POYHP/POYHP	100.00	
Monthly Extension	POYHP/POYHP	150.00	

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N)
 preceding. (N)

NOTE 2: Only available with Sub-Rate System. (T)

NOTE 3: Also available with ESCON Sub-Rate System 8:1. |

NOTE 4: Applicable where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(3) Fast Ethernet Riding Circuit ^{1,2}		
- unprotected channel		
36 month	POYCW/POYCW	\$325.00
60 month	POYCW/POYCW	250.00
Monthly Extension	POYCW/POYCW	400.00
- protected channel		
36 month	POYCP/POYCP	500.00
60 month	POYCP/POYCP	400.00
Monthly Extension	POYCP/POYCP	650.00
(4) D1 Video Riding Circuit ^{1,2}		
- unprotected channel		
36 month	POYVW/POYVW	100.00
60 month	POYVW/POYVW	100.00
Monthly Extension	POYVW/POYVW	150.00
- protected channel		
36 month	POYVP/POYVP	100.00
60 month	POYVP/POYVP	100.00
Monthly Extension	POYVP/POYVP	150.00

NOTE 1: Only available with Sub-Rate System.

NOTE 2: Offered as Riding Circuit where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(3) Fast Ethernet Riding Circuit ^{2,3} (T)		
- unprotected channel		
36 month	POYCW/POYCW	\$325.00
60 month	POYCW/POYCW	250.00
Monthly Extension	POYCW/POYCW	400.00
- protected channel		
36 month	POYCP/POYCP	500.00
60 month	POYCP/POYCP	400.00
Monthly Extension	POYCP/POYCP	650.00
(4) D1 Video Riding Circuit ^{2,3} (T)		
- unprotected channel		
36 month	POYVW/POYVW	100.00
60 month	POYVW/POYVW	100.00
Monthly Extension	POYVW/POYVW	150.00
- protected channel		
36 month	POYVP/POYVP	100.00
60 month	POYVP/POYVP	100.00
Monthly Extension	POYVP/POYVP	150.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)

NOTE 2: Only available with Sub-Rate System. (T)

NOTE 3: Offered as Riding Circuit where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(5) SONET OC-3/OC-3c Riding Circuit ^{1,2}		
- unprotected channel		
36 month	POYEW/POYEW	\$100.00
60 month	POYEW/POYEW	100.00
Monthly Extension	POYEW/POYEW	150.00
- protected channel		
36 month	POYEP/POYEP	100.00
60 month	POYEP/POYEP	100.00
Monthly Extension	POYEP/POYEP	150.00

NOTE 1: Only available with Sub-Rate System.

NOTE 2: Offered as Riding Circuit where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(5) SONET OC-3/OC-3c Riding Circuit ^{2,3}		(T)
- unprotected channel		
36 month	POYEW/POYEW	\$100.00
60 month	POYEW/POYEW	100.00
Monthly Extension	POYEW/POYEW	150.00
- protected channel		
36 month	POYEP/POYEP	100.00
60 month	POYEP/POYEP	100.00
Monthly Extension	POYEP/POYEP	150.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)
 NOTE 2: Only available with Sub-Rate System. (T)
 NOTE 3: Offered as Riding Circuit where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(6) ESCON™ Sub-Rate System (8:1) ^{1,2}		
- unprotected channel		
36 month	POY2W/POY2W	\$1,500.00
60 month	POY2W/POY2W	1,125.00
Monthly Extension	POY2W/POY2W	1,950.00
- protected channel		
36 month	POY2P/POY2P	3,000.00
60 month	POY2P/POY2P	2,250.00
Monthly Extension	POY2P/POY2P	3,900.00

NOTE 1: Only available with Sub-Rate System.

NOTE 2: Applicable where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(6) ESCON TM Sub-Rate System (8:1) ^{2,3}		(T)
- unprotected channel		
36 month	POY2W/POY2W	\$1,500.00
60 month	POY2W/POY2W	1,125.00
Monthly Extension	POY2W/POY2W	1,950.00
- protected channel		
36 month	POY2P/POY2P	3,000.00
60 month	POY2P/POY2P	2,250.00
Monthly Extension	POY2P/POY2P	3,900.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)

NOTE 2: Only available with Sub-Rate System. (T)

NOTE 3: Applicable where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)
 H. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(7) Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System (2:1)		
- unprotected channel		
36 month	POY1W/POY1W	\$ 875.00
60 month	POY1W/POY1W	700.00
Monthly Extension	POY1W/POY1W	1,140.00
- protected channel		
36 month	POY1P/POY1P	1,750.00
60 month	POY1P/POY1P	1,400.00
Monthly Extension	POY1P/POY1P	2,280.00
(a) Gigabit Ethernet Riding Circuit ¹		
- unprotected channel		
36 month	POY4W/POY4W	500.00
60 month	POY4W/POY4W	400.00
Monthly Extension	POY4W/POY4W	650.00
- protected channel		
36 month	POY4P/POY4P	1,000.00
60 month	POY4P/POY4P	800.00
Monthly Extension	POY4P/POY4P	1,300.00
(b) Fibre Channel Riding Circuit ¹ (for 1.0625 Gbps only)		
- unprotected channel		
36 month	POY6W/POY6W	500.00
60 month	POY6W/POY6W	400.00
Monthly Extension	POY6W/POY6W	650.00
- protected channel		
36 month	POY6P/POY6P	1,000.00
60 month	POY6P/POY6P	800.00
Monthly Extension	POY6P/POY6P	1,300.00

NOTE 1: Gigabit Ethernet and Fibre Channel Riding Services only available when ordered with Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System as set forth in B.7. preceding.

(T)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 H. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(7) Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System (2:1)		
- unprotected channel		
36 month	POY1W/POY1W	\$ 875.00
60 month	POY1W/POY1W	700.00
Monthly Extension	POY1W/POY1W	1,140.00
- protected channel		
36 month	POY1P/POY1P	1,750.00
60 month	POY1P/POY1P	1,400.00
Monthly Extension	POY1P/POY1P	2,280.00
(a) Gigabit Ethernet Riding Circuit ² (T)		
- unprotected channel		
36 month	POY4W/POY4W	500.00
60 month	POY4W/POY4W	400.00
Monthly Extension	POY4W/POY4W	650.00
- protected channel		
36 month	POY4P/POY4P	1,000.00
60 month	POY4P/POY4P	800.00
Monthly Extension	POY4P/POY4P	1,300.00
(b) Fibre Channel Riding Circuit ² (for 1.0625 Gbps only) (T)		
- unprotected channel		
36 month	POY6W/POY6W	500.00
60 month	POY6W/POY6W	400.00
Monthly Extension	POY6W/POY6W	650.00
- protected channel		
36 month	POY6P/POY6P	1,000.00
60 month	POY6P/POY6P	800.00
Monthly Extension	POY6P/POY6P	1,300.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N)
 preceding. (N)

NOTE 2: Gigabit Ethernet and Fibre Channel Riding Services only available when (T)
 ordered with Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System as
 set forth in B.7. preceding.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(7) Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System (2:1) (Cont'd)		
(c) FICON™ Riding Circuit ¹ (for 1.0625 Gbps only)		
- unprotected channel		
36 month	POY7W/POY7W	\$ 400.00
60 month	POY7W/POY7W	320.00
Monthly Extension	POY7W/POY7W	480.00
- protected channel		
36 month	POY7P/POY7P	800.00
60 month	POY7P/POY7P	640.00
Monthly Extension	POY7P/POY7P	960.00
(8) SONET OC3/OC-3c/OC-12/OC-12c Sub Rate System (4:1) ²		
- unprotected channel		
36 month	POY3W/POY3W	1,000.00
60 month	POY3W/POY3W	750.00
Monthly Extension	POY3W/POY3W	1,300.00
- protected channel		
36 month	POY3P/POY3P	2,000.00
60 month	POY3P/POY3P	1,500.00
Monthly Extension	POY3P/POY3P	2,600.00

NOTE 1: FICON™ Riding Service only available when ordered with Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System as set forth in B.7. preceding.

(T)

NOTE 2: Applicable where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(7) Gigabit Ethernet/Fibre Channel/FICON™ Sub-Rate System (2:1) (Cont'd)		
(c) FICON™ Riding Circuit ² (for 1.0625 Gbps only) (T)		
- unprotected channel		
36 month	POY7W/POY7W	\$ 400.00
60 month	POY7W/POY7W	320.00
Monthly Extension	POY7W/POY7W	480.00
- protected channel		
36 month	POY7P/POY7P	800.00
60 month	POY7P/POY7P	640.00
Monthly Extension	POY7P/POY7P	960.00
(8) SONET OC3/OC-3c/OC-12/OC-12c Sub Rate System (4:1) ³ (T)		
- unprotected channel		
36 month	POY3W/POY3W	1,000.00
60 month	POY3W/POY3W	750.00
Monthly Extension	POY3W/POY3W	1,300.00
- protected channel		
36 month	POY3P/POY3P	2,000.00
60 month	POY3P/POY3P	1,500.00
Monthly Extension	POY3P/POY3P	2,600.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N)
 preceding. (N)

NOTE 2: FICON™ Riding Service only available when ordered with Gigabit (T)
 Ethernet/Fibre Channel/FICON™ Sub-Rate System as set forth in B.7.
 preceding. (T)

NOTE 3: Applicable where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(9) SONET OC-12/OC-12c Riding Circuit ^{1,2}		
- unprotected channel		
36 month	POY5W/POY5W	\$ 500.00
60 month	POY5W/POY5W	375.00
Monthly Extension	POY5W/POY5W	700.00
- protected channel		
36 month	POY5P/POY5P	1,000.00
60 month	POY5P/POY5P	750.00
Monthly Extension	POY5P/POY5P	1,400.00

NOTE 1: OC-12/OC-12c Riding Circuit only available when ordered with OC-3/OC-12 Sub Rate system as set forth in B.7. preceding.

(T)

NOTE 2: Applicable where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(9) SONET OC-12/OC-12c Riding Circuit ^{2,3}		(T)
- unprotected channel		
36 month	POY5W/POY5W	\$ 500.00
60 month	POY5W/POY5W	375.00
Monthly Extension	POY5W/POY5W	700.00
- protected channel		
36 month	POY5P/POY5P	1,000.00
60 month	POY5P/POY5P	750.00
Monthly Extension	POY5P/POY5P	1,400.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N)
 preceding. (N)
 NOTE 2: OC-12/OC-12c Riding Circuit only available when ordered with (T)
 OC-3/OC-12 Sub Rate system as set forth in B.7. preceding.
 NOTE 3: Applicable where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(10) SONET OC-48/OC-48c SONET Sub-Rate System 4:1 ¹		
- unprotected channel		
36 month	POYRW/POYRW	\$3,500.00
60 month	POYRW/POYRW	2,750.00
Monthly Extension	POYRW/POYRW	4,250.00
- protected channel		
36 month	POYRP/POYRP	7,000.00
60 month	POYRP/POYRP	5,500.00
Monthly Extension	POYRP/POYRP	8,500.00
(a) SONET OC-48/OC-48c Riding Circuit ¹		
- unprotected channel		
36 month	POYZW/POYZW	\$1,900.00
60 month	POYZW/POYZW	1,200.00
Monthly Extension	POYZW/POYZW	2,800.00
- protected channel		
36 month	POYZP/POYZP	3,800.00
60 month	POYZP/POYZP	2,400.00
Monthly Extension	POYZP/POYZP	5,600.00

NOTE 1: Only applicable on a MON Ring where facilities and equipment permit.

NOTE 2: Offered as Riding Circuit where facilities and equipment permit beginning November 30, 2005.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(10) SONET OC-48/OC-48c SONET Sub-Rate System 4:1 ²		(T)
- unprotected channel		
36 month	POYRW/POYRW	\$3,500.00
60 month	POYRW/POYRW	2,750.00
Monthly Extension	POYRW/POYRW	4,250.00
- protected channel		
36 month	POYRP/POYRP	7,000.00
60 month	POYRP/POYRP	5,500.00
Monthly Extension	POYRP/POYRP	8,500.00
(a) SONET OC-48/OC-48c Riding Circuit ³		(T)
- unprotected channel		
36 month	POYZW/POYZW	\$1,900.00
60 month	POYZW/POYZW	1,200.00
Monthly Extension	POYZW/POYZW	2,800.00
- protected channel		
36 month	POYZP/POYZP	3,800.00
60 month	POYZP/POYZP	2,400.00
Monthly Extension	POYZP/POYZP	5,600.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N) preceding. (N)

NOTE 2: Only applicable on a MON Ring where facilities and equipment permit. (T)

NOTE 3: Offered as Riding Circuit where facilities and equipment permit beginning November 30, 2005. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Monthly</u> <u>Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(11) DVB ASI (Riding Circuit) ¹		
- unprotected channel		
36 month	PWY5W/PWY5W	\$100.00
60 month	PWY5W/PWY5W	100.00
Monthly Extension	PWY5W/PWY5W	150.00
- protected channel		
36 month	PWY5P/PWY5P	100.00
60 month	PWY5P/PWY5P	100.00
Monthly Extension	PWY5P/PWY5P	150.00

NOTE 1: Offered as a Riding Circuit where facilities and equipment permit.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

	<u>USOC CRIS/CABS</u>	<u>Current Monthly Rate</u>
2. Ports (Cont'd)		
- per port/per circuit terminating location (Cont'd)		
s. Sub-Rate System (Cont'd)		
(11) DVB ASI (Riding Circuit) ²		(T)
- unprotected channel		
36 month	PWY5W/PWY5W	\$100.00
60 month	PWY5W/PWY5W	100.00
Monthly Extension	PWY5W/PWY5W	150.00
- protected channel		
36 month	PWY5P/PWY5P	100.00
60 month	PWY5P/PWY5P	100.00
Monthly Extension	PWY5P/PWY5P	150.00

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, (N)
 preceding. (N)

NOTE 2: Offered as a Riding Circuit where facilities and equipment permit. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)

I. CURRENT RATES (Cont'd)

3. Non Recurring Charges

	<u>USOC</u> <u>CRIS/CABS</u>	<u>Current</u> <u>Nonrecurring</u> <u>Charge</u>	
a. Administrative Charge			
- per service order	ORCMX/ORCMX	\$ 125.00	
b. Design and Central Office Connection Charge			
- per circuit	NRBCL/NRMCK	600.00	
c. Customer Connection Charge			
- Service Establishment ¹			
per node	NRBBL/NRBBL	7,500.00	
- Subsequent installation ² (Riding Services only)			(T)
per subsequent shelf	NHCNL/NHCNL	1,000.00	

NOTE 1: Applies to establish the MON Network.

NOTE 2: Applies to every riding service circuit after MON Network established.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.2 MULTI-SERVICE OPTICAL NETWORK RING¹ (Cont'd) (N)
 I. CURRENT RATES (Cont'd)

3. Non Recurring Charges

	<u>USOC CRIS/CABS</u>	<u>Current Nonrecurring Charge</u>	
a. Administrative Charge			
- per service order	ORCMX/ORCMX	\$ 125.00	
b. Design and Central Office Connection Charge			
- per circuit	NRBCL/NRMCK	600.00	
c. Customer Connection Charge			
- Service Establishment ²			(T)
per node	NRBBL/NRBBL	7,500.00	
- Subsequent installation ³ (Riding Services only)			(T)
per subsequent shelf	NHCNL/NHCNL	1,000.00	

NOTE 1: MON Ring Grandfathered effective December 1, 2012. See Limited Offer, preceding. (N)
 NOTE 2: Applies to establish the MON Ring Network. (T)
 NOTE 3: Applies to every riding service circuit after MON Ring Network established. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE

A. SERVICE DESCRIPTION

FibreMAN® Service is a dedicated point-to-point service connecting customer's premises. FibreMAN® Service is based on the Fibre Channel protocol. FibreMAN® Service provides transport of the customer's data between the customer's computer devices at a data rate of 1 Gbps or 2 Gbps. FibreMAN® extends the connectivity between customer premises to enable storage connectivity between the customer's servers.

(T)

FibreMAN® Service will be configured as Node-to-Node Service. All Node Terminations connected in a Node-to-Node configuration must be the same type and transmit data at the same speed. All basic service configurations provide full duplex transmission.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE¹ (N)

A. SERVICE DESCRIPTION

1. FibreMAN[®] Service is a dedicated point-to-point service connecting customer's premises. FibreMAN[®] Service is based on the Fibre Channel protocol. FibreMAN[®] Service provides transport of the customer's data between the customer's computer devices at a data rate of 1 Gbps or 2 Gbps. FibreMAN[®] extends the connectivity between customer premises to enable storage connectivity between the customer's servers. (T)

FibreMAN[®] Service will be configured as Node-to-Node Service. All Node Terminations connected in a Node-to-Node configuration must be the same type and transmit data at the same speed. All basic service configurations provide full duplex transmission.

2. Limited Offer (N)

Effective February 4, 2011, FibreMAN Service is limited to customers with existing service. No new customers will be permitted to order FibreMAN Service. New requests for physical changes to FibreMAN Service (including the upgrade or downgrade of access speed, installation of new service, or moves to different service addresses) will not be provisioned. Customer Term Pricing Plans (TPPs) that expire prior to October 31, 2011 may extend their service until October 31, 2011 utilizing the Monthly Extension Rate provision of the TPP. Current customers will be permitted to keep their service until October 31, 2011, at which time all circuits must be disconnected and the service will be discontinued. (N)

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE (Cont'd)

B. REGULATIONS

In addition to regulations set forth elsewhere in this tariff and in Schedule Cal.P.U.C. No. 175-T Access Service, the following regulations apply to FibreMAN[®] Service:

1. The customer provided equipment (CPE) must deliver the data signal for the FibreMAN[®] transport within the industry specification for the subscribed data service.
2. FibreMAN[®] provides physical layer transport only. The Utility assumes no responsibility for the through transmission of signals generated by the customer's CPE, for the quality of, or defects in such transmission, for the reception of signals by the customer's CPE, or address signaling to the extent addressing is performed by the customer's CPE. Error detection and correction of data generated by the customer's CPE is the customer's responsibility.
3. FibreMAN[®] is designed to provide connectivity at the discrete bit rate of 1 Gbps or 2 Gbps.
4. FibreMAN[®] Service is provided where facilities and/or operating conditions permit. Where conditions and/or operating conditions are not available, Special Construction charges as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply.
5. FibreMAN[®] is available on one, two, three or five year Term Pricing Plan (TPP) offerings.
6. Out of service adjustments for credit allowances are set forth in Schedule Cal.P.U.C. No. 175-T, Section 2.4.4.
7. FibreMAN[®] is not available in a Meet Point billing configuration as set forth in Schedule Cal.P.U.C. No. 175-T, Sections 2.4.8 and 5.2.10.
8. FibreMAN[®] is not available in a Multi-Node configuration.
9. Node terminations are not available in Utility Serving Wire Centers.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE¹ (Cont'd) (N)

B. REGULATIONS

In addition to regulations set forth elsewhere in this tariff and in Schedule Cal.P.U.C. No. 175-T Access Service, the following regulations apply to FibreMAN[®] Service:

1. The customer provided equipment (CPE) must deliver the data signal for the FibreMAN[®] transport within the industry specification for the subscribed data service.
2. FibreMAN[®] provides physical layer transport only. The Utility assumes no responsibility for the through transmission of signals generated by the customer's CPE, for the quality of, or defects in such transmission, for the reception of signals by the customer's CPE, or address signaling to the extent addressing is performed by the customer's CPE. Error detection and correction of data generated by the customer's CPE is the customer's responsibility.
3. FibreMAN[®] is designed to provide connectivity at the discrete bit rate of 1 Gbps or 2 Gbps.
4. FibreMAN[®] Service is provided where facilities and/or operating conditions permit. Where conditions and/or operating conditions are not available, Special Construction charges as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply.
5. FibreMAN[®] is available on one, two, three or five year Term Pricing Plan (TPP) offerings.
6. Out of service adjustments for credit allowances are set forth in Schedule Cal.P.U.C. No. 175-T, Section 2.4.4.
7. FibreMAN[®] is not available in a Meet Point billing configuration as set forth in Schedule Cal.P.U.C. No. 175-T, Sections 2.4.8 and 5.2.10.
8. FibreMAN[®] is not available in a Multi-Node configuration.
9. Node terminations are not available in Utility Serving Wire Centers.

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N)
with existing service. No new customers will be permitted to order (N)
FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE (Cont'd)

B. REGULATIONS (Cont'd)

In addition to regulations set forth elsewhere in this tariff and in Schedule Cal.P.U.C. No. 175-T Access Service, the following regulations apply to FibreMAN[®] Service: (Cont'd)

10. Conversion from other services (e.g., GigaMAN[®], DS1, etc.) are not available with FibreMAN[®] service.
11. Regulations for moves of a FibreMAN[®] service are set forth in Schedule Cal.P.U.C. No. 175-T, Section 5.2.5.
12. The minimum period for FibreMAN[®] service is 12 months.
13. The actual throughput obtained with FibreMAN[®] service is distance sensitive based upon the CPE (customer provided equipment), therefore, FibreMAN[®] service is not offered with guaranteed throughput thresholds.
14. FibreMAN[®] Service is distance limited based on circuit configuration as determined by the Utility.
15. Moves and changes of FibreMAN[®] Service will be provided as set forth in F.5. following.

C. STANDARD FEATURES

All basic service configurations provide full duplex transmission. FibreMAN[®] Service will be configured as a Node-to-Node configuration. All Node Terminations connected in a Node-to-Node configuration must be the same type and transmit data at the same speed.

D. OPTIONAL FEATURES

1. Diversity

FibreMAN[®] service is offered with Diversity. Diversity requires two FibreMAN[®] services purchased by the same customer of record. The customer premises locations for the two Diverse FibreMAN[®] services may differ respectively in A to Z locations for the two circuits and both circuits must be served by the same type of Utility equipment.

FibreMAN[®] diversity (including Channel Termination Diversity, Alternate Wire Center Diversity and Inter-Wire Center Diversity) may be configured to be diverse from other eligible Access services as determined by the Utility.

(T)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE¹ (Cont'd) (N)

B. REGULATIONS (Cont'd)

In addition to regulations set forth elsewhere in this tariff and in Schedule Cal.P.U.C. No. 175-T Access Service, the following regulations apply to FibreMAN[®] Service: (Cont'd)

10. Conversion from other services (e.g., GigaMAN[®], DS1, etc.) are not available with FibreMAN[®] service.
11. Regulations for moves of a FibreMAN[®] service are set forth in Schedule Cal.P.U.C. No. 175-T, Section 5.2.5.
12. The minimum period for FibreMAN[®] service is 12 months.
13. The actual throughput obtained with FibreMAN[®] service is distance sensitive based upon the CPE (customer provided equipment), therefore, FibreMAN[®] service is not offered with guaranteed throughput thresholds.
14. FibreMAN[®] Service is distance limited based on circuit configuration as determined by the Utility.
15. Moves and changes of FibreMAN[®] Service will be provided as set forth in F.5. following.

C. STANDARD FEATURES

All basic service configurations provide full duplex transmission. FibreMAN[®] Service will be configured as a Node-to-Node configuration. All Node Terminations connected in a Node-to-Node configuration must be the same type and transmit data at the same speed.

D. OPTIONAL FEATURES

1. Diversity

FibreMAN[®] service is offered with Diversity. Diversity requires two FibreMAN[®] services purchased by the same customer of record. The customer premises locations for the two Diverse FibreMAN[®] services may differ respectively in A to Z locations for the two circuits and both circuits must be served by the same type of Utility equipment.

FibreMAN[®] diversity (including Channel Termination Diversity, Alternate Wire Center Diversity and Inter-Wire Center Diversity) may be configured to be diverse from other eligible Access services as determined by the Utility.

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding.

(N)
|
(N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE (Cont'd)

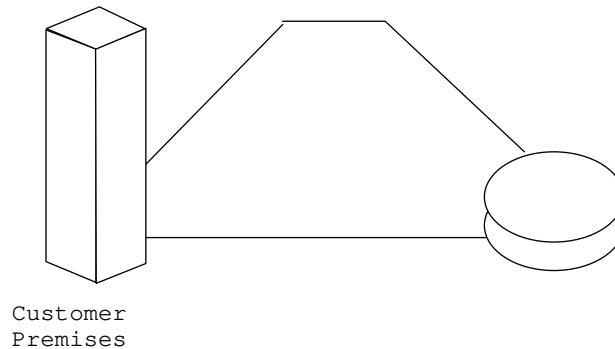
D. OPTIONAL FEATURES (Cont'd)

1. Diversity (Cont'd)

The following diversity options are available with FibreMAN[®].

Route Diversity options can be provided where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply.

a. Channel Termination Diversity (Local Distribution Channel Diversity)¹



Channel Termination Diversity (Local Channel Diversity)

Channel Termination Diversity provides for a transmission path between a designated customer premise and the standard Serving Wire Center (SWC) that is diverse from the standard transmission path. With this arrangement, one Channel Termination will be provisioned over the standard route and one Channel Termination will be provisioned over the diverse route both utilizing the same Serving Wire Center.

Channel Termination Diversity (Local Channel Diversity) does not provide for full diversity of the FibreMAN[®] service. It only allows for diversity from the splice point closest to the customer's property line to the SWC.

If a customer requires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15.

NOTE 1: FibreMAN[®] diversity (including Channel Termination Diversity, Alternate Wire Center Diversity and Inter Wire Center Diversity) may be configured to be diverse from other eligible Access services as determined by the Utility.

Continued

OTHER SERVICES

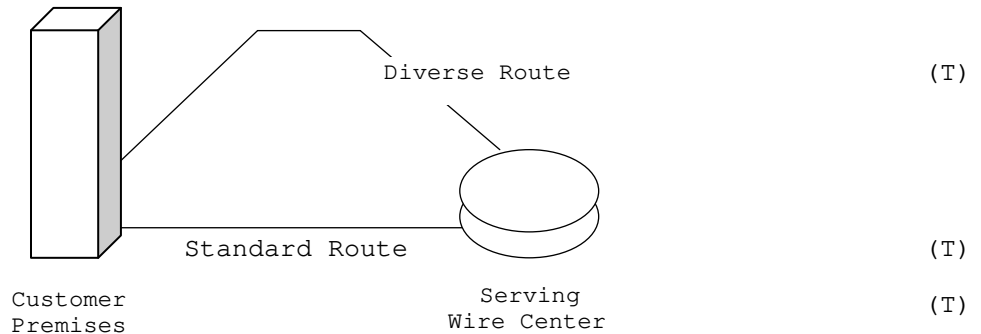
D12. SPECIAL ACCESS SERVICE

- 12.3 FIBREMAN[®] SERVICE¹ (Cont'd) (N)
- D. OPTIONAL FEATURES (Cont'd)
- 1. Diversity (Cont'd)

The following diversity options are available with FibreMAN[®].

Route Diversity options can be provided where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply.

- a. Channel Termination Diversity (Local Distribution Channel Diversity)² (T)



Channel Termination Diversity (Local Channel Diversity)

Channel Termination Diversity provides for a transmission path between a designated customer premise and the standard Serving Wire Center (SWC) that is diverse from the standard transmission path. With this arrangement, one Channel Termination will be provisioned over the standard route and one Channel Termination will be provisioned over the diverse route both utilizing the same Serving Wire Center.

Channel Termination Diversity (Local Channel Diversity) does not provide for full diversity of the FibreMAN[®] service. It only allows for diversity from the splice point closest to the customer's property line to the SWC.

If a customer requires full diversity, arrangements must be made for constructing dual entrance facilities into the customer's premise, as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15.

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding. (N)

NOTE 2: FibreMAN[®] diversity (including Channel Termination Diversity, Alternate Wire Center Diversity and Inter Wire Center Diversity) may be configured to be diverse from other eligible Access services as determined by the Utility. (T)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE (Cont'd)

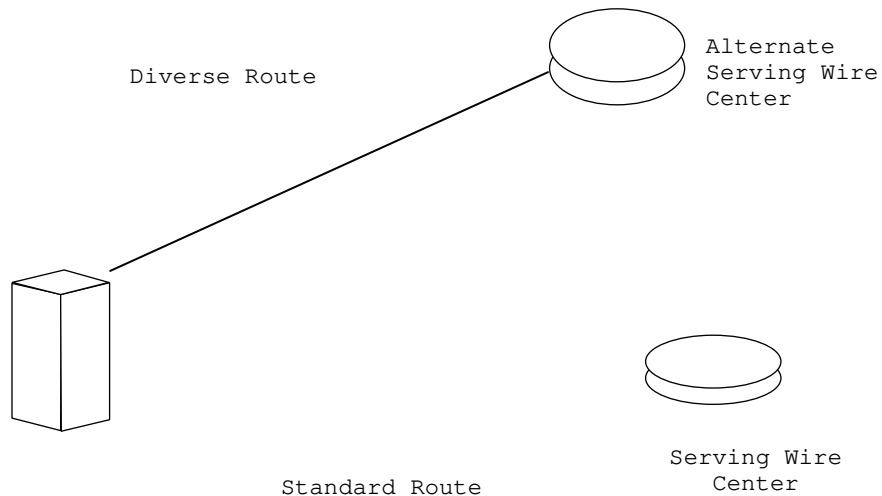
D. OPTIONAL FEATURES (Cont'd)

1. Diversity (Cont'd)

The following diversity options are available with FibreMAN[®]. (Cont'd)

Route Diversity options can be provided where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply.

b. Alternate Wire Center Diversity



Alternate Wire Center Diversity

Alternate Wire Center Diversity is offered on the Channel Termination only and may be applicable to one or both Channel Terminations of a FibreMAN[®] service. Alternate Wire Center Diversity provides for a transmission path from the customer's designated premises through a Serving Wire Center that is not the customer's standard Serving Wire Center. The Utility will select the closest Alternate Wire Center to the customer's premises that is capable of providing FibreMAN[®] service over the alternate route. Alternate Wire Center Diversity does not require a second FibreMAN[®] circuit.

Alternate Wire Center Diversity does not provide full diversity of the FibreMAN[®] service. Customers requiring full diversity must utilize Special Construction as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd) (N)

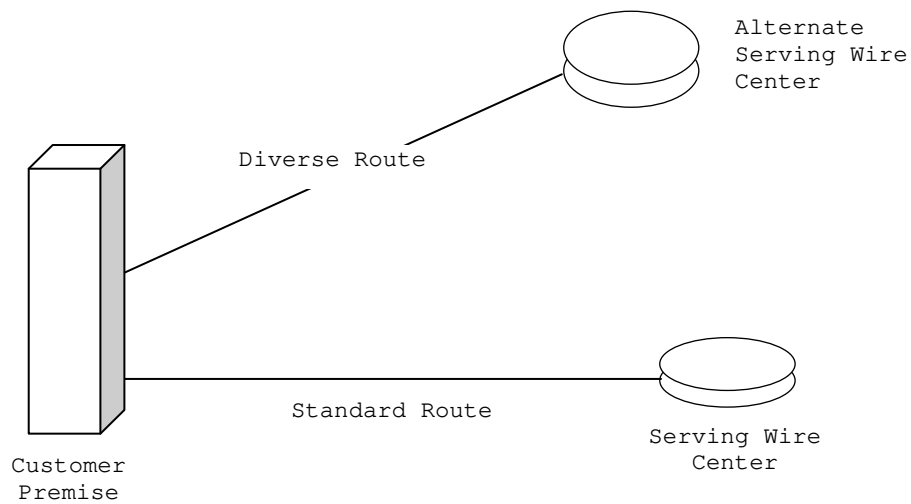
D. OPTIONAL FEATURES (Cont'd)

1. Diversity (Cont'd)

The following diversity options are available with FibreMAN®. (Cont'd)

Route Diversity options can be provided where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply.

b. Alternate Wire Center Diversity



(T)

Alternate Wire Center Diversity

Alternate Wire Center Diversity is offered on the Channel Termination only and may be applicable to one or both Channel Terminations of a FibreMAN® service. Alternate Wire Center Diversity provides for a transmission path from the customer's designated premises through a Serving Wire Center that is not the customer's standard Serving Wire Center. The Utility will select the closest Alternate Wire Center to the customer's premises that is capable of providing FibreMAN® service over the alternate route. Alternate Wire Center Diversity does not require a second FibreMAN® circuit.

Alternate Wire Center Diversity does not provide full diversity of the FibreMAN® service. Customers requiring full diversity must utilize Special Construction as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15.

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N) with existing service. No new customers will be permitted to order | FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE (Cont'd)

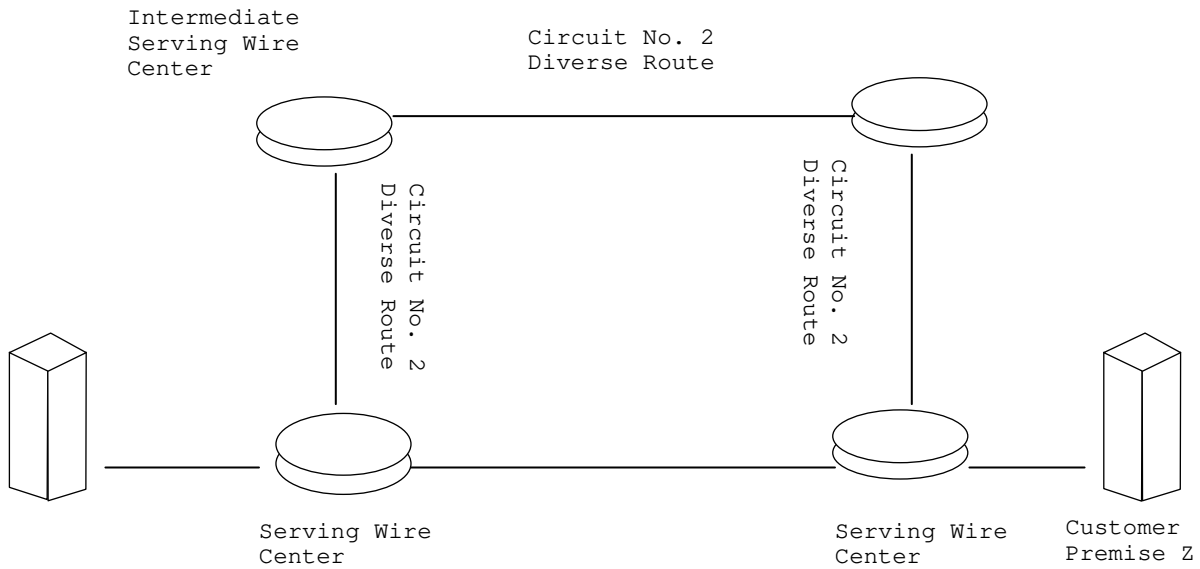
D. OPTIONAL FEATURES (Cont'd)

1. Diversity (Cont'd)

The following diversity options are available with FibreMAN® (Cont'd)

Route Diversity options can be provided where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply.

c. Inter-Wire Center Diversity¹



Inter-Wire Center Diversity

Inter-Wire Center Diversity applies to FibreMAN® service that requires more than one Serving Wire Center to provide the transmission path between the customer premises. Inter-Wire Center Diversity provides for a transmission path that is not the standard transmission path between the Serving Wire Centers of a FibreMAN® service. The Utility will select the closest diverse Serving Wire Centers to the customer's premises for the Inter-Wire Center Diversity.

Inter-wire center diversity does not provide for full diversity; it only offers interoffice diversity. If a customer requires full diversity, arrangements must be made for dual entrance facilities, as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15.

NOTE 1: FibreMAN® diversity (including Channel Termination Diversity, Alternate Wire Center Diversity and Inter-Wire Center Diversity) may be configured to be diverse from other eligible Access services as determined by the Utility.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE¹ (Cont'd) (N)

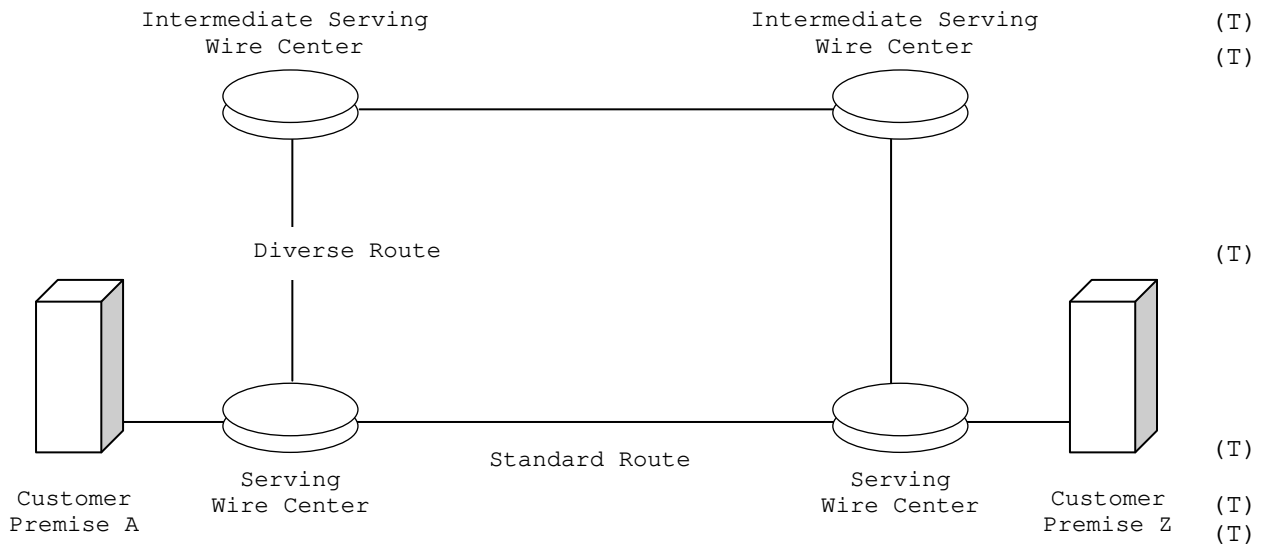
D. OPTIONAL FEATURES (Cont'd)

1. Diversity (Cont'd)

The following diversity options are available with FibreMAN[®] (Cont'd)

Route Diversity options can be provided where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply.

c. Inter-Wire Center Diversity² (T)



Inter-Wire Center Diversity

Inter-Wire Center Diversity applies to FibreMAN[®] service that requires more than one Serving Wire Center to provide the transmission path between the customer premises. Inter-Wire Center Diversity provides for a transmission path that is not the standard transmission path between the Serving Wire Centers of a FibreMAN[®] service. The Utility will select the closest diverse Serving Wire Centers to the customer's premises for the Inter-Wire Center Diversity.

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding. (N)

NOTE 2: FibreMAN[®] diversity (including Channel Termination Diversity, Alternate Wire Center Diversity and Inter-Wire Center Diversity) may be configured to be diverse from other eligible Access services as determined by the Utility. (T)

Material omitted now located on Sheet 87.1 (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE (Cont'd)

D. OPTIONAL FEATURES (Cont'd)

2. Repeater

A repeater (circuit regenerator) may be used to boost the transmission of FibreMAN[®] service when necessary. Repeaters will be located in Utility Serving Wire Centers as required. The first repeater, known as the "gateway," is also used for service alarming and monitoring purposes. All FibreMAN[®] circuits will have at least one associated CO/wire center gateway.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE¹ (Cont'd) (N)

D. OPTIONAL FEATURES (Cont'd)

1. Diversity (Cont'd) (L)

The following diversity options are available with FibreMAN[®] (Cont'd)

Route Diversity options can be provided where facilities and/or operating conditions permit. Where facilities and/or operating conditions do not exist, Special Construction charges as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. may apply.

c. Inter-Wire Center Diversity² (Cont'd) (T)

Inter-wire center diversity does not provide for full diversity; it only offers interoffice diversity. If a customer requires full diversity, arrangements must be made for dual entrance facilities, as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. (L)

2. Repeater

A repeater (circuit regenerator) may be used to boost the transmission of FibreMAN[®] service when necessary. Repeaters will be located in Utility Serving Wire Centers as required. The first repeater, known as the "gateway," is also used for service alarming and monitoring purposes. All FibreMAN[®] circuits will have at least one associated CO/wire center gateway.

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding. (N)

NOTE 2: FibreMAN[®] diversity (including Channel Termination Diversity, Alternate Wire Center Diversity and Inter-Wire Center Diversity) may be configured to be diverse from other eligible Access services as determined by the Utility. (T)

(L) Material formerly located on Sheet 87. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE (Cont'd)

E. TECHNICAL REFERENCES

Technical specifications are set forth in the following technical references:

Ethernet Standards	SBC TP-76412-000
Fibre Channel Physical and Signaling Interface	ANSI X3.230

The Technical Reference can be obtained from:

SBC Technical Information Resource Management
2000 W. Ameritech Center Drive, Locn 3A09F
Hoffman Estates, IL 60196
(847) 248-4328

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE (Cont'd)

E. TECHNICAL REFERENCES

Technical specifications are set forth in the following technical references:

Ethernet Standards	SBC TP-76412-000
Fibre Channel Physical and Signaling Interface	ANSI X3.230

The Technical Reference can be obtained from:

APEX Support Team	(T)
(734) 523-7348	(T)
	(D)
	(D)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE¹ (Cont'd) (N)

E. TECHNICAL REFERENCES

Technical specifications are set forth in the following technical references:

Ethernet Standards	SBC TP-76412-000
Fibre Channel Physical and Signaling Interface	ANSI X3.230

The Technical Reference can be obtained from:

APEX Support Team
(734) 523-7348

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N) with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE (Cont'd)

F. RATE REGULATIONS

1. Rate Elements

The applicable rate elements for FibreMAN[®] Service are as follows:

Channel Termination
Channel Mileage
Diversity Options
Monthly Extension Rate
Repeater

2. Term Pricing Plan (TPP) Offerings

FibreMAN[®] is offered as one, two, three or five year Term Pricing Plan (TPP) offerings.

For customers that subscribe to a 1, 2, 3, or 5 year TPP, the monthly rates in effect at the time the service is installed will apply. If the Utility initiates rate changes resulting in a decrease of rates for an existing service with a 1, 2, 3, or 5 year fixed service period, those rate changes will be passed along to the customer. Rate changes resulting in an increase of rates for an existing service will not exceed the original rate for that selected service period unless mandated by the California Public Utilities Commission.

a. Renewal of a Term Pricing Plan

At the end of a Term Pricing Plan, the customer may renew with a written notice of intent to renew no later than 90 days prior to its expiration, for any TPP in effect without incurring new nonrecurring charges. If the customer elects not to renew the TPP or does not notify the Utility of its intent to renew the TPP, the service will automatically be billed under the Monthly Extension rates in effect at the time the TPP expires until the customer cancels or renews the service with a new TPP term. Subsequently, customers under the Monthly Extension rates may convert their existing service to either a 1, 2, 3, or 5 year TPP. The customer will not be assessed any associated nonrecurring charges as long as the physical serving arrangement does not change.

Monthly Extensions are not available to new service.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE¹ (Cont'd) (N)

F. RATE REGULATIONS

1. Rate Elements

The applicable rate elements for FibreMAN[®] Service are as follows:

Channel Termination
Channel Mileage
Diversity Options
Monthly Extension Rate
Repeater

2. Term Pricing Plan (TPP) Offerings

FibreMAN[®] is offered as one, two, three or five year Term Pricing Plan (TPP) offerings.

For customers that subscribe to a 1, 2, 3, or 5 year TPP, the monthly rates in effect at the time the service is installed will apply. If the Utility initiates rate changes resulting in a decrease of rates for an existing service with a 1, 2, 3, or 5 year fixed service period, those rate changes will be passed along to the customer. Rate changes resulting in an increase of rates for an existing service will not exceed the original rate for that selected service period unless mandated by the California Public Utilities Commission.

a. Renewal of a Term Pricing Plan

At the end of a Term Pricing Plan, the customer may renew with a written notice of intent to renew no later than 90 days prior to its expiration, for any TPP in effect without incurring new nonrecurring charges. If the customer elects not to renew the TPP or does not notify the Utility of its intent to renew the TPP, the service will automatically be billed under the Monthly Extension rates in effect at the time the TPP expires until the customer cancels or renews the service with a new TPP term. Subsequently, customers under the Monthly Extension rates may convert their existing service to either a 1, 2, 3, or 5 year TPP. The customer will not be assessed any associated nonrecurring charges as long as the physical serving arrangement does not change.

Monthly Extensions are not available to new service.

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N) with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE (Cont'd)

F. RATE REGULATIONS (Cont'd)

2. Term Pricing Plan (TPP) Offerings (Cont'd)

FibreMAN[®] is available on one, two, three or five year Term Pricing Plan (TPP) offerings. (Cont'd)

b. Change of Term Pricing Plan

At any time, a customer may change an existing TPP to a new TPP only when the new TPP payment period is longer than the remaining period currently in effect, without any Termination Liability Charges or nonrecurring charges applying as long as all other aspects of the service and facilities remain unchanged. The new TPP begins on the service order completion date and is treated as a new TPP period.

(T)

Customers may change to a shorter TPP by paying the associated Termination Liability Charges with the current TPP. The rates that will apply will be the current rates in effect for the TPP ordered on the date of conversion. However, no new nonrecurring charges apply as long as all other aspects of the service and facilities remain unchanged.

c. Other Changes to Term Pricing Plans

Any change to a TPP arrangement not otherwise permitted shall constitute a discontinuance of the existing service and all applicable Termination Liability Charges shall apply. The new service will be subject to all applicable rates and charges (e.g., nonrecurring, recurring, and termination) in effect on the date of the service change.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE¹ (Cont'd) (N)

F. RATE REGULATIONS (Cont'd)

2. Term Pricing Plan (TPP) Offerings (Cont'd)

FibreMAN[®] is available on one, two, three or five year Term Pricing Plan (TPP) offerings. (Cont'd)

b. Change of Term Pricing Plan

At any time, a customer may change an existing TPP to a new TPP only when the new TPP payment period is longer than the remaining period currently in effect, without any Termination Liability Charges or nonrecurring charges applying as long as all other aspects of the service and facilities remain unchanged. The new TPP begins on the service order completion date and is treated as a new TPP period.

Customers may change to a shorter TPP by paying the associated Termination Liability Charges with the current TPP. The rates that will apply will be the current rates in effect for the TPP ordered on the date of conversion. However, no new nonrecurring charges apply as long as all other aspects of the service and facilities remain unchanged.

c. Other Changes to Term Pricing Plans

Any change to a TPP arrangement not otherwise permitted shall constitute a discontinuance of the existing service and all applicable Termination Liability Charges shall apply. The new service will be subject to all applicable rates and charges (e.g., nonrecurring, recurring, and termination) in effect on the date of the service change.

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N) with existing service. No new customers will be permitted to order |
FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

- 12.3 FIBREMAN® SERVICE (Cont'd)
- F. RATE REGULATIONS (Cont'd)
- 2. Term Pricing Plan (TPP) Offerings (Cont'd)

d. Termination Liability Charges

Minimum periods for Term Pricing Plans shall apply as set forth in Schedule Cal.P.U.C. No. 175-T, Sections 5.2.5 and B.12. preceding.

(T)

For a TPP discontinued prior to the end of its payment plan period, excluding Term Pricing Plans terminated as a result of renegotiations, the Termination Liability Charge shall apply as follows:

<u>Term Pricing Plan</u>	<u>Termination Percentage</u>
1, 2, 3 and 5 year	50%

The termination charge is calculated as follows:

$$\begin{array}{r} \text{Months remaining in} \\ \text{Term Pricing Plan} \end{array} \times \begin{array}{r} \text{Recurring} \\ \text{Charges} \end{array} \times \begin{array}{r} \text{Termination} \\ \text{Percentage} \end{array} = \text{Termination Charge}$$

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd) (N)

F. RATE REGULATIONS (Cont'd)

2. Term Pricing Plan (TPP) Offerings (Cont'd)

d. Termination Liability Charges

Minimum periods for Term Pricing Plans shall apply as set forth in Schedule Cal.P.U.C. No. 175-T, Sections 5.2.5 and B.12. preceding.

For a TPP discontinued prior to the end of its payment plan period, excluding Term Pricing Plans terminated as a result of renegotiations, the Termination Liability Charge shall apply as follows:

<u>Term Pricing Plan</u>	<u>Termination Percentage</u>
1, 2, 3 and 5 year	50%

The termination charge is calculated as follows:

$$\begin{array}{r} \text{Months remaining in} \\ \text{Term Pricing Plan} \end{array} \times \begin{array}{r} \text{Recurring} \\ \text{Charges} \end{array} \times \begin{array}{r} \text{Termination} \\ \text{Percentage} \end{array} = \text{Termination Charge}$$

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N) with existing service. No new customers will be permitted to order | FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE (Cont'd)

F. RATE REGULATIONS (Cont'd)

3. Repeater

A monthly recurring charge will be associated with each repeater network element, except for the first repeater in a FibreMAN[®] circuit path. The first repeater is also used for service alarming and monitoring purposes.

4. Mileage

For the Inter-Wire Center Diversity offering, Interoffice mileage will be calculated between the Intermediate Serving Wire Centers along the circuit path of the Diversely routed FibreMAN[®] Service.

5. Moves and Changes

FibreMAN[®] customers subscribing to two (2), three (3) and five (5) year Term Pricing Plans may move one end of the FibreMAN[®] Service per the following regulations:

- a. The customer may move one end of the FibreMAN[®] Service to a different premises in the same LATA without incurring the Early Termination Liability charges for their existing FibreMAN[®] Service, providing the following criteria are met, contingent upon the availability of fiber from premises to premises. Customers with less than 12 months (for the 2 Year Term Plan), 15 months (for the 3 Year Term Plan), and 18 months (for the 5 Year Term Plan) of existing FibreMAN[®] Service will not be eligible to have Termination Liability waived.

- (1) The customer subscribes to a new Term Pricing Plan period that is greater than the remaining months in the existing term Payment Plan; (T)
- (2) Nonrecurring charges will apply where applicable; (T)
- (3) Spare facilities and equipment must be available or Special Construction charges, as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. shall apply. (T)

The moved service will require a disconnect of the existing FibreMAN[®] service and placement of an order for the new FibreMAN[®] Service for the same customer of record as the disconnected service. With this change the customer will experience an Out of Service condition.

The monthly rates for the new service(s) shall be those rates in effect at the time the new service(s) is being installed requiring a disconnect of the existing FibreMAN[®] Service and placement of an order for new FibreMAN[®] Service.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE¹ (Cont'd) (N)

F. RATE REGULATIONS (Cont'd)

3. Repeater

A monthly recurring charge will be associated with each repeater network element, except for the first repeater in a FibreMAN[®] circuit path. The first repeater is also used for service alarming and monitoring purposes.

4. Mileage

For the Inter-Wire Center Diversity offering, Interoffice mileage will be calculated between the Intermediate Serving Wire Centers along the circuit path of the Diversely routed FibreMAN[®] Service.

5. Moves and Changes

FibreMAN[®] customers subscribing to two (2), three (3) and five (5) year Term Pricing Plans may move one end of the FibreMAN[®] Service per the following regulations:

- a. The customer may move one end of the FibreMAN[®] Service to a different premises in the same LATA without incurring the Early Termination Liability charges for their existing FibreMAN[®] Service, providing the following criteria are met, contingent upon the availability of fiber from premises to premises. Customers with less than 12 months (for the 2 Year Term Plan), 15 months (for the 3 Year Term Plan), and 18 months (for the 5 Year Term Plan) of existing FibreMAN[®] Service will not be eligible to have Termination Liability waived.

- (1) The customer subscribes to a new Term Pricing Plan period that is greater than the remaining months in the existing Term Pricing Plan; (T)
- (2) Nonrecurring charges will apply where applicable;
- (3) Spare facilities and equipment must be available or Special Construction charges, as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15. shall apply.

The moved service will require a disconnect of the existing FibreMAN[®] service and placement of an order for the new FibreMAN[®] Service for the same customer of record as the disconnected service. With this change the customer will experience an Out of Service condition.

The monthly rates for the new service(s) shall be those rates in effect at the time the new service(s) is being installed requiring a disconnect of the existing FibreMAN[®] Service and placement of an order for new FibreMAN[®] Service.

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N)
with existing service. No new customers will be permitted to order
FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

- 12.3 FIBREMAN[®] SERVICE (Cont'd)
F. RATE REGULATIONS (Cont'd)
5. Moves and Changes (Cont'd)

FibreMAN[®] customers subscribing to two (2), three (3) and five (5) year Term Pricing Plans may move one end of the FibreMAN[®] Service per the following regulations: (Cont'd)

- b. The FibreMAN[®] Service was installed without Diversity and customer subsequently requests Diversity options after the FibreMAN[®] order has been completed, and customer premises locations remain the same. This will require a change to the customer premises based Utility equipment. This change will be treated as an upgrade to the FibreMAN[®] Service and a new nonrecurring charge is applicable. This change will require a disconnect of the existing FibreMAN[®] Service and placement of an order for the new FibreMAN[®] Service for the same customer of record. With this upgrade the customer will experience an Out of Service condition.
- c. The FibreMAN[®] Service was installed with Diversity options and the customer subsequently requests a move of the Channel Termination within the same premises after the FibreMAN[®] order has been completed. This request may require a change to the customer premises based Utility equipment which will be determined by the Utility. Nonrecurring charges in the amount of one-half of the nonrecurring charge for the channel termination are applicable. With this upgrade the customer may experience an Out of Service condition.
- d. All other moves are considered a complete disconnect of the service and require a new order for service. Early Termination Liability charges are applicable.

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN[®] SERVICE¹ (Cont'd) (N)

F. RATE REGULATIONS (Cont'd)

5. Moves and Changes (Cont'd)

FibreMAN[®] customers subscribing to two (2), three (3) and five (5) year Term Pricing Plans may move one end of the FibreMAN[®] Service per the following regulations: (Cont'd)

- b. The FibreMAN[®] Service was installed without Diversity and customer subsequently requests Diversity options after the FibreMAN[®] order has been completed, and customer premises locations remain the same. This will require a change to the customer premises based Utility equipment. This change will be treated as an upgrade to the FibreMAN[®] Service and a new nonrecurring charge is applicable. This change will require a disconnect of the existing FibreMAN[®] Service and placement of an order for the new FibreMAN[®] Service for the same customer of record. With this upgrade the customer will experience an Out of Service condition.
- c. The FibreMAN[®] Service was installed with Diversity options and the customer subsequently requests a move of the Channel Termination within the same premises after the FibreMAN[®] order has been completed. This request may require a change to the customer premises based Utility equipment which will be determined by the Utility. Nonrecurring charges in the amount of one-half of the nonrecurring charge for the channel termination are applicable. With this upgrade the customer may experience an Out of Service condition.
- d. All other moves are considered a complete disconnect of the service and require a new order for service. Early Termination Liability charges are applicable.

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N) with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding. (N)

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OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE (Cont'd)

G. MAXIMUM RATES AND CHARGES

	<u>USOC</u>	<u>Maximum Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. Channel Termination			
a. 1 Gbps			
- 12 month	25P8X	\$4,898.78	\$1,999.50
- 24 month	25P8X	4,132.30	1,999.50
- 36 month	25P8X	3,799.05	1,999.50
- 60 month	25P8X	3,332.50	1,999.50
- Monthly Extension	25P8P	5,878.40	1,999.50
b. 2 Gbps			
- 12 month	25P9X	6,858.29	1,999.50
- 24 month	25P9X	5,598.60	1,999.50
- 36 month	25P9X	5,332.00	1,999.50
- 60 month	25P9X	4,665.50	1,999.50
- Monthly Extension	25P9P	8,229.94	1,999.50

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd)

(N)

G. MAXIMUM RATES AND CHARGES

	<u>USOC</u>	<u>Maximum Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. Channel Termination			
a. 1 Gbps			
- 12 month	25P8X	\$4,898.78	\$1,999.50
- 24 month	25P8X	4,132.30	1,999.50
- 36 month	25P8X	3,799.05	1,999.50
- 60 month	25P8X	3,332.50	1,999.50
- Monthly Extension	25P8P	5,878.40	1,999.50
b. 2 Gbps			
- 12 month	25P9X	6,858.29	1,999.50
- 24 month	25P9X	5,598.60	1,999.50
- 36 month	25P9X	5,332.00	1,999.50
- 60 month	25P9X	4,665.50	1,999.50
- Monthly Extension	25P9P	8,229.94	1,999.50

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding.

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OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE (Cont'd)

G. MAXIMUM RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Maximum Monthly Rate</u>	
2. Channel Mileage			
a. per mile/fixed			
- 12 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$333.25	(T)
- 24 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$299.93	(T)
- 36 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$266.60	(T)
- 60 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$133.30	(T)
- Monthly Extension			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$333.25	(T)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd) (N)

G. MAXIMUM RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Maximum Monthly Rate</u>
2. Channel Mileage		
a. per mile/fixed		
- 12 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$333.25
- 24 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$299.93
- 36 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$266.60
- 60 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$133.30
- Monthly Extension		
- 0 miles		NA
- over 0 miles	JZ4XS	\$333.25

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N)
 with existing service. No new customers will be permitted to order
 FibreMAN Service. For additional information, see A.2. preceding. (N)

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OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE (Cont'd)

G. MAXIMUM RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Maximum Monthly Rate</u>	
2. Channel Mileage (Cont'd)			
b. Variable			
- 12 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$166.63	(T)
- 24 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$153.30	(T)
- 36 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$133.30	(T)
- 60 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$99.98	(T)
- Monthly Extension			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$166.63	(T)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd) (N)

G. MAXIMUM RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Maximum Monthly Rate</u>
2. Channel Mileage (Cont'd)		
b. Variable		
- 12 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$166.63
- 24 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$153.30
- 36 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$133.30
- 60 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$99.98
- Monthly Extension		
- 0 miles		NA
- over 0 miles	JZ4XS	\$166.63

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N)
 with existing service. No new customers will be permitted to order
 FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE (Cont'd)
 G. MAXIMUM RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Maximum Monthly Rate</u>	<u>Nonrecurring Charge</u>
3. Optional Features			
a. Channel Termination Diversity (Local Distribution Channel Diversity)			
- 12 month	DJVYX	\$ 999.75	None
- 24 month	DJVYX	999.75	None
- 36 month	DJVYX	999.75	None
- 60 month	DJVYX	999.75	None
- Monthly Extension	DJVYX	999.75	None
b. Alternate Wire Center Diversity			
- 12 month	AVOYX	1,599.60	None
- 24 month	AVOYX	1,599.60	None
- 36 month	AVOYX	1,599.60	None
- 60 month	AVOYX	1,599.60	None
- Monthly Extension	AVOYX	1,599.60	None
c. Inter-Wire Center Diversity			
- 12 month	DEQYX	666.50	None
- 24 month	DEQYX	666.50	None
- 36 month	DEQYX	666.50	None
- 60 month	DEQYX	666.50	None
- Monthly Extension	DEQYX	666.50	None

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OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd) (N)

G. MAXIMUM RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Maximum Monthly Rate</u>	<u>Nonrecurring Charge</u>
3. Optional Features			
a. Channel Termination Diversity (Local Distribution Channel Diversity)			
- 12 month	DJYX	\$ 999.75	None
- 24 month	DJYX	999.75	None
- 36 month	DJYX	999.75	None
- 60 month	DJYX	999.75	None
- Monthly Extension	DJYX	999.75	None
b. Alternate Wire Center Diversity			
- 12 month	AVOYX	1,599.60	None
- 24 month	AVOYX	1,599.60	None
- 36 month	AVOYX	1,599.60	None
- 60 month	AVOYX	1,599.60	None
- Monthly Extension	AVOYX	1,599.60	None
c. Inter-Wire Center Diversity			
- 12 month	DEQYX	666.50	None
- 24 month	DEQYX	666.50	None
- 36 month	DEQYX	666.50	None
- 60 month	DEQYX	666.50	None
- Monthly Extension	DEQYX	666.50	None

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N)
 with existing service. No new customers will be permitted to order |
 FibreMAN Service. For additional information, see A.2. preceding. (N)

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OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE (Cont'd)
 G. MAXIMUM RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Maximum Monthly Rate</u>	<u>Nonrecurring Charge</u>
3. Optional Features (Cont'd)			
d. Repeater			
- per FibreMAN® service arranged			
- 1 Year Plan	VU4	\$3,199.30	None
- 2 Year Plan	VU4	2,260.10	None
- 3 Year Plan	VU4	1,532.95	None
- 5 Year Plan	VU4	1,133.05	None
- Monthly Extension	VU4	3,332.50	None

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd) (N)

G. MAXIMUM RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Maximum Monthly Rate</u>	<u>Nonrecurring Charge</u>
3. Optional Features (Cont'd)			
d. Repeater			
- per FibreMAN® service arranged			
- 1 Year Plan	VU4	\$3,199.30	None
- 2 Year Plan	VU4	2,260.10	None
- 3 Year Plan	VU4	1,532.95	None
- 5 Year Plan	VU4	1,133.05	None
- Monthly Extension	VU4	3,332.50	None

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding.

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OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE (Cont'd)

H. CURRENT RATES AND CHARGES

	<u>USOC</u>	<u>Current Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. Channel Termination			
a. 1 Gbps			
- 12 month	25P8X	\$3,675.00	\$1,500.00
- 24 month	25P8X	3,100.00	1,500.00
- 36 month	25P8X	2,850.00	1,500.00
- 60 month	25P8X	2,500.00	1,500.00
- Monthly Extension	25P8P	4,410.00	1,500.00
b. 2 Gbps			
- 12 month	25P9X	5,145.00	1,500.00
- 24 month	25P9X	4,200.00	1,500.00
- 36 month	25P9X	4,000.00	1,500.00
- 60 month	25P9X	3,500.00	1,500.00
- Monthly Extension	25P9P	6,174.00	1,500.00

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd)

(N)

H. CURRENT RATES AND CHARGES

	<u>USOC</u>	<u>Current Monthly Rate</u>	<u>Nonrecurring Charge</u>
1. Channel Termination			
a. 1 Gbps			
- 12 month	25P8X	\$3,675.00	\$1,500.00
- 24 month	25P8X	3,100.00	1,500.00
- 36 month	25P8X	2,850.00	1,500.00
- 60 month	25P8X	2,500.00	1,500.00
- Monthly Extension	25P8P	4,410.00	1,500.00
b. 2 Gbps			
- 12 month	25P9X	5,145.00	1,500.00
- 24 month	25P9X	4,200.00	1,500.00
- 36 month	25P9X	4,000.00	1,500.00
- 60 month	25P9X	3,500.00	1,500.00
- Monthly Extension	25P9P	6,174.00	1,500.00

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N)
 with existing service. No new customers will be permitted to order (N)
 FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE (Cont'd)
 H. CURRENT RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Current Monthly Rate</u>	
2. Channel Mileage			
a. per mile/fixed			
- 12 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$250.00	(T)
- 24 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$225.00	(T)
- 36 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$200.00	(T)
- 60 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$100.00	(T)
- Monthly Extension			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$250.00	(T)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd) (N)

H. CURRENT RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Current Monthly Rate</u>
2. Channel Mileage		
a. per mile/fixed		
- 12 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$250.00
- 24 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$225.00
- 36 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$200.00
- 60 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$100.00
- Monthly Extension		
- 0 miles		NA
- over 0 miles	JZ4XS	\$250.00

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N) with existing service. No new customers will be permitted to order (N) FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE (Cont'd)

H. CURRENT RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Current Monthly Rate</u>	
2. Channel Mileage (Cont'd)			
b. variable			
- 12 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$125.00	(T)
- 24 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$115.00	(T)
- 36 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$100.00	(T)
- 60 month			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$75.00	(T)
- Monthly Extension			
- 0 miles		NA	
- over 0 miles	JZ4XS	\$125.00	(T)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd) (N)

H. CURRENT RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Current Monthly Rate</u>
2. Channel Mileage (Cont'd)		
b. variable		
- 12 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$125.00
- 24 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$115.00
- 36 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$100.00
- 60 month		
- 0 miles		NA
- over 0 miles	JZ4XS	\$75.00
- Monthly Extension		
- 0 miles		NA
- over 0 miles	JZ4XS	\$125.00

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding.

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE (Cont'd)
 H. CURRENT RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Current Monthly Rate</u>	<u>Nonrecurring Charge</u>
3. Optional Features			
a. Channel Termination Diversity (Local Distribution Channel Diversity)			
- 12 month	DJVYX	\$ 750.00	None
- 24 month	DJVYX	750.00	None
- 36 month	DJVYX	750.00	None
- 60 month	DJVYX	750.00	None
- Monthly Extension	DJVYX	750.00	None
b. Alternate Wire Center Diversity			
- 12 month	AVOYX	1,200.00	None
- 24 month	AVOYX	1,200.00	None
- 36 month	AVOYX	1,200.00	None
- 60 month	AVOYX	1,200.00	None
- Monthly Extension	AVOYX	1,200.00	None
c. Inter-Wire Center Diversity			
- 12 month	DEQYX	500.00	None
- 24 month	DEQYX	500.00	None
- 36 month	DEQYX	500.00	None
- 60 month	DEQYX	500.00	None
- Monthly Extension	DEQYX	500.00	None

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd) (N)

H. CURRENT RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Current Monthly Rate</u>	<u>Nonrecurring Charge</u>
3. Optional Features			
a. Channel Termination Diversity (Local Distribution Channel Diversity)			
- 12 month	DJVYX	\$ 750.00	None
- 24 month	DJVYX	750.00	None
- 36 month	DJVYX	750.00	None
- 60 month	DJVYX	750.00	None
- Monthly Extension	DJVYX	750.00	None
b. Alternate Wire Center Diversity			
- 12 month	AVOYX	1,200.00	None
- 24 month	AVOYX	1,200.00	None
- 36 month	AVOYX	1,200.00	None
- 60 month	AVOYX	1,200.00	None
- Monthly Extension	AVOYX	1,200.00	None
c. Inter-Wire Center Diversity			
- 12 month	DEQYX	500.00	None
- 24 month	DEQYX	500.00	None
- 36 month	DEQYX	500.00	None
- 60 month	DEQYX	500.00	None
- Monthly Extension	DEQYX	500.00	None

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N)
 with existing service. No new customers will be permitted to order (N)
 FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

(T)

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE (Cont'd)
H. CURRENT RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Current Monthly Rate</u>	<u>Nonrecurring Charge</u>
3. Optional Features (Cont'd)			
d. Repeater			
- per FibreMAN® service arranged			
- 1 Year Plan	VU4	\$2,400.00	None
- 2 Year Plan	VU4	1,700.00	None
- 3 Year Plan	VU4	1,150.00	None
- 5 Year Plan	VU4	850.00	None
- Monthly Extension	VU4	2,500.00	None

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.3 FIBREMAN® SERVICE¹ (Cont'd) (N)

H. CURRENT RATES AND CHARGES (Cont'd)

	<u>USOC</u>	<u>Current Monthly Rate</u>	<u>Nonrecurring Charge</u>
3. Optional Features (Cont'd)			
d. Repeater			
- per FibreMAN® service arranged			
- 1 Year Plan	VU4	\$2,400.00	None
- 2 Year Plan	VU4	1,700.00	None
- 3 Year Plan	VU4	1,150.00	None
- 5 Year Plan	VU4	850.00	None
- Monthly Extension	VU4	2,500.00	None

NOTE 1: Effective February 4, 2011, FibreMAN Service is limited to customers (N) with existing service. No new customers will be permitted to order FibreMAN Service. For additional information, see A.2. preceding. (N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.4 DecaMAN® SERVICE

(N)

A. SERVICE DESCRIPTION

DecaMAN Service is an intraLATA, dedicated high capacity service limited to the transport of data signals between customer locations. DecaMAN provides for the transmission of data at a discrete bit rate of 10 Gbps in Ethernet format (10 Gigabit Ethernet IEEE 802.3ae). DecaMAN is available in a point-to-point (node-to-node) configuration. DecaMAN is a fiber-based transport service that enables LAN PHY and WAN PHY connectivity between customer LANs, MANs and WANs within the same LATA.

DecaMAN Service can be used to seamlessly extend customer local area networks to off-site locations such as data centers, storage locations or satellite office locations within the same metro area. Applications that could be used with DecaMAN Service include LAN-to-LAN connectivity, CAD/CAM file transfer, telemedicine and business continuity transport.

The 802.3ae 10 GigE standard defines two OSI Layer 1 Physical ("PHY") specifications:

WAN PHY provides a carrier-grade interface capability at a discrete bit rate of 9.95 Gbps (physical layer rate), allowing customers to transport data signals over a SONET infrastructure

LAN PHY provides a carrier-grade interface capability at a discrete bit rate of 10.3125 Gbps (physical layer rate), allowing customers to interconnect Ethernet LANs

DecaMAN is provisioned over dedicated fiber-optic channels, which may include Wave Division Multiplexing in all or part of the network. Each DecaMAN Service provides dedicated bandwidth to the customer. All DecaMAN Services traverse through a Utility Central Office gateway that serves to regenerate the DecaMAN signal and provides the Utility with in-band monitoring and maintenance capability. Network Terminating Equipment (NTE) may be required on customer premises, at the discretion of the Utility, based on technical design criteria.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.4 DecaMAN® SERVICE (Cont'd)

(N)

G. MAXIMUM RATES AND CHARGES

----- MAXIMUM RATES -----

STANDARD FEATURES	USOC CABS/CRIS	Monthly	Nonrecurring
		Rate	Charge
1. Local Distribution Channel			
LAN-PHY			
1 Year Plan	TMECS/1RSTX	\$20,000.00	\$2,000.00
2 Year Plan	TMECS/1RSTX	16,000.00	2,000.00
3 Year Plan	TMECS/1RSTX	11,400.00	2,000.00 ¹
5 Year Plan	TMECS/1RSTX	9,750.00	2,000.00 ¹
Monthly Extension	TMECS/1RSTX	24,000.00	2,000.00
WAN-PHY			
1 Year Plan	TMECS/1RSTX	22,000.00	2,000.00
2 Year Plan	TMECS/1RSTX	17,600.00	2,000.00
3 Year Plan	TMECS/1RSTX	12,800.00	2,000.00 ¹
5 Year Plan	TMECS/1RSTX	11,000.00	2,000.00 ¹
Monthly Extension	TMECS/1RSTX	26,500.00	2,000.00
2. Interoffice Channel Mileage			
		Monthly Rates	
		<u>Fixed</u>	<u>Per Mile</u>
1 Year Plan	1L5XX/JZ68S	3,600.00	400.00
2 Year Plan	1L5XX/JZ68S	2,400.00	335.00
3 Year Plan	1L5XX/JZ68S	1,700.00	165.00
5 Year Plan	1L5XX/JZ68S	1,540.00	135.00
Monthly Extension	1L5XX/JZ68S	4,800.00	570.00
3. Repeater²			
- each		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1 Year Plan	VU4/VU4	8,000.00	None
2 Year Plan	VU4/VU4	6,400.00	None
3 Year Plan	VU4/VU4	4,550.00	None
5 Year Plan	VU4/VU4	3,900.00	None
Monthly Extension	VU4/VU4	9,600.00	None

NOTE 1: Nonrecurring charges are not applicable for new service installed under the 3 or 5 year TPP.

NOTE 2: Applies to additional Repeaters required to provision the service. Does not apply to the first Repeater designed with the circuit.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.4 DecaMAN® SERVICE (Cont'd)

G. RESERVED

(T)

(D)

(D)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.4 DecaMAN® SERVICE (Cont'd)

(N)

G. MAXIMUM RATES AND CHARGES (Cont'd)

----- MAXIMUM RATES -----

OPTIONAL FEATURES	USOC CABS/CRIS	Monthly Rate	Nonrecurring Charge
1. Diversity Options			
Local Channel Diversity - per terminating end			
1 Year Plan	CPALX/CPALX	\$4,050.00	\$1,130.00
2 Year Plan	CPALX/CPALX	3,600.00	1,130.00
3 Year Plan	CPALX/CPALX	3,000.00	1,130.00
5 Year Plan	CPALX/CPALX	2,700.00	1,130.00
Monthly Extension	CPALX/CPALX	5,250.00	1,130.00
Alternate Wire-Center Diversity - per terminating end			
1 Year Plan	CPAAX/CPAAX	6,500.00	1,260.00
2 Year Plan	CPAAX/CPAAX	5,800.00	1,260.00
3 Year Plan	CPAAX/CPAAX	4,800.00	1,260.00
5 Year Plan	CPAAX/CPAAX	4,350.00	1,260.00
Monthly Extension	CPAAX/CPAAX	8,400.00	1,260.00
Inter-Wire Center Diversity - per circuit			
1 Year Plan	CPATX/CPATX	2,700.00	935.00
2 Year Plan	CPATX/CPATX	2,400.00	935.00
3 Year Plan	CPATX/CPATX	2,000.00	935.00
5 Year Plan	CPATX/CPATX	1,800.00	935.00
Monthly Extension	CPATX/CPATX	3,500.00	935.00
2. Protection Options			
Equipment Only Protection - per terminating end			
1 Year Plan	CPAEX/CPAEX	11,000.00	4,000.00
2 Year Plan	CPAEX/CPAEX	9,800.00	4,000.00
3 Year Plan	CPAEX/CPAEX	8,400.00	4,000.00
5 Year Plan	CPAEX/CPAEX	7,200.00	4,000.00
Monthly Extension	CPAEX/CPAEX	12,000.00	4,000.00

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.4 DecaMAN® SERVICE (Cont'd)

G. RESERVED (Cont'd)

(T)

(D)

(D)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.4 DecaMAN® SERVICE (Cont'd)

(N)

G. MAXIMUM RATES AND CHARGES (Cont'd)

----- MAXIMUM RATES -----

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OPTIONAL FEATURES (Cont'd)			
2. Protection Options (Cont'd)			
Equipment Plus Fiber Path Protection, with ...			
- per terminating end			
Alternate Wire Center			
Path Protection			
1 Year Plan	CPAFX/CPAFX	\$16,400.00	\$6,000.00
2 Year Plan	CPAFX/CPAFX	14,800.00	6,000.00
3 Year Plan	CPAFX/CPAFX	12,800.00	6,000.00
5 Year Plan	CPAFX/CPAFX	11,200.00	6,000.00
Monthly Extension	CPAFX/CPAFX	19,750.00	6,000.00
Local Channel			
Path Protection			
1 Year Plan	CPAGX/CPAGX	14,600.00	5,600.00
2 Year Plan	CPAGX/CPAGX	13,200.00	5,600.00
3 Year Plan	CPAGX/CPAGX	11,400.00	5,600.00
5 Year Plan	CPAGX/CPAGX	9,800.00	5,600.00
Monthly Extension	CPAGX/CPAGX	17,500.00	5,600.00
Inter-Wire Center Path Protection ¹			
- per circuit			
1 Year Plan	CPAHX/CPAHX	1,500.00	830.00
2 Year Plan	CPAHX/CPAHX	800.00	830.00
3 Year Plan	CPAHX/CPAHX	600.00	830.00
5 Year Plan	CPAHX/CPAHX	400.00	830.00
Monthly Extension	CPAHX/CPAHX	1,900.00	830.00
Power Protection			
- per rack or cabinet			
1 Year Plan	VBBGX/VBBGX	835.00	635.00
2 Year Plan	VBBGX/VBBGX	700.00	635.00
3 Year Plan	VBBGX/VBBGX	640.00	635.00
5 Year Plan	VBBGX/VBBGX	580.00	635.00
Monthly Extension	VBBGX/VBBGX	935.00	635.00

NOTE 1: Inter-Wire Center Path Protection must be ordered in conjunction with an Equipment Protection option at each end of the circuit.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.4 DecaMAN® SERVICE (Cont'd)

(N)

H. CURRENT RATES AND CHARGES

----- CURRENT RATES -----

STANDARD FEATURES	USOC CABS/CRIS	Monthly Rate	Nonrecurring Charge
1. Local Distribution Channel			
LAN-PHY			
1 Year Plan	TMECS/1RSTX	\$15,000.00	\$1,500.00
2 Year Plan	TMECS/1RSTX	12,000.00	1,500.00
3 Year Plan	TMECS/1RSTX	8,500.00	1,500.00 ¹
5 Year Plan	TMECS/1RSTX	7,250.00	1,500.00 ¹
Monthly Extension	TMECS/1RSTX	18,000.00	1,500.00
WAN-PHY			
1 Year Plan	TMECS/1RSTX	16,500.00	1,500.00
2 Year Plan	TMECS/1RSTX	13,200.00	1,500.00
3 Year Plan	TMECS/1RSTX	9,600.00	1,500.00 ¹
5 Year Plan	TMECS/1RSTX	8,200.00	1,500.00 ¹
Monthly Extension	TMECS/1RSTX	19,800.00	1,500.00
2. Interoffice Channel Mileage			
		Monthly Rates	
		<u>Fixed</u>	<u>Per Mile</u>
1 Year Plan	1L5XX/JZ68S	2,700.00	300.00
2 Year Plan	1L5XX/JZ68S	1,800.00	250.00
3 Year Plan	1L5XX/JZ68S	1,275.00	125.00
5 Year Plan	1L5XX/JZ68S	1,150.00	100.00
Monthly Extension	1L5XX/JZ68S	3,600.00	425.00
3. Repeater ²			
- each		<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
1 Year Plan	VU4/VU4	6,000.00	None
2 Year Plan	VU4/VU4	4,800.00	None
3 Year Plan	VU4/VU4	3,400.00	None
5 Year Plan	VU4/VU4	2,900.00	None
Monthly Extension	VU4/VU4	7,200.00	None

NOTE 1: Nonrecurring charges are not applicable for new service installed under the 3 or 5 year TPP.

NOTE 2: Applies to additional Repeaters required to provision the service. Does not apply to the first Repeater designed with the service.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.4 DecaMAN® SERVICE (Cont'd)

(N)

H. CURRENT RATES AND CHARGES (Cont'd)

----- CURRENT RATES -----

OPTIONAL FEATURES	USOC CABS/CRIS	Monthly Rate	Nonrecurring Charge
1. Diversity Options			
Local Channel Diversity - per terminating end			
1 Year Plan	CPALX/CPALX	\$3,038.00	\$850.00
2 Year Plan	CPALX/CPALX	2,700.00	850.00
3 Year Plan	CPALX/CPALX	2,250.00	850.00
5 Year Plan	CPALX/CPALX	2,025.00	850.00
Monthly Extension	CPALX/CPALX	3,938.00	850.00
Alternate Wire-Center Diversity - per terminating end			
1 Year Plan	CPAAX/CPAAX	4,860.00	950.00
2 Year Plan	CPAAX/CPAAX	4,320.00	950.00
3 Year Plan	CPAAX/CPAAX	3,600.00	950.00
5 Year Plan	CPAAX/CPAAX	3,240.00	950.00
Monthly Extension	CPAAX/CPAAX	6,300.00	950.00
Inter-Wire Center Diversity - per circuit			
1 Year Plan	CPATX/CPATX	2,025.00	700.00
2 Year Plan	CPATX/CPATX	1,800.00	700.00
3 Year Plan	CPATX/CPATX	1,500.00	700.00
5 Year Plan	CPATX/CPATX	1,350.00	700.00
Monthly Extension	CPATX/CPATX	2,625.00	700.00
2. Protection Options			
Equipment Only Protection - per terminating end			
1 Year Plan	CPAEX/CPAEX	8,250.00	3,000.00
2 Year Plan	CPAEX/CPAEX	7,350.00	3,000.00
3 Year Plan	CPAEX/CPAEX	6,300.00	3,000.00
5 Year Plan	CPAEX/CPAEX	5,400.00	3,000.00
Monthly Extension	CPAEX/CPAEX	9,000.00	3,000.00

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.4 DecaMAN® SERVICE (Cont'd)

(N)

H. CURRENT RATES AND CHARGES (Cont'd)

----- CURRENT RATES -----

	<u>USOC CABS/CRIS</u>	<u>Monthly Rate</u>	<u>Nonrecurring Charge</u>
OPTIONAL FEATURES (Cont'd)			
2. Protection Options (Cont'd)			
Equipment Plus Fiber Path Protection, with ...			
- per terminating end			
Alternate Wire Center			
Path Protection			
1 Year Plan	CPAFX/CPAFX	\$12,300.00	\$4,500.00
2 Year Plan	CPAFX/CPAFX	11,040.00	4,500.00
3 Year Plan	CPAFX/CPAFX	9,600.00	4,500.00
5 Year Plan	CPAFX/CPAFX	8,400.00	4,500.00
Monthly Extension	CPAFX/CPAFX	14,760.00	4,500.00
Local Channel			
Path Protection			
1 Year Plan	CPAGX/CPAGX	10,950.00	4,200.00
2 Year Plan	CPAGX/CPAGX	9,900.00	4,200.00
3 Year Plan	CPAGX/CPAGX	8,550.00	4,200.00
5 Year Plan	CPAGX/CPAGX	7,350.00	4,200.00
Monthly Extension	CPAGX/CPAGX	13,140.00	4,200.00
Inter-Wire Center Path Protection ¹			
- per circuit			
1 Year Plan	CPAHX/CPAHX	1,125.00	625.00
2 Year Plan	CPAHX/CPAHX	600.00	625.00
3 Year Plan	CPAHX/CPAHX	450.00	625.00
5 Year Plan	CPAHX/CPAHX	300.00	625.00
Monthly Extension	CPAHX/CPAHX	1,425.00	625.00
Power Protection			
- per rack or cabinet			
1 Year Plan	VBBGX/VBBGX	625.00	475.00
2 Year Plan	VBBGX/VBBGX	525.00	475.00
3 Year Plan	VBBGX/VBBGX	480.00	475.00
5 Year Plan	VBBGX/VBBGX	435.00	475.00
Monthly Extension	VBBGX/VBBGX	700.00	475.00

NOTE 1: Inter-Wire Center Path Protection must be ordered in conjunction with an Equipment Protection option at each end of the circuit.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET

(N)

12.5.1 SERVICE DESCRIPTION

A. AT&T Dedicated Ethernet is a fiber based, point-to-point, Ethernet service that allows Customers to transport data signals between two locations. AT&T Dedicated Ethernet can be used to transport data as a native Ethernet signal or embedded within an Optical Transport Network (OTN) signal.

AT&T Dedicated Ethernet is available at the following speed and format options:

Speed	Ethernet Formats	Optical Transport Unit (OTU) Formats
1Gbps	1GE - Gigabit Ethernet	Not available
2.5Gbps	Not available	OTU1
10Gbps	10GE LAN-PHY	OTU2e
	10GE WAN-PHY	OTU2
40Gbps	40GE	OTU3
100Gbps	100GE	OTU4

B. Unless otherwise specified in this Section, the general terms and conditions of this Tariff apply to AT&T Dedicated Ethernet (e.g., D2. General Regulations).

C. Port Connection

The Port Connection is the standard rate element that includes the service interface (point of demarcation) at the Customer-designated premises (Customer Site), any network termination equipment (NTE) placed at the Customer Site, and the physical transport facilities from the Customer Site to the AT&T Dedicated Ethernet network at the serving wire center for that Site.

One Port Connection charge applies per Customer Site at which the Port Connection is terminated.

Rates and charges for the Port Connection are provided in paragraph 12.5.5.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

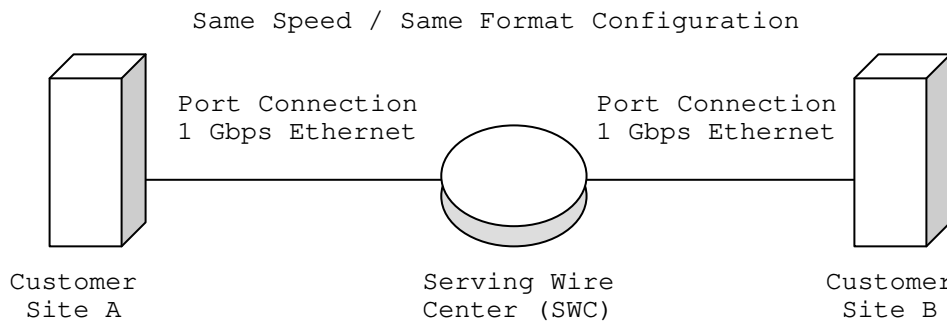
12.5.1 SERVICE DESCRIPTION (Cont'd)

C. Port Connection (Cont'd)

AT&T Dedicated Ethernet is available with the following Port Connection configurations:

a. Same Speed / Same Format

- Ethernet to Ethernet (e.g., 1GE to 1GE); or
- Optical Transport Network (OTN) to Optical Transport Network (OTN) (e.g., OTU1 to OTU1)



This example illustrates a 1 Gbps Ethernet circuit from Customer Site A to Customer Site B for a same speed / same format arrangement. In this example, two - 1 Gbps Ethernet Port Connection charges are applicable.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

12.5.1 SERVICE DESCRIPTION (Cont'd)

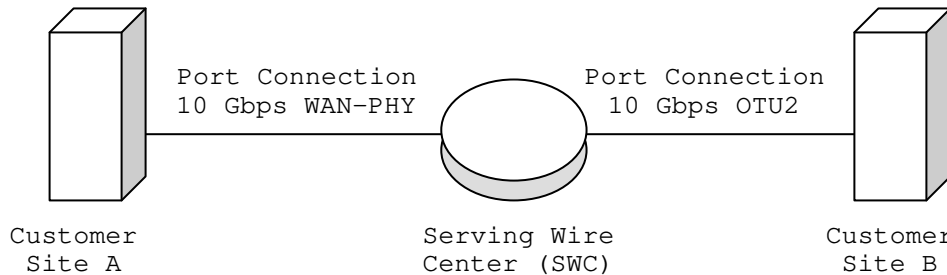
C. Port Connection (Cont'd)

AT&T Dedicated Ethernet is available with the following Port Connection configurations: (Cont'd)

b. Same Speed / Different Format

- Optical Transport Network (OTN) to Ethernet (e.g., 10GE to OTU2)

Same Speed / Different Format Configuration



This example illustrates a same speed / different format circuit configuration where there is a 10Gbps WAN-PHY Port Connection between Customer Site A and the serving wire center and a 10Gbps OTU2 Port Connection between Customer Site B and the serving wire center. In this circuit example, both a 10Gbps WAN-PHY and a 10Gbps OTU2 Port Connection charge would apply.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

12.5.1 SERVICE DESCRIPTION (Cont'd)

D. Protection and Diversity Options (Cont'd)

1. Protection Options

Protection offers a duplicate AT&T Dedicated Ethernet signal routed on two different fiber pairs (a working path and a standby path) to provide increased reliability.

In the event of a failure of the working path, the AT&T Dedicated Ethernet will switch to the surviving path. In the event of a failure to both fiber transmission paths, an out-of-service condition will result.

Limitations:

- Protection is not available for same speed / different format circuit configurations.

The following Protection options are available for AT&T Dedicated Ethernet:

a. Port Protection Plus

Port Protection Plus is an end-to-end (fully protected) protection option that offers a duplicate AT&T Dedicated Ethernet signal routed over two diversely routed fiber paths, a working path and a standby path, from Customer Site to Customer Site. Port Protection Plus also includes dual card protection at each Customer Site whereby the working path and standby paths terminate into two separate cards on a single shelf in the NTE at each of the Customer Sites.

The Port Protection Plus optional feature must be selected for both Customer Sites in addition to the normal Port Connection charges.

Port Protection Plus is available only for AT&T Dedicated Ethernet circuits that meet the following conditions:

- The circuit must be configured as a same speed / same format arrangement.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

12.5.1 SERVICE DESCRIPTION (Cont'd)

D. Protection and Diversity Options (Cont'd)

2. Diversity Options

Diversity options minimize single points of failure by creating two circuits, or portions of a circuit, that are diverse from one another. With these arrangements, one or more circuits will be provisioned over the normal path and one or more circuits will be provisioned over the diverse path. Customers may transport traffic over both circuits.

Customers requesting diversity will be billed for two circuits plus the applicable diversity charge(s) for the portions of the circuit that are physically diverse.

Diversity options do not include construction of dual entrance facilities. If a Customer desires dual entrance facilities and they do not currently exist, arrangements must be made for constructing dual entrance facilities at the Customer's expense.

Limitations:

- Port Diversity and Alternate Wire Center Diversity cannot be selected at the same Customer Site location for the same AT&T Dedicated Ethernet Port Connection.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

12.5.1 SERVICE DESCRIPTION (Cont'd)

D. Protection and Diversity Options (Cont'd)

2. Diversity Options (Cont'd)

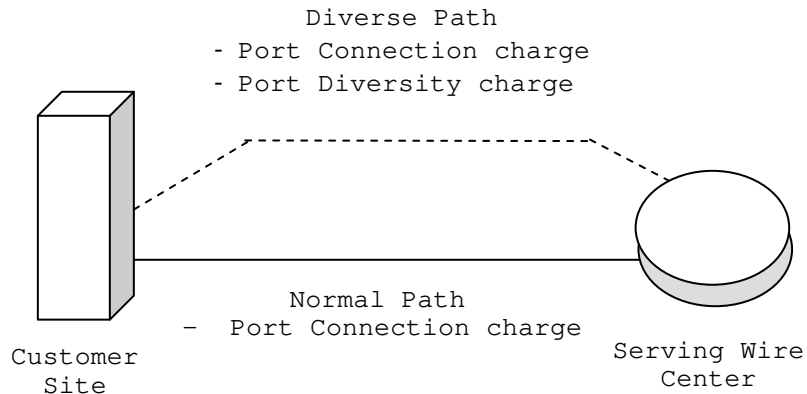
The following Diversity options are available for AT&T Dedicated Ethernet:

a. Port Diversity

Port Diversity is a feature that provides transmission paths (a normal path and a diverse path) which are diverse from each other between two designated AT&T Dedicated Ethernet Port Connections at the same Customer Site and its serving wire center.

The fiber path from each designated Port Connection to its serving wire center will be diverse from each other from the closest available point of divergence (e.g., the closest manhole to the Customer Site). These two designated Port Connections must be purchased by the same Customer.

Port Diversity requires the Customer to purchase duplicate Port Connections (to establish a normal path and a diverse path) from the Customer Site(s) to its serving wire center(s). In addition, a Port Diversity charge applies on the diverse path circuit for each pair of designated Port Connections at any Customer Site where Port Diversity is requested.



(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

12.5.1 SERVICE DESCRIPTION (Cont'd)

D. Protection and Diversity Options (Cont'd)

2. Diversity Options (Cont'd)

The following Diversity options are available for AT&T Dedicated Ethernet: (Cont'd)

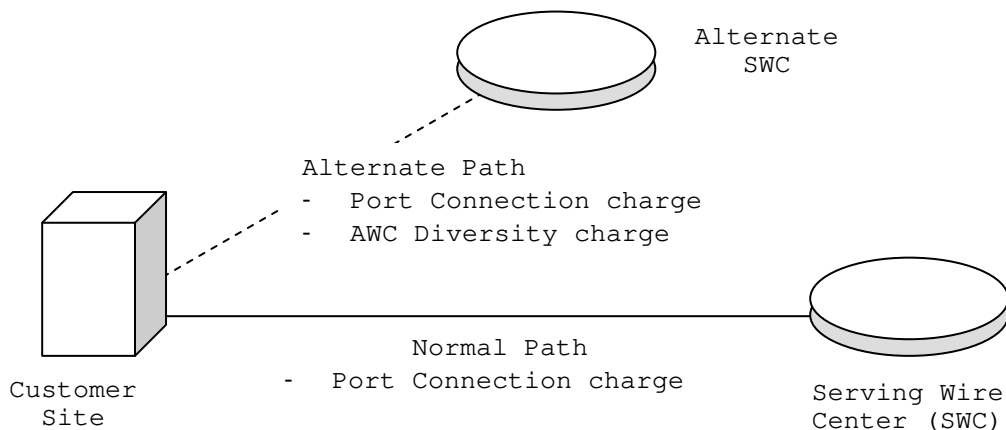
b. Alternate Wire Center Diversity

(1) Alternate Wire Center Diversity is a feature that provides transmission paths (a normal path and a diverse path), which are diverse from each other between two designated AT&T Dedicated Ethernet Port Connections at the same Customer Site whereby the normal path is routed to its normal serving wire center and the diverse path is routed to an alternate wire center.

The Company will choose the alternate wire center that is capable of providing AT&T Dedicated Ethernet over the alternate route.

The fiber path from each designated Port Connection to its applicable serving wire center (normal and alternate) will be diverse from each other from the closest available point of divergence (e.g., the closest manhole to the Customer Site). These two designated Port Connections must be purchased by the same Customer.

Alternate Wire Center Diversity requires the Customer to purchase duplicate Port Connections (to establish a normal path and a diverse path) from the Customer Site(s) to the applicable serving wire center(s). In addition, an Alternate Wire Center Diversity charge applies on the diverse path circuit for each pair of designated Port Connections at any Customer Site where Alternate Wire Center Diversity is requested.



(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

12.5.1 SERVICE DESCRIPTION (Cont'd)

D. Protection and Diversity Options (Cont'd)

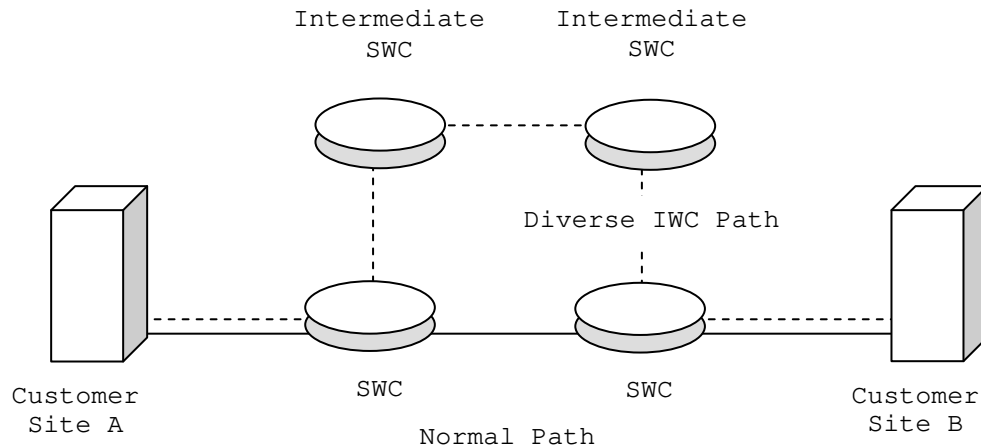
2. Diversity Options (Cont'd)

c. Inter-Wire Center (IWC) Diversity

Inter-Wire Center Diversity is a feature that provides a transmission path between the serving wire centers for each end of the circuit that is separate from the normal transmission path. IWC Diversity arrangements are available only where each end of an AT&T Dedicated Ethernet circuit is provided from a different serving wire center.

Inter-Wire Center (IWC) Diversity requires the Customer to purchase duplicate Port Connections from each Customer Site to each serving wire center. An Inter-Wire Center Diversity charge applies to the AT&T Dedicated Ethernet circuit designated with the diverse IWC path.

The Inter-Wire Center Diversity option can be selected on its own or in combination with the Port Diversity and Alternate Wire Center Diversity options.



In the IWC Diversity example above, there are two AT&T Dedicated Ethernet circuits between Customer Site A and Customer Site B as follows:

- Circuit #1 is the normal path circuit and consists of two Port Connection charges.
- Circuit #2 has the Inter-Wire Center Diversity feature to provide a diverse IWC path from circuit #1. Circuit #2 consists of two Port Connection charges plus an Inter-Wire Center Diversity charge.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

12.5.1 SERVICE DESCRIPTION (Cont'd)

E. Meet Point Arrangements

Meet Point Arrangements are not supported for AT&T Dedicated Ethernet.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

12.5.1 SERVICE DESCRIPTION (Cont'd)

E. Meet Point Arrangements

In some cases, the Company and another Incumbent Local Exchange Carrier (C) (ILEC, sometimes referred to as an Independent Company or ICO) may (N) agree to jointly provide service where such service will be provided to locations in both the Company's and the other ILEC's serving territories within the same LATA. In such cases, the Company and the other ILEC may mutually agree to meet at a location (i.e., meet point) within the LATA utilizing facilities suitable for delivery of AT&T Dedicated Ethernet.

The Company is responsible for the ordering, provisioning, billing and maintenance of such AT&T Dedicated Ethernet service up to the meet point.

The rates and charges for AT&T Dedicated Ethernet are applicable for the Company provided portion of such service as follows:

- One Port Connection charge applies for the portion of the circuit provided by the Company.
- The Administrative Charge applies in full per order received.
- The Design and Central Office Connection Charge applies in full per AT&T Dedicated Ethernet circuit.
- The Customer Connection Charge applies for the termination of the Port Connection provided by the Company.

Service Level Agreement (SLA) credits in paragraph 12.5.4, A.1 will apply only to the Company provided portion of the service.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

12.5.3 ETHERNET PAYMENT PLAN (EPP) (Cont'd)

A. Standard Terms and Conditions (Cont'd)

4. When an EPP term or subsequent 12 month extension period expires (and the Customer's term is not extended pursuant to the Auto Renewal option above), the Customer may select a new EPP term from among any EPP options which are then available to new Customers hereunder. EPP rates in effect at the time the new EPP term starts will apply. An Administrative Charge is applicable when Customers select a new EPP term.
5. The Monthly Extension Rates in paragraph 12.5.5. *Rates and Charges* will apply when a Customer's EPP term or subsequent 12 month extension period expires (and the Customer's term is not extended pursuant to the Auto Renewal option above). The Customer will be billed the Monthly Extension rates then in effect until such time as the Customer selects a new EPP or the service is terminated.
6. Termination Liability will apply if the service is disconnected prior to the end of the selected EPP term. Termination Liability will be determined based on the number of months remaining in the EPP term times 50% of the applicable EPP monthly rates, calculated as follows:

$$\text{Termination Liability Charge} = (\text{EPP Monthly Recurring rate}) \times (\text{months remaining in EPP term}) \times (50\%)$$

Example:

An AT&T Dedicated Ethernet Customer with a \$6,000.00 monthly rate terminates service after 2 years with 1 year (12 months) remaining in a 3 year EPP. The termination liability charge would be calculated as:

$$\text{Termination Liability Charge} = \$6,000 \times 12 \times .50 = \$36,000.00$$

7. Conversions

During the Customer's EPP term, conversions may be made to a new EPP term of the same or greater length, from among any EPP options which are then available to new Customers hereunder. The expiration date of the new EPP term must be beyond the expiration date of the original EPP term. With the conversion to the new EPP term, the Customer incurs no liability for the remaining months on the original EPP term.

An *Administrative Charge* is applicable when Customers select a new EPP term or change the length of an existing EPP term.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

12.5.3 ETHERNET PAYMENT PLAN (EPP) (Cont'd)

B. Moves

Moves will be treated as a discontinuance of service and activation of new service. The previously waived non-recurring charges at the location(s) from which the circuit is being moved will be billed (if EPP term has not expired).

The Customer must select an EPP term for the new circuit. The new EPP term will be subject to the rates in effect at the time of the move. Termination Liability will apply for such a move except where all of the following conditions apply:

- The move is limited to one end of the AT&T Dedicated Ethernet circuit to a different Customer Site in the same LATA.
- The Customer's existing service must have been in place for at least 12 months.
- The Customer must select a new EPP with a term that is greater than or equal to the remainder of the existing EPP.
- Orders from the Customer to disconnect the existing service and reestablish service at the new location must be placed by the same Customer and received by the Company on the same date.
- No lapse in billing will occur for moves of service under an EPP. If the Customer requests that both the existing AT&T Dedicated Ethernet circuit and the new AT&T Dedicated Ethernet circuit be in service at the same time, such "overlapping" service shall be provided for no more than 30 days, and all applicable charges will be billed for both circuits during the period of overlapping service.
- Spare facilities and equipment must be available or *Special Construction* charges, as set forth in this Tariff, shall apply.

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

12.5.5 RATES AND CHARGES

<u>Description</u>	<u>USOC</u>	<u>Monthly Payment</u> <i>Ethernet Payment Plans</i>				<u>Monthly Extension Rate</u>
		<u>12 Months</u>	<u>24 Months</u>	<u>36 Months</u>	<u>60 Months</u>	
<i>Port Connection</i>						
1 Gbps Ethernet	EYFNX	\$3,750.00	\$3,500.00	\$3,200.00	\$2,750.00	\$4,250.00
OTU1 (2.5Gbps)	EYFOX	7,500.00	7,000.00	6,400.00	5,500.00	8,500.00
<i>10 Gbps Ethernet</i>						
LAN-PHY	EYFNX	11,750.00	11,000.00	10,000.00	8,500.00	13,250.00
WAN-PHY	EYFNX	11,750.00	11,000.00	10,000.00	8,500.00	13,250.00
<i>OTU2/2e</i>						
(10Gbps)	EYFOX	12,925.00	12,100.00	11,000.00	9,350.00	14,575.00
<i>40 Gbps</i>						
Ethernet	EYFNX	29,375.00	27,500.00	25,000.00	21,250.00	33,125.00
OTU3 (40Gbps)	EYFOX	29,375.00	27,500.00	25,000.00	21,250.00	33,125.00
<i>100 Gbps</i>						
Ethernet	EYFNX	41,125.00	38,500.00	35,000.00	29,750.00	46,375.00
OTU4 (100Gbps)	EYFOX	45,250.00	42,350.00	38,500.00	32,725.00	51,000.00

(N)

Continued

OTHER SERVICES

D12. SPECIAL ACCESS SERVICE

12.5 AT&T DEDICATED ETHERNET (Cont'd)

(N)

12.5.5 RATES AND CHARGES (Cont'd)

<u>Description</u>	<u>USOC</u>	<u>Nonrecurring Charge</u>
<i>Installation and Rearrangement Charges</i>		
Administrative Charge ¹ - per Order	ORCMX	\$60.00
Design & Central Office Connection Charge ¹ - per Circuit	NRBCL	600.00
Customer Connection Charge ¹ - per Port Connection	NRBBL	1,500.00

Note 1: The Nonrecurring Charges will be waived for Customers selecting the 24 Months, 36 Months, or 60 Months Ethernet Payment Plan period for new service.

(N)

Continued