CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

LIST OF EFFECTIVE SHEETS

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

Number of		Number of		Number of		Number of	
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$11 th^1$	CS A	Original	28	Original	53	1st	79
2nd	ToC A	1st	29	Original	54	1st	80
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Original	2	Original	30	Original	56	1st	80.2
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Original	8	Original	35	1st	62	1st	84
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Original	23.1	Original	48	1st	74	Original	96
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						Original	99.1

NOTE 1: Issued

CC: 5170

Rhonda Johnson

CATEGORY III SERVICES

D12. SPECIAL ACCESS SERVICE

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Cynthia Wales

Executive Director

Date Filed: Dec. 11, 2003 Effective: Jan. 20, 2004 Resolution No.

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

12.1 MULTI-SERVICE OPTICAL NETWORK

A. SERVICE DESCRIPTION

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

Multi-service Optical Network (MON) Service is only available within the Local Access Transport Areas (LATAs) served by and within service territories of Pacific Bell.

Multi-service Optical Network Service (MON) can be used to extend customer networks to off-site locations, which are premises of the customer. These include but are not limited to disaster recovery, Storage Area Networking connections (SANs), data center mirroring, and mainframe to mainframe communications.

Multi-service Optical Network (MON) Service offers a MON Transport System and MON Channels with the following port interfaces¹:

Protocols The following IBM² (or compatible) Protocols:

 $\mathrm{ESCON}^{\mathbb{TM}}$ (200 Mbps) - Enterprise Systems Connection. An IBM duplex optical connection used for computer-to-computer data exchange. $\mathrm{ESCON}^{\mathbb{TM}}$ is limited to a maximum distance of 43 km and actual data throughput is distance sensitive.

 $\texttt{ETR}^{\texttt{TM}}$ (8 Mbps - Manchester Encoded) - External Timing References. This protocol is used for IBM <code>GEOPLEX^{\texttt{TM}}</code> architecture for multiple-location host processors. $\texttt{ETR}^{\texttt{TM}}$ is limited to a maximum distance of 40 km.

NOTE 1: Channel protection may not be available for all interface types. NOTE 2: ESCON[™], ETR[™], FICON[™] and ISC[™] and GEOPLEX[™] are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.

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Linda S. Vandeloop

	CATEGORY III SERVICES	/ እ
	D12. SPECIAL ACCESS SERVICE	(1)
12.1 A.	MULTI-SERVICE OPTICAL NETWORK (Cont'd) SERVICE DESCRIPTION (Cont'd) Multi-service Optical Network (MON) Service offers a MON Transport System and MON Channels with the following port interfaces ¹ : (Cont'd) <u>Protocols</u> (Cont'd) The following IBM ¹ (or compatible) Protocols: (Cont'd)	
	FICON [™] (1.0625 Gbps) - A higher-speed evolution of ESCON [™] , enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. FICON [™] may have distance limitations and actual data throughput is distance sensitive.	
	ISC^{TM} (1.0625 Gbps) - Inter-System Coupling. This protocol (or a compatible protocol) is used with IBM GEOPLEX TM architecture for multiple-location host processors. ISC is limited to a maximum distance of 40 km.	
	Other protocols:	
	Fibre Channel (1.0625 Gbps) - an industry standard protocol used to interconnect Storage Area Networks (SANs).	
	Fast Ethernet - a version of Ethernet that allows data transmission rates of 100 Mbps. Also called "100BaseT".	
	FDDI - operating at a data rate of 100 megabits per second, FDDI is used to provide a general purpose interconnection between computers and peripheral equipment, including the interconnection of Local Area Networks (LANS) and other networks.	
	Gigabit Ethernet – a version of Ethernet that allows data transmission rates of 1 Gbps. Also called "1000 BaseFX". Available at 850 nm or 1310 nm interface.	
	D1 Video - uncompressed digital video signal operating at 270 Mbps.	
IOTE	1: ESCON [™] , ETR [™] , FICON [™] and ISC [™] and GEOPLEX [™] are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504.	(N

Linda S. Vandeloop

	CATEGORY III SERVICES	/ -
	D12. SPECIAL ACCESS SERVICE	(]
12.1 A.	MULTI-SERVICE OPTICAL NETWORK (Cont'd) SERVICE DESCRIPTION (Cont'd) Multi-service Optical Network (MON) Service offers a MON Transport System and MON Channels with the following port interfaces ¹ : Other Protocols: (Cont'd)	
	SONET OC-3/OC3c - provides a fiber-based 155.52 Mbps synchronous optical full duplex data transmission capability.	
	SONET OC-12/OC-12c - provides a fiber-based 622.08 Mbps synchronous optical full duplex data transmission capability.	
	SONET OC-48 provides a fiber -based 2488.32 Mbps synchronous optical full duplex data transmission capability.	
	SONET Flexible Speed- provides a fiber-based 155.52 Mbps or 622.08 Mbps synchronous optical full duplex data transmission capability.	
	The Sub-Rate System provides a multiplexing system operating at 1.25Gbps with 4 ports. Applicable to $ESCON^{TM}$, Fast Ethernet, FDDI, D1 Video and OC-3 port interfaces.	
	Neither electrical interfaces nor optical add/drop multiplexing are available with this service. Additionally, services with time- delay sensitive protocols have facility length limitations and may affect the design/availability of MON (e.g. CPU to CPU communications have a maximum distance limitation of 60km).	
NOTE	1: ESCON TM , ETR TM , FICON TM and ISC TM and GEOPLEX TM are registered trademarks of the International Business Machines (IBM) Corporation,	

Date Filed: Nov. 5, 2001 Effective: May 23, 2002 Resolution No.

Linda S. Vandeloop Executive Director

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CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd)
 - B. REGULATIONS

The regulations, rates and charges specified herein are in addition to other regulations, rates and charges as specified in this and Schedule Cal.P.U.C 175-T are applicable.

Multi-service Optical Network (MON) Service is primarily designed to meet the private line communications requirements of business customers, and the regulations herein reflect the reasonable support on the part of the Utility in assisting the customer in the ordering and provisioning of MON service.

The Utility will continue to assist and advise the customer and cooperatively respond to the requirements of the customer until such time as the MON service is discontinued. The aforementioned level of assistance is considered to be part of the MON service offering.

- C. PROVISION OF SERVICE
 - 1. Multi-service Optical Network (MON) Service can only be provided within the same LATA where existing facilities and equipment and/or operating conditions permit. MON Service between serving wire centers must have appropriate service components between all intermediate offices to have the ability to provide MON service. Additional service features may be available only at selected central offices as determined by the Utility.
 - Where facilities, equipment and/or operating conditions are not available, Special Construction as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15 shall apply.
 - 3. The customer provided equipment must deliver the data signals for the Multi-service Optical Network (MON) Service transport within the industry specification for the subscribed data services.
 - 4. Multi-service Optical Network (MON) Service provides physical layer transport only. The Company assumes no responsibility for the signals generated by the customer, for the quality of or defects in such signals, for the reception of 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.

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CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) C. PROVISION OF SERVICE (Cont'd)
 - 5. Multi-service Optical Network Service may have distance limitations based on the services carried and may require routing through other central offices based on loss limits between nodes. The Utility will determine the path of the transmission in these cases.
 - Central Office Optical Amplifiers may need to be added to a Multi-service Optical Network (MON) Service subsequent to the initial installation.
 - 7. When additional services are added, such installation may cause a service interruption to existing unprotected channels, or a protection switch on protected channels.
 - 8. The maximum capacity of a SBC Multi-service Optical Network (MON) Service system is either 64 unprotected channels or 32 protected channels.
 - 9. Prior to confirming an order for service, the Utility will provide a proposed route diagram to the customer. The diagram will include the number of route quarter mile increments and method used to support the number needed to provide the alternate route to the alternate wire center, depending on the Diversity option selected. To avoid compromising diversity information, the Utility will provide this information only to the ordering customer.
 - 10. Installation of either the Channel Termination Route Diversity option, the Inter-office Facility Route Diversity option or the Total Route Diversity option will not begin until the customer has accepted the proposed routing by the Company.
 - 11. Services with time-delay sensitive protocols have facility length limitations. The Utility will work cooperatively with the customer to determine if the desired services can operate between the customers designated premises.
 - 12. Demarcation/ MPOE requirements as set forth in Schedule Cal.P.U.C. No. 175-T, Section 2.6 are applicable.

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CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) C. PROVISION OF SERVICE (Cont'd)
 - 13. Digital equipment provided by the customer is subject to rules and regulations set forth in Schedule Cal. P.U.C. No. 175-T, Section 2.3.
 - 14. The customer must first order the MON Transport system followed by the MON channels. When ordering ESCON[™], FDDI, Fast Ethernet, D1 Video and OC3, the customer must first order a MON Channel sub-rate system over which these services will be assigned.
 - 15. Multi-Service Optical Network (MON) is not available in a Meet Point Billing configuration as set forth in Schedule Cal.P.U.C. No. 175-T, Sections 2.48 and 5.2.10.

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CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

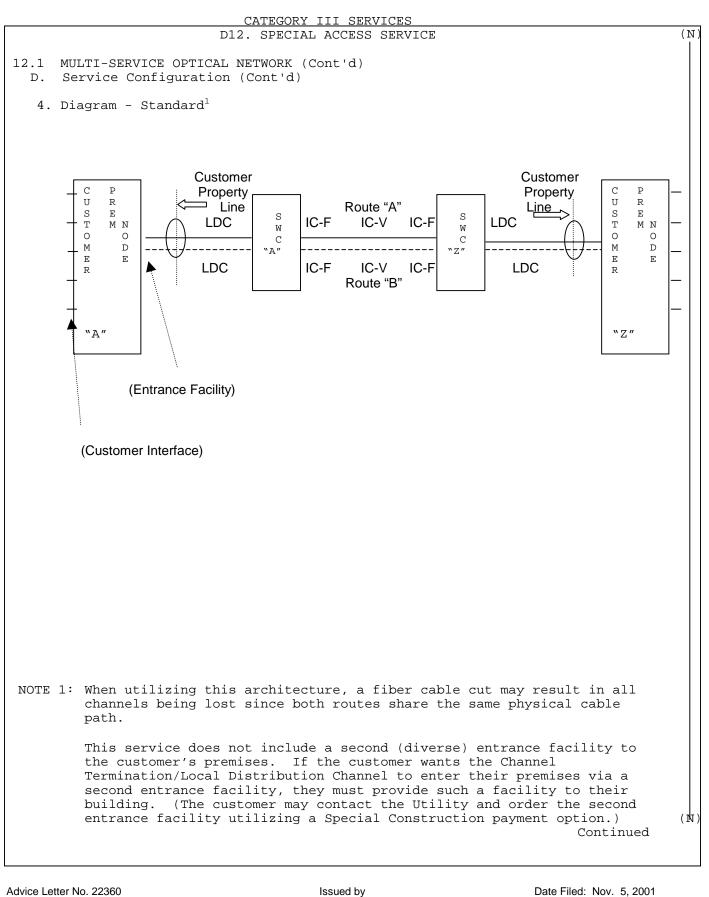
- 12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd)
 - D. SERVICE CONFIGURATION

Multi-service Optical Network Service is available in three different configurations. The customer must choose, on a channel basis between:

- 1. An unprotected channel configuration, (see a.) following, (maximum capacity of 64 channels), or
- 2. a protected channel configuration, (see b.) following, (maximum capacity of 32 channels) or,
- 3. a mixed channel configuration, (see c.) following which includes both unprotected and protected (active/stand-by) channels. (In this configuration, neither route may exceed the 32 channel capacity limit, including stand-by protected channels.)
 - a. <u>Unprotected channel</u> configuration route "A" and route "B" can each carry up to 32 channels between the customer's designated premises. In the event of a route failure, the customer loses the channels utilizing the failed route.
 - b. <u>Protected channel configuration</u> all active protected channels are carried over route "A" between the customer's designated premises. All stand-by protected channels are carried over route "B". In the event of a failure on route "A", all active protected channel transmissions will be restored to route "B" stand-by protected channels within an engineered objective of less than 50 milliseconds (not to exceed 2 seconds).
 - c. <u>Mixed channel configuration</u> up to 32 channels are available on each route to carry unprotected or protected (active/stand-by) channels. (An active protected channel on one route requires a stand-by protected channel on the other route.) In the event of a route failure, the active protected channel transmissions will be restored to the other route stand-by protected channels within an engineered objective of less than 50 milliseconds (not to exceed 2 seconds). Unprotected channels on the failed route will be lost.

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Effective: May 23, 2002 Resolution No.

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CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd)
 - E. OPTIONAL FEATURES
 - 1. Channel Termination Route Diversity/Local Distribution Channel Route Diversity

This option, ordered on a per-end basis, routes the customer's service across two physically diverse Channel Termination routes to their Serving Wire Center (SWC). Channel Termination Route Diversity will assure 99.995 percent availability of the service over the protected portion of the route. Any service interruption will result in a credit allowance as described in Schedule Cal.P.U.C. 175-T, Section 2.2.4.

(See diagram on Sheet 10 following)

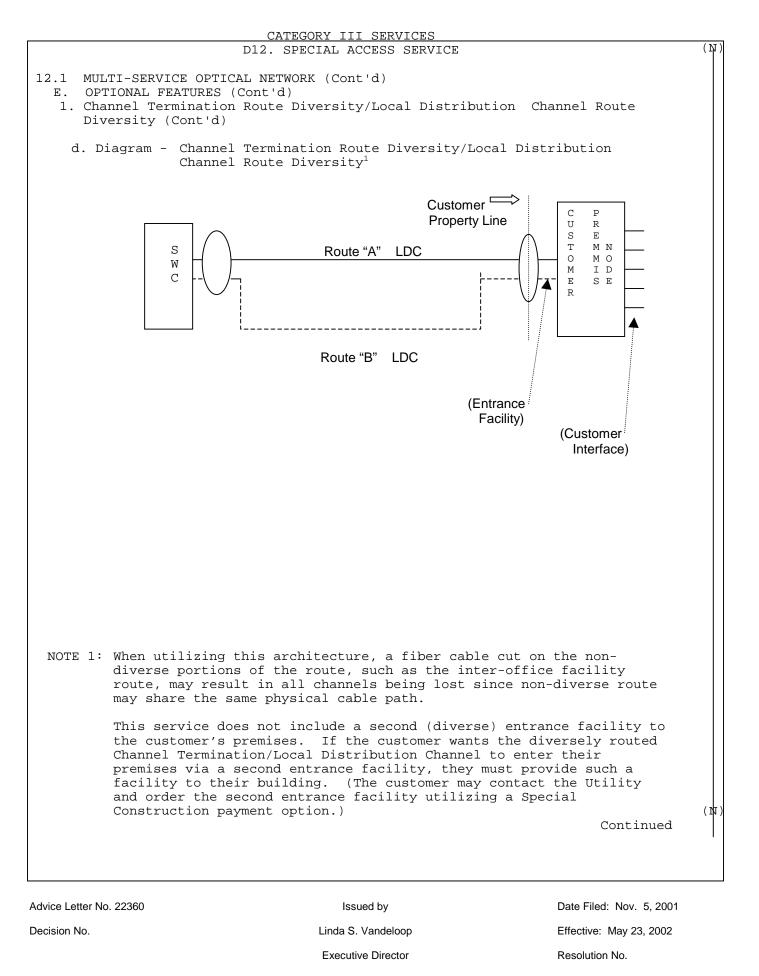
- a. <u>Unprotected Channel</u> If the customer selects this option in the unprotected channel configuration, both route "A" and route "B" transport up to 32 active, unprotected channels to the SWC. In the event of a route failure, the customer loses the channels utilizing the failed route.
- b. <u>Protected Channel</u> If the customer selects this option in the protected channel configuration, all active protected channels are carried over route "A" to the SWC. All stand-by protected channels are carried over route "B". In the event of a failure on route "A", all active protected channel transmissions will be restored to route "B" stand-by protected channels within an engineered objective of less than 50 milliseconds (not to exceed 2 seconds).
- c. <u>Mixed Channel</u> If the customer selects this option in the mixed channel configuration, up to 32 channels are available on each route to carry unprotected or protected (active/stand-by) channels. (An active protected channel on one route requires a stand-by protected channel on the other route.) In the event of a route failure, the active protected channel transmissions will be restored to the other route stand-by protected channels within an engineered objective of less than 50 milliseconds (not to exceed 2 seconds). Unprotected channels on the failed route will be lost.

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Executive Director



CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) E. OPTIONAL FEATURES (Cont'd)
 - 2. Interoffice Channel Route Diversity

This option routes the customer's service across two physically diverse paths between the Serving Wire Centers of the customer's designated premises.

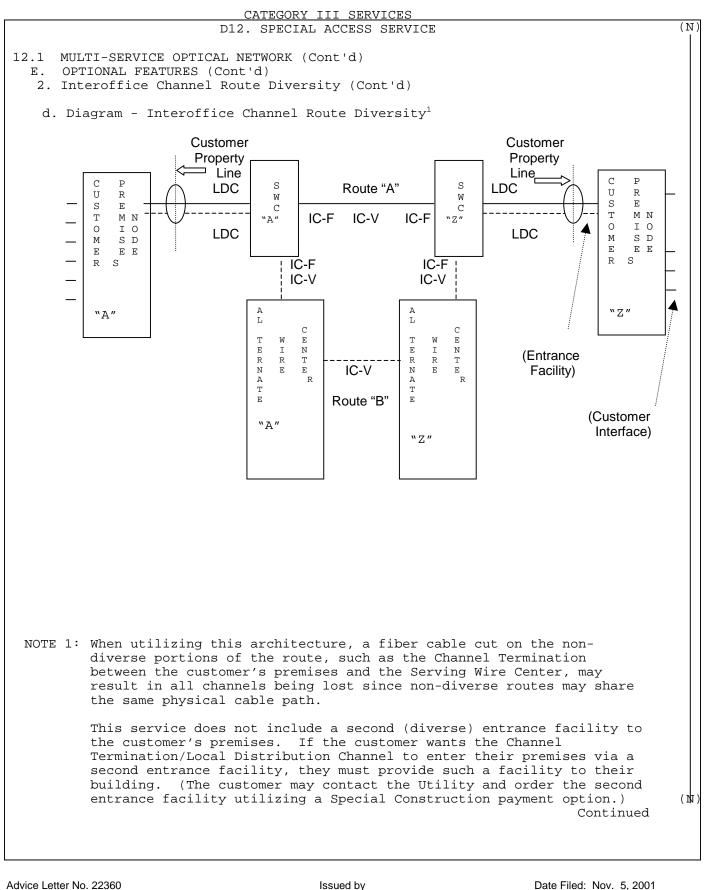
This option will assure 99.995 percent availability of the service over the protected portion of the route. Any service interruption will result in a credit allowance as described in Schedule Cal.P.U.C. 175-T, Section 2.4.4.

(See diagram on Sheet 12 following.)

- a. <u>Unprotected Channel</u> If the customer selects this option in the unprotected channel configuration, both route "A" and route "B" transport up to 32 active, unprotected channels between the customer designated premises. In the event of a route failure, the customer loses the channels utilizing the failed route.
- b. Protected Channel If the customer selects this option in the protected channel configuration, all active protected channels are carried over route "A" between the customer's designated premises. All stand-by protected channels are carried over route "B" (alternate route). In the event of a failure on route "A", all active protected channel transmissions will be restored to route "B" stand-by protected channels within an engineered objective of less than 50 milliseconds (not to exceed 2 seconds).
- c. <u>Mixed Channel</u> If the customer selects this option in the mixed configuration, up to 32 channels are available on each route to carry unprotected or protected (active/stand-by) channels. (An active protected channel on one route requires a stand-by protected channel on the other route). In the event of a route failure, the active protected channel transmissions will be restored to the other route stand-by protected channels within an engineered objective of less than 50 milliseconds (not to exceed 2 seconds). Unprotected channels on the failed route will be lost.

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Decision No.

Linda S. Vandeloop

Effective: May 23, 2002 Resolution No.

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) E. OPTIONAL FEATURES (Cont'd)
 - 3. Total Channel Route Diversity

This option routes the customer's service across two physically diverse paths between the customer's designated premises. Channel terminations are routed to both the Serving Wire Center (SWC) of the premises and to an Alternate Wire Center (selected by the Utility). Interoffice Channels are utilized to connect the wire center terminated Chan Terms. A different interoffice Channel path is utilized to connect the two Alternate Wire Centers that were selected as termination points for the diversely routed Channel Terminations.

This option will assure 99.995 percent availability of the service. Any service interruption will result in a credit allowance as described in Section 2.4.4 preceding.

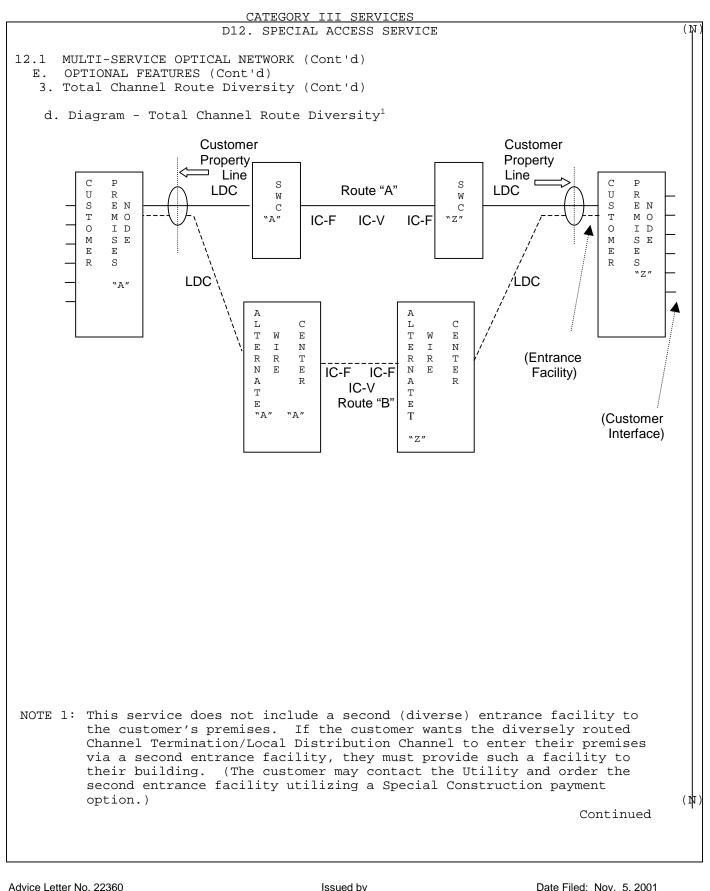
(See diagram on Sheet 14 following.)

- a. <u>Unprotected Channel</u> If the customer selects this option in the unprotected channel configuration, both route "A" and route "B" transport up to 32 active, unprotected channels between the customer designated premises. In the event of a route failure, the customer loses the channels utilizing the failed route.
- b. Protected Channel If the customer selects this option in the protected channel configuration, all active protected channels are carried over route "A" between the customer's designated premises. All stand-by protected channels are carried over route "B" (alternate route). In the event of a failure on route "A", all active protected channel transmissions will be restored to route "B" stand-by protected channels within an engineered objective of less than 50 milliseconds (not to exceed 2 seconds).
- c. <u>Mixed Channel</u> If the customer selects this option in the mixed configuration, up to 32 channels are available on each route to carry unprotected or protected (active/stand-by) channels. (An active protected channel on one route requires a stand-by protected channel on the other route). In the event of a route failure, the active protected channel transmissions will be restored to the other route stand-by protected channels within an engineered objective of less than 50 milliseconds (not to exceed 2 seconds). Unprotected channels on the failed route will be lost.

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Continued

Advice Letter No. 22360



Linda S. Vandeloop

Executive Director

	CATEGORY III SERVICES D12. SPECIAL ACCESS SERVI	ICE	(N)
12.1	MULTI-SERVICE OPTICAL NETWORK (Cont'd)		
F.	TECHNICAL REQUIREMENTS		
	Technical Specifications		
	The customer interfaces to Multi-service Opti specified in:	cal Network service are as	
	Subject	Technical Reference	
	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 and OC-48 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 Ameritech Technical Interface	AM-TR-TMO-000080	
	Specifications (FDDI)	AM-TR-MIS-000077	
	FDDI ANSI/ Ameritech Technical Interface	IEEE 802.3	
	Specifications ($ESCON^{TM}$) IBM Documentation ($ESCON^{TM}$)	AM-TR-NIS-000096 AM-TR-NIS-000107 IBM SA22-7202-XX IBM SA23-0394-XX	(N)

	CATEGORY III SERVICES		
	D12. SPECIAL ACCESS SERV	ICE	(N)
12.1 F.	MULTI-SERVICE OPTICAL NETWORK (Cont'd) TECHNICAL REQUIREMENTS (Cont'd) Technical Specifications (Cont'd)		
	The customer interfaces to Multi-service Opti specified in:	cal Network service are as	
	Subject	Technical Reference	
	Fibre Channel (also includes $FICON^{TM}$ and ISC^{TM})	ANSI X3.T9.3	
	Fast Ethernet A	NSI/IEEE 802.3	
	GigaBit Ethernet D1 Video	IEEE 802.3x and z ANSI/SMPTE 259M	
	The Technical Reference can be obtained from: APEx Help Desk (847) 248-5324		
	The Telcordia Technologies Research Publicati from:	on(s) can be obtained	
	Telcordia Technologies 8 Corporate Place		
	Piscataway, New Jersey 08854		(N)

Advice Letter No. 22360

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CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd)
 - G. CREDIT ALLOWANCE FOR SERVICE INTERRUPTIONS

Unless otherwise specified in this tariff, Credit Allowance for Service Interruptions as set forth in Schedule Cal.P.U.C. No. 175-T, Section 2.4.4 are applicable.

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Advice Letter No. 22360

Executive Director

	CATEGORY III SERVICES	
	D12. SPECIAL ACCESS SERVICE	(N)
12.1	MULTI-SERVICE OPTICAL NETWORK (Cont'd)	
H.	RATE REGULATIONS	
	The following rate elements are applicable to Multi-service Optical Network Service:	
	Channel Termination/Local Distribution Channel Interoffice Mileage Customer Premises Node Central Office Amplifier Central Office Regenerator Ports	
	Optional Features Nonrecurring Charges Term Payment Plans Monthly Extension Rate	
1	. <u>Channel Termination/Local Distribution Channel</u> A minimum of four (4) Channel Terminations/Local Distribution Channels are required per standard arrangement (two per route).	
2	. <u>Interoffice Mileage</u> Interoffice mileage is calculated using the V & H coordinate method described in Schedule Cal.P.U.C. 175-T, Section 7.4.6. Two mileage routes are required for a MON standard arrangement.	
3	. <u>Customer Premises Nodes</u> Provides termination of the service on a per shelf basis, and presents the various selected ports to the customer's equipment. Minimum 2 nodes required.	
4	. <u>Central Office Amplifier</u> Provides for an optical signal boost if the distance between nodes exceeds the transmission loss parameters (link loss specific). Engineering considerations will dictate the need for more than one optical amplifier on a circuit route as required per location.	
5	. <u>Central Office Regenerator</u> Provides for re-timing, re-shaping and regeneration of the signal if degradation exceeds the dispersion limits. Engineering considerations will dictate the need for a regenerator. A regenerator is required for each Optical Add/Drop Multiplexer (OADM).	
6	. <u>Ports</u> Provides the channel interface at the customer's premises. All node ports that connect to the same individual wavelength or channel within a MON system must be of the same access speed.	(N)
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Linda S. Vandeloop

Executive Director

CATEGORY III SERVICES (N) D12. SPECIAL ACCESS SERVICE 12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) H. RATE REGULATIONS (Cont'd) 7. Optional Features Diversity Options The following applies when ordering either the: a. Channel Termination Route Diversity option, b. Inter-office Facility Route Diversity option or c. Total Route Diversity option, and are in addition to the standard arrangement Channel Termination charges. Channel Termination Route Diversity (a) may be ordered in addition to Inter-Office Route Diversity Route Diversity (b), and the ordering of those two will not comprise Total Route Diversity (c). Total Route Diversity (c) would be ordered instead of Channel Term Route Diversity (a) and Inter Office Facility Route Diversity (b). (a) Channel Termination Route Diversity/Local Distribution Channel Route Diversity The protect/alternate route fiber will be charged on a distance sensitive basis, based on quarter miles from the customer premises to the serving wire center or alternate wire center. Ordered on a perend basis. (b) Inter-office Facility Route Diversity Routes the service across two physically diverse paths between the SWCs of the customer's designated premises. Channel Mileage will be charged between the two alternate wire centers using the V & H coordinates method as stated in Schedule Cal.P.U.C. No. 175-T, Section 7.4.6. (c)Total Route Diversity Routes the service across two physically diverse paths between the customer's designated premises. Channel Terminations are routed to the SWC of the premises and to an Alternate Wire Center (selected by the Utility). Interoffice facilities are utilized to connect the wire center terminated Channel Terminations. A different Interoffice facility path is utilized to connect the two Alternate Wire Centers that were selected as termination points for the diversely routed Channel Terminations. (N)

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Advice Letter No. 22360

Linda S. Vandeloop

Executive Director

CATEGORY III SERVICES (N) D12. SPECIAL ACCESS SERVICE 12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) H. RATE REGULATIONS (Cont'd) 7. Optional Features (Cont'd) Diversity Options (Cont'd) c)Total Route Diversity (Cont'd) Two Channel Termination Diversity charges are required. - Channel Termination mileage will be charged on a distance sensitive basis, based on quarter miles from the customer premises to the serving wire center or alternate wire center for the protect/alternate route fiber. - Inter-office Route Diversity Channel Mileage will be charged between the two alternate wire centers using the V & H coordinates method as stated in Schedule Cal.P.U.C.175-T, Section 7.4.6. 8. Nonrecurring Charges - Administrative Charge, per customer order - Design and Central Office Connection Charge, per customer location - Customer Connection Charge, per prem node 9. Term Payment Plans Multi-service Optical Network (MON) Service is offered under a Term Payment Plan (TPP). The minimum service period for Multi-service Optical Network (MON) Service is 36 months. (N)

Continued

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd)

- H. RATE REGULATIONS (Cont'd)
- 9. Term Payment Plans (Cont'd)

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

The customer must provide the Utility with a written notice of intent to renew a Term Pricing Plan no later than 90 days prior to its expiration. If a customer chooses to renew a Term Pricing Plan, the monthly rates for the new TPP selected will be at the current rates in effect for new customers. If the customer elects not to renew the Term PRICING Plan, or does not notify the Utility of their intent to renew the Term Pricing Plan, the service will automatically be billed under the Monthly Extension Rate in effect at the time the Term Pricing Plan expires. Monthly Extension Rates are not available to new customers.

Any special construction charges incurred for services billed under a Term Pricing Plan will be applicable as set forth in Schedule Cal.P.U.C. No. 175-T, Section 15.

The customer may choose to terminate an existing TPP plan 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 then the existing TPP. No credit for months under the previous TPP may be transferred to the new TPP.

During a TPP term a customer may rearrange or move one Channel Termination of the Multi-service Optical Network (MON) Service to another location in the same LATA without incurring the Termination Liability, provided no lapse in service occurs. Nonrecurring Charges as appropriate will apply.

If a customer cancels a Service Order for MON service charges as set forth in Schedule Cal.P.U.C. No. 175-T, Section 5 will apply.

If a customer terminates service before the completion of the term for any reason whatsoever other than as a result of a 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.C.P.U.C. No. 175-T, Section 5. Payment of the Termination Charge does not release the customer from other previous amounts owed to Pacific Bell.

(N)

Continued

Advice Letter No. 22360

Linda S. Vandeloop

Executive Director

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd)

- H. RATE REGULATIONS (Cont'd)
 9. Term Payment Plans (Cont'd)

In addition to any special construction liabilities, customer termination liability for cancellation of Multi-service Optical Network (MON) Service to shall be equal to:

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

10. Monthly Extension Rate

If the customer elects not to renew the TPP, or does not notify Pacific Bell of the customer's intent to renew the TPP, the customer's service will automatically be billed under the tariffed monthly extension rates in effect at the time the TPP expires.

(N)

(N)

Continued

Advice Letter No. 22360D

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MULTI-SERVICE OPTICAL NETWORK (Cont'd)			
ON Transport System	IISOC	Current Monthly Rate	
Channel Termination/Local Distribution Channel, ¹ - per termination	<u></u>		
- 3 Year Term	1RSFW	\$5,800.00	
- 5 Year Term	1RSFW	4,600.00	
- Monthly Extension	1RSFW	7,700.00	
Customer Prem Node, ² - first shelf included			
- 3 Year Term	F2ND1	4,500.00	
- 5 Year Term	F2ND1	3,800.00	
- Monthly Extension	F2ND1	5,700.00	
Customer Prem Node - per subsequent shelf			
- 3 Year Term	F2NDS	3,300.00	
- 5 Year Term	F2NDS	2,800.00	
- Monthly Extension	F2NDS	4,200.00	
Channel Mileage ³ - per interoffice mile			
- Fixed			(T
- 3 Year Term			
0	NA	NA	
Over 0	1L5XX/1L5X3	\$750.00	
E Voor Torm			
	NA	NA	
Over 0	1L5XX/1L5X5	\$600.00	
Marshallan Tarkara adam			
- Monthly Extension 0	NA	NA	
0	1L5XX	\$1,050.00	
	Channel, ¹ - per termination - 3 Year Term - 5 Year Term - Monthly Extension Customer Prem Node, ² - first shelf included - 3 Year Term - 5 Year Term - Monthly Extension Customer Prem Node - per subsequent shelf - 3 Year Term - 5 Year Term - Monthly Extension Channel Mileage ³ - per interoffice mile - Fixed - 3 Year Term 0 0 Over 0 - 5 Year Term 0 0 Over 0 - Monthly Extension	Channel, ¹ - per termination - 3 Year Term IRSFW - Monthly Extension IRSFW Customer Prem Node, ² - first shelf included - 3 Year Term F2ND1 - 5 Year Term F2ND1 - Monthly Extension F2ND1 Customer Prem Node - per subsequent shelf - 3 Year Term F2NDS - Monthly Extension F2NDS - Monthly Extension F2NDS Channel Mileage ³ - per interoffice mile - Fixed - 3 Year Term 0 NA 0 Ver 0 IL5XX/1L5X3 - 5 Year Term 0 NA 0 Ver 0 IL5XX/1L5X5 - Monthly Extension	USOC Rate Channel. ¹ - - per termination IRSFW \$5,800.00 - 3 Year Term IRSFW \$4,600.00 - 5 Year Term IRSFW \$4,600.00 - Monthly Extension IRSFW \$4,600.00 Customer Prem Node, ² IRSFW \$7,700.00 Customer Prem Node, ² First shelf included \$2,800.00 - 3 Year Term F2ND1 \$4,500.00 - 5 Year Term F2ND1 \$,700.00 Customer Prem Node - \$2,800.00 - per subsequent shelf - \$2,800.00 - 3 Year Term F2NDS \$,800.00 - Monthly Extension F2NDS \$,800.00 - Monthly Extension F2NDS \$,200.00 Channel Mileage ³ - \$2,800.00 - Fixed - 3 Year Term \$0 - 5 Year Term 0 NA NA - 5 Year Term 0 \$2,800.00 \$750.00 - 5 Year Term 0 \$600.00 \$600.00 - 5 Year Term 0 \$600.00 \$600.00

Advice Letter No. 23302

Date Filed: Oct. 15, 2002 Effective: Nov. 24, 2002 Resolution No.

CATEGORY III SER	VICES		
D12. SPECIAL ACCESS	SERVICE		
12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd)			
I. RATES AND CHARGES			
1. MON Transport System	USOC	Current Monthly Rate	
d. Channel Mileage ³ (Cont'd) - per interoffice mile (Cont'd)			
- Variable			(T)(L) I I
- 3 Year Term Plan 0 Over 0	NA 1L5XX/1L5X3	NA \$500.00	
- 5 Year Term Plan 0 Over 0	NA 1L5XX/1L5X5	NA \$400.00	
- Monthly Extension 0 Over 0	NA 1L5XX	NA \$600.00	(T)(L)

NOTE 3: Two mileage routes required for MON standard arrangement (L) Formerly on Sheet 23 in different format.

Continued

Advice Letter No. 23302

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Linda S. Vandeloop

Executive Director

Date Filed: Oct. 15, 2002 Effective: Nov. 24, 2002 Resolution No.

CATEGORY III SERVIC D12. SPECIAL ACCESS SE			(N)
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 1. MON Transport System (Cont'd)</pre>		Current	
e. Central Office	USOC	Monthly Rate	
Optical Amplifier - initial, - per location			
- 3 Year Term	67QXX	\$6,750.00	
- 5 Year Term - Monthly Extension	67QXX 67QXX	5,400.00 8,640.00	
f. Central Office Optical Amplifier - subsequent - per location			
- 3 Year Term	67QSX	4,500.00	
- 5 Year Term - Monthly Extension	67QSX 67QSX	3,500.00 5,700.00	
g. Central Office Regenerator - per regenerator			
- 3 Year Term	V8RXX	5,250.00	
- 5 Year Term - Monthly Extension	V8RXX V8RXX	4,200.00 6,720.00	
2. MON Channels			
a. Ports - per port			
$\texttt{ESCON}^{\texttt{TM}}$ - unprotected			
- 3 Year Term	POYHW	50.00	
- 5 Year Term - Monthly Extension	POYHW POYHW	50.00 50.00	
$\texttt{ESCON}^{\texttt{TM}}$ - protected			
- 3 Year Term - 5 Year Term	РОҮНР РОҮНР	50.00 50.00	
- Monthly Extension	POTHP	50.00	(N)

Advice Letter No. 22360

Linda S. Vandeloop

CATEGORY III SERVIC	ES		
D12. SPECIAL ACCESS SE	RVICE		(N)
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 2. MON Channels (Cont'd)</pre>			
		Current	
	USOC	Monthly Rate	
a. Ports (Cont'd)	0000	Race	
- per port (Cont'd)			
ETR^{TM} - unprotected			
- 3 Year Term	POYKW	\$ 540.00	
- 5 Year Term	POYKW	405.00	
- Monthly Extension	POYKW	675.00	
ETR^{TM} - protected			
- 3 Year Term	POYKP	810.00	
- 5 Year Term	POYKP	675.00	
- Monthly Extension	POYKP	1,125.00	
$\mathtt{FICON}^{\mathtt{TM}}$ - unprotected			
- 3 Year Term	POYMW	540.00	
- 5 Year Term	POYMW	405.00	
- Monthly Extension	POYMW	675.00	
$FICON^{TM}$ - protected			
- 3 Year Term	POYMP	810.00	
- 5 Year Term	POYMP	675.00	
- Monthly Extension	POYMP	1,125.00	
ISC^{TM} - unprotected			
- 3 Year Term	POYJW	900.00	
- 5 Year Term	POYJW	720.00	
- Monthly Extension	POYJW	1,250.00	
ISC^{TM} - protected			
- 3 Year Term	POYJP	1,350.00	
- 5 Year Term	POYJP	1,080.00	
- Monthly Extension	POYJP	1,890.00	(N)

Advice Letter No. 22360

Linda S. Vandeloop

Executive Director

CATEGORY III SERVIC D12. SPECIAL ACCESS SE			(Ņ
2.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd)			
2. MON Channels (Cont'd)			
		Current	
	USOC	Monthly Rate	
a. Ports (Cont'd)	0000		
- per port (Cont'd)			
Fibre Channel - unprotected			
- 3 Year Term	POYNW	\$ 540.00	
- 5 Year Term	POYNW	405.00	
- Monthly Extension	POYNW	675.00	
Fibre Channel - protected			
- 3 Year Term	POYNP	810.00	
- 5 Year Term	POYNP	675.00	
- Monthly Extension	POYNP	1,125.00	
FDDI - unprotected			
- 3 Year Term	POYDW	50.00	
- 5 Year Term	POYDW	50.00	
- Monthly Extension	POYDW	50.00	
FDDI - protected			
- 3 Year Term	POYDP	50.00	
- 5 Year Term	POYDP	50.00	
- Monthly Extension	POYDP	50.00	
Fast Ethernet - unprotected			
- 3 Year Term	POYCW	50.00	
- 5 Year Term	POYCW	50.00	
- Monthly Extension	POYCW	50.00	
Fast Ethernet - protected			
- 3 Year Term	POYCP	50.00	
- 5 Year Term	POYCP	50.00	
- Monthly Extension	POYCP	50.00	(N

Advice Letter No. 22360

Linda S. Vandeloop

Executive Director

D12. SPECIAL ACCESS S	<u>CES</u> ERVICE		(N
<pre>2.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 2. MON Channels (Cont'd)</pre>			
		Current Monthly	
	USOC	Rate	
a. Ports (Cont'd) - per port (Cont'd)			
Gigabit Ethernet - unprotected			
- 3 Year Term	POYLW	\$ 540.00	
- 5 Year Term	POYLW	405.00	
- Monthly Extension	POYLW	675.00	
Gigabit Ethernet - protected			
- 3 Year Term	POYLP	810.00	
- 5 Year Term	POYLP	675.00	
- Monthly Extension	POYLP	1,125.00	
D1 Video - unprotected			
- 3 Year Term	POYVW	50.00	
- 5 Year Term	POYVW	50.00	
- Monthly Extension	POYVW	50.00	
D1 Video - protected			
- 3 Year Term	POYVP	50.00	
- 5 Year Term	POYVP	50.00	
- Monthly Extension	POYVP	50.00	
SONET OC-3/OC-3c unprotected			
- 3 Year Term	POYEW	50.00	
- 5 Year Term	POYEW	50.00	
- Monthly Extension	POYEW	50.00	
SONET OC-3/OC-3c protected			
- 3 Year Term	POYEP	50.00	
- 5 Year Term	POYEP	50.00	
- Monthly Extension	POYEP	50.00	(N

Advice Letter No. 22360

Linda S. Vandeloop

Executive Director

<u>CATEGORY III SERVIC</u> D12. SPECIAL ACCESS SE			(រុ
2.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd)			, , , , , , , , , , , , , , , , , , ,
2. MON Channels (Cont'd)			
		Current	
		Monthly	
	USOC	Rate	
a. Ports (Cont'd)			
- per port (Cont'd)			
SONET OC-12/OC-12c unprotected			
- 3 Year Term	POYFW	\$ 500.00	
- 5 Year Term	POYFW	400.00	
- Monthly Extension	POYFW	700.00	
SONET OC-12/OC-12c protected			
- 3 Year Term	POYFP	800.00	
- 5 Year Term	POIFP POYFP	640.00	
- Monthly Extension	POYFP	1,120.00	
		_,	
SONET OC-48 unprotected			
- 3 Year Term	POYGW	800.00	
- 5 Year Term	POYGW	640.00	
- Monthly Extension	POYGW	1,120.00	
SONET OC-48 protected			
- 3 Year Term	POYGP	1,200.00	
- 5 Year Term	POYGP	960.00	
- Monthly Extension	POYGP	1,680.00	
SONET Flexible Speed - unprotected			
- 3 Year Term	POYBW	1,000.00	
- 5 Year Term	POYBW	800.00	
- Monthly Extension	POYBW	1,280.00	
SONET Flexible Speed - protected			
- 3 Year Term	DOVDD	1 440 00	
- 3 Year Term - 5 Year Term	POYBP POYBP	1,440.00 1,150.00	
- 5 fear ferm - Monthly Extension	POYBP	2,000.00	(N
	10101	2,000.00	(1)

Advice Letter No. 22360

Linda S. Vandeloop

Executive Director

D12. SPECIAL ACCESS	SERVICE		
.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd)			
. RATES AND CHARGES (Cont'd)			
2. MON Channels (Cont'd)		~ .	
		Current	
	11200	Monthly	
a. Ports (Cont'd)	USOC	<u>Rate</u>	
- per port (Cont'd)			
- per port (cont d)			
Subrate System,			
- unprotected channel			
- 3 Year Term	POYSW	\$ 800.00	
- 5 Year Term	POYSW	600.00	
- Monthly Extension	POYSW	1,100.00	
Subrate System,			
- protected channel			
- 3 Year Term	POYSP	1,300.00	
- 5 Year Term	POYSP	1,000.00	
- Monthly Extension	POYSP	1,900.00	
b. Optional Features			
(1) Channel Termination/Local Distribution			
Channel			
Route Diversity ¹			
<u>-</u>			
- per quarter mile	CPARD	150.00	
(2) Interoffice Facility			
Route Diversity			
- Channel mileage, per mile			
- Fixed			
- 3 Year Term			
0	NA	NA ATEO OO	(
Over 0	1L5XX/1L5X3	\$750.00	
F Voor Torm			
- 5 Year Term O	NT 7	λτλ	
0 Over 0	NA 1L5XX/1L5X5	NA \$600.00	
OVEL O	TT3VY (TT3V2	2000.0U	
- Monthly Extension			
	NA	NA	
Over 0	1L5XX	\$1,050.00	(
		T = , 330.00	(
OTE 1: Applied in addition to Channel Termin aterial omitted now on Sheet 29.1.	nation/Local Distr	ibution	
accelar omitteed now on Direct 27.1.		Continue	ed
		CONCINU	

Advice Letter No. 23302

Issued by

Decision No.

Date Filed: Oct. 15, 2002 Effective: Nov. 24, 2002 Resolution No.

CATEGORY III SER			
D12. SPECIAL ACCESS	SERVICE		
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 2. MON Channels (Cont'd)</pre>		Current	
	USOC	Monthly <u>Rate</u>	
b. Optional Features (Cont'd)			
<pre>(2) Interoffice Facility (Cont'd) <u>Route Diversity</u> (Cont'd) - Channel mileage, per mile (Cont'd)</pre>			
- Variable			(T)(L)
- 3 Year Term			
0 Over 0	NA 1L5XX/1L5X3	NA \$500.00	
- 5 Year Term	NA	NA	
Over 0	1L5XX/1L5X5	\$400.00	
- Monthly Extension	NA	NA	
Over 0	1L5XX	\$600.00	(T)(L)

(L) Formerly on Sheet 29 in different format.

Continued

Advice Letter No. 23302

Date Filed: Oct. 15, 2002 Effective: Nov. 24, 2002 Resolution No.

CATEGORY III SERV	ICES		
D12. SPECIAL ACCESS	SERVICE		(N)
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 2. MON Channels (Cont'd)</pre>		Current	
b. Optical Features (Cont'd)	USOC	Monthly <u>Rate</u>	
(3) <u>Total Route Diversity</u> Channel Termination/Local Distribution Channel Route Diversity,			
- per quarter mile (two required)	CPARD	\$ 150.00	
Interoffice Facility Route Diversity - Channel mileage, per mile ¹	1L5XX/1L5X+		
3. Nonrecurring Charges	USOC	Current Charge	
Administrative Charge - per customer order	ORCMX	\$ 125.00	
Design and Central Office Connection Charge - per customer location	NRMCK/NRBCL	600.00	
Customer Connection Charge - service establishment, per customer premises node,	NRBBL	2,250.00	
Customer Connection Charge - subsequent visit, per customer premises node	NHCNL	1,000.00	

NOTE 1: Apply monthly rates as shown in 12.1, I.2.b.(2) preceding.

Continued

(N)

Advice Letter No. 22360B

Decision No.

Issued by

Linda S. Vandeloop Executive Director

	D12. SPECIA	L ACCESS SERVICE		
2.1	MULTI-SERVICE OPTICAL NETWORK (C	Cont'd)		
I.				
4.	MON Transport System			
			Maximum	
		USOC	Monthly Rate	
		0500	Rate	
a.	Channel Termination/Local Distri Channel ¹	bution		
	- per termination			
	- 3 Year Term	1RSFW	\$ 7,731.40	
	- 5 Year Term	1RSFW 1RSFW	6,131.80	
	- Monthly Extension	1RSFW	10,264.10	
b.	Customer Prem Node ² - first shelf included			
	- 3 Year Term	F2ND1	5,998.50	
	- 5 Year Term	F2ND1	5,065.40	
	- Monthly Extension	F2ND1	7,598.10	
c.	Customer Prem Node - per subsequent shelf			
	- 3 Year Term	F2NDS	4,309.90	
	- 5 Year Term	F2NDS	3,732.40	
	- Monthly Extension	F2NDS	5,598.60	
d.	Channel Mileage ³ - per interoffice mile			
	- Fixed			
	- 3 Year Term			(T)(I
	0	NA	NA	
	Over 0	1L5XX/1L5X3	\$999.75	
	- 5 Year Term			
		NA	NA	
	Over 0	1L5XX/1L5X5		
	- Monthly Extension	ΝΤ 7	νι ν	
	0			 (T)(1
NOT NOT	0 Over 0 E 1: Minimum 4 LDCs required per 1 E 2: Minimum 2 Nodes required E 3: Two mileage routes required erial omitted now on Sheet 31.1.			 (Т
			Continu	led

Advice Letter No. 23302

Decision No.

Issued by

Linda S. Vandeloop Executive Director Date Filed: Oct. 15, 2002 Effective: Nov. 24, 2002 Resolution No.

CATEGORY III SER	VICES		
D12. SPECIAL ACCESS	SERVICE		
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 4. MON Transport System (Cont'd)</pre>		Maximum Monthly	
	USOC	Rate	
d. Channel Mileage ³ (Cont'd) - per interoffice mile (Cont'd)			
- Variable			(T)(L)
- 3 Year Term 0 Over 0	NA 1L5XX/1L5X3	NA \$666.50	
- 5 Year Term 0 Over 0	NA 1L5XX/1L5X5	NA \$533.20	
- Monthly Extension 0 Over 0	NA 1L5XX	NA \$779.80	(T)(L)

NOTE 3: Two mileage routes required for MON standard arrangement (L) Formerly on Sheet 31 in different format.

Continued

Advice Letter No. 23302

Decision No.

Issued by

Linda S. Vandeloop

Executive Director

Date Filed: Oct. 15, 2002 Effective: Nov. 24, 2002 Resolution No.

CATEGORY III SERVIC			(N7)
D12. SPECIAL ACCESS SE 12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 4. MON Transport System (Cont'd)	KATCE		(N)
4. Mon Hansport System (cont d)	USOC	Maximum Monthly <u>Rate</u>	
e. Central Office Optical Amplifier - initial, - per location			
- 3 Year Term - 5 Year Term - Monthly Extension	67QXX 67QXX 67QXX	\$ 8,997.75 7,198.20 11,517.12	
f. Central Office Optical Amplifier - subsequent - per location			
- 3 Year Term - 5 Year Term - Monthly Extension	67QSX 67QSX 67QSX	5,998.50 4,665.50 7,598.10	
g. Central Office Regenerator - per regenerator			
- 3 Year Term - 5 Year Term - Monthly Extension	V8RXX V8RXX V8RXX	6,998.25 5,598.60 8,957.76	
5. MON Channels			
a. Ports - per port			
$\texttt{ESCON}^{\texttt{IM}}$ - unprotected			
- 3 Year Term - 5 Year Term - Monthly Extension	РОҮНЖ РОҮНЖ РОҮНЖ	66.65 66.65 66.65	
$\texttt{ESCON}^{\texttt{TM}}$ - protected			
- 3 Year Term - 5 Year Term - Monthly Extension	РОҮНР РОҮНР РОҮНР	66.65 66.65 66.65	(N)

Advice Letter No. 22360

Linda S. Vandeloop

Executive Director

Date Filed: Nov. 5, 2001 Effective: May 23, 2002 Resolution No.

CATEGORY III SERVICE			()
D12. SPECIAL ACCESS SEE	RVICE		(N)
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 5. MON Channels (Cont'd)</pre>			
		Maximum Monthly	
a. Ports (Cont'd)	USOC	Rate	
- per port (Cont'd)			
ETR^{TM} - unprotected			
- 3 Year Term	POYKW	\$ 719.82	
- 5 Year Term	POYKW	539.87	
- Monthly Extension	POYKW	899.78	
ETR [™] - protected			
- 3 Year Term	POYKP	1,079.73	
- 5 Year Term	POYKP	899.78	
- Monthly Extension	POYKP	1,499.63	
$\mathtt{FICON}^{\mathtt{TM}}$ - unprotected			
- 3 Year Term	POYMW	719.82	
- 5 Year Term	POYMW	539.87	
- Monthly Extension	POYMW	899.78	
$FICON^{TM}$ - protected			
- 3 Year Term	POYMP	1,079.73	
- 5 Year Term	POYMP	899.78	
- Monthly Extension	POYMP	1,499.63	
ISC^{TM} - unprotected			
- 3 Year Term	POYJW	1,199.70	
- 5 Year Term	POYJW	959.76	
- Monthly Extension	POYJW	1,666.25	
ISC^{TM} - protected			
- 3 Year Term	POYJP	1,799.55	
- 5 Year Term	POYJP	1,439.64	
- Monthly Extension	POYJP	2,519.37	(N)

Advice Letter No. 22360

Linda S. Vandeloop

Executive Director

Date Filed: Nov. 5, 2001 Effective: May 23, 2002 Resolution No.

CATEGORY III SERVICE	ES		
D12. SPECIAL ACCESS SEE	RVICE		(N)
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 5. MON Channels (Cont'd)</pre>			
5. Now chamiers (conc a)		Maximum	
		Monthly	
a. Ports (Cont'd)	USOC	Rate	
- per port (Cont'd)			
Fibre Channel - unprotected			
- 3 Year Term	POYNW	\$ 719.82	
- 5 Year Term	POYNW	539.87	
- Monthly Extension	POYNW	899.78	
Fibre Channel - protected			
- 3 Year Term	POYNP	1,079.73	
- 5 Year Term	POYNP	899.78	
- Monthly Extension	POYNP	1,499.63	
FDDI - unprotected			
- 3 Year Term	POYDW	66.65	
- 5 Year Term	POYDW	66.65	
- Monthly Extension	POYDW	66.65	
FDDI - protected			
- 3 Year Term	POYDP	66.65	
- 5 Year Term	POYDP	66.65	
- Monthly Extension	POYDP	66.65	
Fast Ethernet - unprotected			
- 3 Year Term	POYCW	66.65	
- 5 Year Term	POYCW	66.65	
- Monthly Extension	POYCW	66.65	
Fast Ethernet - protected			
- 3 Year Term	DOVOD		
- 3 Year Term - 5 Year Term	POYCP POYCP	66.65 66.65	
- Monthly Extension	POICP	66.65	(N)
-			. ,

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Linda S. Vandeloop

CATEGORY III SERVICH	IS		
D12. SPECIAL ACCESS SEE	RVICE		(N)
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 5. MON Channels (Cont'd)</pre>			
5. Now chamiers (conc a)		Maximum	
		Monthly	
	USOC	Rate	
a. Ports (Cont'd)			
- per port (Cont'd)			
Gigabit Ethernet - unprotected			
- 3 Year Term	POYLW	\$ 719.82	
- 5 Year Term	POYLW	539.87	
- Monthly Extension	POYLW	899.78	
Gigabit Ethernet - protected			
		1 000 00	
- 3 Year Term - 5 Year Term	POYLP POYLP	1,079.73 899.78	
- Monthly Extension	POYLP	1,499.63	
Monthly Excension	FOILF	1,400.00	
D1 Video - unprotected			
- 3 Year Term	POYVW	66.65	
- 5 Year Term	POYVW	66.65	
- Monthly Extension	POYVW	66.65	
D1 Video - protected			
- 3 Year Term	POYVP	66.65	
- 5 Year Term	POYVP	66.65	
- Monthly Extension	POYVP	66.65	
SONET OC-3/OC-3c unprotected			
- 3 Year Term	POYEW	66.65	
- 5 Year Term	POYEW	66.65	
- Monthly Extension	POYEW	66.65	
SONET OC-3/OC-3c protected			
- 3 Year Term	POYEP	66.65	
- 5 Year Term	POYEP	66.65	
- Monthly Extension	POYEP	66.65	(N)
-			

Advice Letter No. 22360

Linda S. Vandeloop

Executive Director

Date Filed: Nov. 5, 2001 Effective: May 23, 2002 Resolution No.

CATEGORY III SERVIC	ES		
D12. SPECIAL ACCESS SE	RVICE		(N)
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 5. MON Channels (Cont'd)</pre>			
	USOC	Maximum Monthly Rate	
a. Ports (Cont'd) - per port (Cont'd)			
SONET OC-12/OC-12c unprotected			
- 3 Year Term - 5 Year Term - Monthly Extension	POYFW POYFW POYFW	\$ 666.50 533.20 933.10	
SONET OC-12/OC-12c protected			
- 3 Year Term - 5 Year Term - Monthly Extension	POYFP POYFP POYFP	1,066.40 853.12 1,492.96	
SONET OC-48 unprotected			
- 3 Year Term - 5 Year Term - Monthly Extension	POYGW POYGW POYGW	1,066.40 853.12 1,492.96	
SONET OC-48 protected			
- 3 Year Term - 5 Year Term - Monthly Extension	POYGP POYGP POYGP	1,599.60 1,279.68 2,239.44	
SONET Flexible Speed - unprotected			
- 3 Year Term - 5 Year Term - Monthly Extension	POYBW POYBW POYBW	1,333.00 1,066.40 1,706.24	
SONET Flexible Speed - protected			
- 3 Year Term - 5 Year Term - Monthly Extension	POYBP POYBP POYBP`	1,919.52 2,012.83 2,666.00	(14)

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CATEGORY III SERVIC	ES		
D12. SPECIAL ACCESS SE			
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 5. MON Channels (Cont'd)</pre>		Maximum	
	TIGOG	Monthly	
a. Ports (Cont'd) - per port (Cont'd)	USOC	<u>Rate</u>	
Subrate System, - unprotected channel			
- 3 Year Term	POYBW	\$1,066.40	
- 5 Year Term - Monthly Extension	POYBW POYBW	799.80 1,466.30	
Subrate System, - protected channel		_,	
- 3 Year Term	POYBP	1,732.90	
- 5 Year Term - Monthly Extension	POYBP POYBP	1,333.00 2,532.70	
	FOIBE	2,332.70	
b. Optional Features			
(1) <u>Channel Termination/Local Distribution</u> <u>Channel</u> <u>Route Diversity</u> ¹			
- per quarter mile	CPARD	199.95	
(2) <u>Interoffice Facility Route Diversity</u> - Channel mileage, per mile			
- Fixed			
- 3 Year Term			(T)
0 Over 0	NA 1L5XX/1L5X3	NA \$999.75	
- 5 Year Term			
0 Over 0	NA 1L5XX/1L5X5	NA \$799.80	
- Monthly Extension			
0 Over 0	NA	NA ¢1 200 CE	
over u	1L5XX	\$1,399.65	(T)
NOTE 1: Applied in addition to Channel Terminati	on/Local Distri	bution Channel	
Material omitted now on Sheet 37.1.		Continued	

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CATEGORY III SE			
D12. SPECIAL ACCESS	S SERVICE		
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 5. MON Channels (Cont'd)</pre>		Maximum	
	USOC	Monthly Rate	
b. Optional Features (Cont'd)			
<pre>(2) Interoffice Facility Route Diversity - Channel mileage, per mile (Cont'd)</pre>	(Cont'd)		
- Variable			(T)(L)
- 3 Year Term			
0 Over 0	NA 1L5XX/1L5X3	NA \$666.50	
- 5 Year Term			
0 Over 0	NA 1L5XX/1L5X5	NA \$533.20	
- Monthly Extension			
0 Over 0	NA 1L5XX	NA \$799.80	 (T)(L)

(L) Formerly on Sheet 37 in different format.

Continued

Advice Letter No. 23302

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CATEGORY III SERVIC	CES		
D12. SPECIAL ACCESS SE	CRVICE		(N)
<pre>12.1 MULTI-SERVICE OPTICAL NETWORK (Cont'd) I. RATES AND CHARGES (Cont'd) 5. MON Channels (Cont'd)</pre>		Maximum	
b. Optional Features (Cont'd)	USOC	Maximum Monthly <u>Rate</u>	
<pre>(3) Total Route Diversity - Apply Channel Termination/Local Distribution Channel Route Diversity (two required) - per quarter mile</pre>	CPARD	199.95	
 Apply Interoffice Facility Route Diversity Channel mileage, per mile¹ 	1L5XX/1L5X+		
(c) <u>Nonrecurring Charges</u>	USOC	Maximum Charge	
Administrative Charge - per customer order	ORCMX	166.63	
Design and Central Office Connection Charge - per customer location	NRMCK/NRBCL	799.80	
Customer Connection Charge - service establishment, per customer premises node,	NRBBL	2,999.25	
Customer Connection Charge - subsequent visit, per customer premises node	NHCNL	1,333.00	

NOTE 1: Apply monthly rates as shown in 12.1, I.2.b.(2) preceding.

Continued

(N)

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(N)

CATEGORY III SERVICES 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 Pacific Bell.

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:

 $\mathrm{ESCON}^{\mathrm{TM}}$ (200 Mbps) - Enterprise Systems Connection. An IBM duplex optical connection used for computer-to-computer data exchange. $\mathrm{ESCON}^{\mathrm{TM}}$ is limited to a maximum distance of 43 km and actual data throughput is distance sensitive.

 ETR^{TM} (8 Mbps - Manchester Encoded) - External Timing References. This protocol is used for IBM GDPSTM architecture for multiple-location host processors. ETR^{TM} is limited to a maximum distance of 40 km.

 $\texttt{FICON}^{\texttt{TM}}$ (1.0625 Gbps and 2.125 Gbps) – A higher-speed evolution of $\texttt{ESCON}^{\texttt{TM}}$, enabling 1 Gbps connectivity among mainframes, storage devices and peripherals. $\texttt{FICON}^{\texttt{TM}}$ is limited to a maximum distance of 100km and actual data throughput is distance sensitive.

 ${\rm ISC}^{\rm TM}$ (1.0625 Gbps) – Inter-System Coupling. This protocol is used with IBM GDPS^{\rm TM} architecture for multiple-location host processors. ${\rm ISC}^{\rm TM}$ is limited to a maximum distance of 40 km.

NOTE 1: ESCON[™], ETR[™], FICON[™], ISC[™] and GDPS[™] are registered trademarks of the International Business Machines (IBM) Corporation, Armonk, NY 10504

Continued

(N)

Decision No.

Cynthia Wales

Date Filed: Feb. 24, 2003 Effective: Apr. 5, 2003

D1	<u>CATEGORY III SERVICES</u> 2. SPECIAL ACCESS SERVICE		
2.2 MULTI-SERVICE OPTICAL A. SERVICE DESCRIPTION (NETWORK RING (Cont'd)	aces: (Cont'd)	(N)
Other Protocols:			
protocol used to int	25 Gbps and 2.125 Gbps) - ar terconnect Storage Area Netw to a maximum distance of 100 nce sensitive.	vorks (SANs). Fibre	
Fast Ethernet - a ve rates of 100 Mbps.	ersion of Ethernet that allo	ows data transmission	
Gigabit Ethernet – a transmission rates o	a version of Ethernet that a of 1 Gbps.	allows data	
10 Gigabit Ethernet data transmission ra interface.	(WAN-PHY) – a version of Et ates of 9.953 – 10 Gbps with	thernet that allows n a WAN-PHY only	
D1 Video - uncompre:	ssed digital video signal og	perating at 270 Mbps.	
	provides a fiber-based 155. data transmission capabilit		
	- provides a fiber-based 62 data transmission capabilit		
	- provides a fiber-based 24 data transmission capabilit		
	c ¹ – provides a fiber-based full duplex data transmissi		
1.25 Gbps with 4 por D1 Video and (OC3/00	rovides a multiplexing systers. Applicable to ESCON TM , C-3C) port interfaces. Sub- ing wire center only for OC3	Fast Ethernet, -rate multiplexing is	
and the Serving Wi	aces are available at the Cu re Center (SWC) Node. All v at the Customer Premise No	other Port interfaces	(14)
vice Letter No. 23568A	Issued by	Date Filed: Feb. 24, 2003	

Cynthia Wales

Effective: Apr. 5, 2003 Resolution No.

CATEGORY III SERVICES 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) ESCON[™] Sub Rate System (8:1) - provides a multiplexing system (T) which allows customers to put up to eight (8) $ESCON^{TM}$ Channels (no other protocol) on one Port card. (ESCON[™] protocol is defined in 12.2 (A) preceding.) Gigabit Ethernet/Fibre Channel/FICON[™] Sub-Rate System (2:1) - provides (以) 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 12.2, A. preceding. Fibre Channel and FICONTM at 2.125 Gbps rates cannot be placed on this subrate system. OC-3/OC-12 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 subrate card. 10 Gigabit Ethernet (LAN-PHY) - a version of Ethernet that allows data transmission rates of 10.3125 Gbps with LAN-PHY only interface. OC-12 Riding Circuit - capable of being multiplexed on the OC3/12 Subrate system. 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. FICONTM 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. 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 $FICON^{TM}$ services can also be ordered directly on MON Ring. (N)

Continued

Advice Letter No. 24941

Cynthia Wales

Date Filed: May 7, 2004 Effective: June 16, 2004

CATEGORY III SERVICES 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 SBC California 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 12.2,F. following.
- 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 subrate systems over which these services will be assigned.

OC-12/-12c, Gigabit Ethernet, Fibre Channel and FICONTM at 1.0625 Gbps rates can be ordered directly on MON Ring, or as a riding service on a subrate system. Fibre Channel and FICONTM 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 FICONTM 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

(N)

(N)

Advice Letter No. 24941

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(N)

CATEGORY III SERVICES 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 SBC California tariffs. (Cont'd)
 - 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. 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. 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.
 - 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 customers designated premises.

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Advice Letter No. 23568A

Cynthia Wales

Executive Director

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

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

в.	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 SBC California tariffs. (Cont'd)

(D)

(D)

(T)

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

- 16. MON Ring service is not available in a Meet-Point Billing configuration (T) as described in Schedule Cal.P.U.C. No. 175-T, Sections 2.4.8 and 5.2.10.
- 17. Conversion from Multi-service Optical Network Point to Point service to (T) Multi-service Optical Network Ring service are not available.
- 18. Conversions from any other lower speed service to Multi-service Optical (T) Network Ring Service are not available.
- 19. Neither electrical interfaces nor optical add/drop multiplexing are (T) available with this service.
- 20. Rules and Regulations as set forth in Schedule Cal.P.U.C. No. 175-T (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 (T) the MON Ring Channels. When ordering ESCON[™], Fast Ethernet, D1 Video and OC-3/OC-3C ports, the customer must first order a MON Ring Channel Sub-Rate System over which these services will be assigned.
- 22. Customers may not in-service convert from existing Fibre Channel, (N) 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. (N)

Continued

Advice Letter No. 24941A

Cynthia Wales

Executive Director

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CATEGORY III SERVICES 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, with a maximum of 8 sites and/or 40 shelves. A shelf consists of up to four protected or up to eight unprotected wavelengths (bands). Two shelves may be placed in one physical shelf chassis.

The minimum configuration would be two customer nodes located at either at 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.

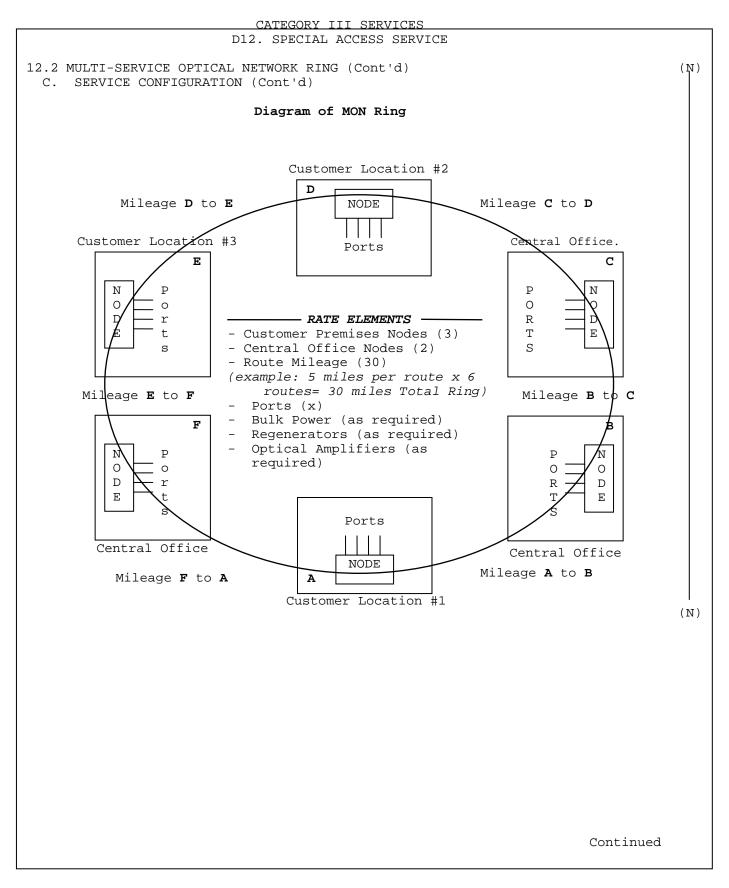
A combination of these configurations may be used in a network design depending on the customer's traffic pattern.

Continued

Cynthia Wales

Executive Director

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(N)

CATEGORY III SERVICES 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 99.995% of the time and protected channels will switch within 50 milliseconds (not to exceed 2 seconds). Unprotected channels will be lost in the event of a fiber path failure to which the circuit is assigned. Equipment interfaces towards the customer are not protected.

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 Altertate 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.

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.

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.

(N)

Continued

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CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE		
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)		(N)
D. TECHNICAL SPECIFICATIONS		
The customer interfaces to the SBC MON Ring Serv	ice are as specified in:	
Subject	Technical Reference	
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	AM-TR-NIS-000096	
$(ESCON^{TM})$	AM-TR-NIS-000107	
IBM Documentation ($\texttt{ESCON}^{ extsf{TM}}$)	IBM SA22-7202-XX	
Fibre Channel	IBM SA23-0394-XX ANSI X3.T9.3	
(also includes $FICON^{TM}$ and ISC^{TM})	ANSI X3.19.3	
Fast Ethernet	ANSI/IEEE 802.3	
GigaBit Ethernet	IEEE $802.3x$ and z	
digable lenernee	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		(N)

Cynthia Wales

SERVICE OPTICAL NETWORK RING (Cont'd) CE COMPONENTS <u>ee Components</u> <u>ides termination of the service at the customer's premises and</u> <u>ents the various selected ports to the customer.</u> <u>ral Office Nodes</u> ides for the termination for a service at a Utility Serving Wire er. <u>age</u> ides for the transmission facilities between the Serving Wire ers of each Node involved on the ring. <u>cal Amplifiers</u> ides for an optical signal boost if the distance between Nodes eds the transmission loss parameters (link loss specific). neering considerations may dictate the need for more than one cal amplifier on a circuit route depending upon the circuit iguration. These additions may be service affecting. Optical	(N
<pre>ee Components omer Premises Nodes ides termination of the service at the customer's premises and ents the various selected ports to the customer. ral Office Nodes ides for the termination for a service at a Utility Serving Wire er. age ides for the transmission facilities between the Serving Wire ers of each Node involved on the ring. cal Amplifiers ides for an optical signal boost if the distance between Nodes eds the transmission loss parameters (link loss specific). neering considerations may dictate the need for more than one cal amplifier on a circuit route depending upon the circuit</pre>	
<u>omer Premises Nodes</u> ides termination of the service at the customer's premises and ents the various selected ports to the customer. <u>ral Office Nodes</u> ides for the termination for a service at a Utility Serving Wire er. <u>age</u> ides for the transmission facilities between the Serving Wire ers of each Node involved on the ring. <u>cal Amplifiers</u> ides for an optical signal boost if the distance between Nodes eds the transmission loss parameters (link loss specific). neering considerations may dictate the need for more than one cal amplifier on a circuit route depending upon the circuit	
<pre>ides termination of the service at the customer's premises and ents the various selected ports to the customer. <u>ral Office Nodes</u> ides for the termination for a service at a Utility Serving Wire er. <u>age</u> ides for the transmission facilities between the Serving Wire ers of each Node involved on the ring. <u>cal Amplifiers</u> ides for an optical signal boost if the distance between Nodes eds the transmission loss parameters (link loss specific). neering considerations may dictate the need for more than one cal amplifier on a circuit route depending upon the circuit</pre>	
ides for the termination for a service at a Utility Serving Wire er. <u>age</u> ides for the transmission facilities between the Serving Wire ers of each Node involved on the ring. <u>cal Amplifiers</u> ides for an optical signal boost if the distance between Nodes eds the transmission loss parameters (link loss specific). neering considerations may dictate the need for more than one cal amplifier on a circuit route depending upon the circuit	
ides for the transmission facilities between the Serving Wire ers of each Node involved on the ring. <u>cal Amplifiers</u> ides for an optical signal boost if the distance between Nodes eds the transmission loss parameters (link loss specific). neering considerations may dictate the need for more than one cal amplifier on a circuit route depending upon the circuit	
ides for an optical signal boost if the distance between Nodes eds the transmission loss parameters (link loss specific). neering considerations may dictate the need for more than one cal amplifier on a circuit route depending upon the circuit	
ifiers may be located at a Customer Premises Node, a Central ce Node or at a Utility Serving Wire Center.	
<u>nerators</u> ides for re-timing, re-shaping and regeneration of the signal l if degradation exceeds the dispersion and/or Optical Amplifier e limits.	
<u>s</u> ides the channel interface at any Node location for each otected or protected channel.	
<u>Power</u> ides for customer premises Node power which will be required if customer's power source is AC.	(N
i e s i c	des for re-timing, re-shaping and regeneration of the signal if degradation exceeds the dispersion and/or Optical Amplifier limits. des the channel interface at any Node location for each tected or protected channel. <u>Power</u> des for customer premises Node power which will be required if

Cynthia Wales

	CATEGORY III SERVICES	
	D12. SPECIAL ACCESS SERVICE	
12.2	MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)	(N)
F.	CREDIT ALLOWANCES FOR SERVICE INTERRUPTIONS	
	A credit allowance will be give 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.	(N)

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Executive Director

CATEGORY III SERVICES 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:

Recurring Charges:

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

<u>Central Office Nodes</u>¹, Applies per first shelf and subsequent shelves.

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. 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.

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 (N) Utility.

<u>Ports</u> 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 though eight.

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

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Decision No.

(N)

(N)

CATEGORY III SERVICES 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:

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

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.

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.

Continued

Cynthia Wales

Executive Director

(N)

CATEGORY III SERVICES 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:

- 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 then the existing TPP. No credit for month 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.
- 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.

(N)

Continued

Cynthia Wales

Executive Director

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) (N) G. RATE REGULATIONS (Cont'd) <u>Term Payment Plans</u> (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 SBC California.
 - 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 (50) percent of all recurring charges for the balance of the customer's term.

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.

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.

(N)

Continued

Cynthia Wales

CATEGORY III SERVICES 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.

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.

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.

(N)

(N)

Continued

Cynthia Wales

Executive Director

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERV	ICE		
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)			(N)
H. MAXIMUM RATES			
1. MON Transport System		Maximum	
		Monthly	
	USOC	Rate	
a. Customer Premises Node			
- includes first shelf			
36 month	F2ND1	\$15,996.00	
60 month	F2ND1	12,796.80	
Monthly Extension	F2ND1	22,394.40	
- per subsequent shelf			
36 month	F2NDS	11,997.00	
60 month	F2NDS	9,597.60	
Monthly Extension	F2NDS	16,795.80	
b. Central Office Node			
- includes first shelf			
36 month	F2NC1	15,996.00	
60 month	F2NC1	12,796.80	
Monthly Extension	F2NC1	22,394.40	
- per subsequent shelf			
36 month	F2NCS	11,997.00	
60 month	F2NCS	9,597.60	
Monthly Extension	F2NCS	16,795.80	(N)

Cynthia Wales

CATEGORY III SERVICE	S		
D12. SPECIAL ACCESS SER	VICE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd) 1. MON Transport System (Cont'd)</pre>			(N)
c. Mileage	USOC	Maximum Monthly <u>Rate</u>	
- per mile			
36 month 0 miles Over 0 miles	NA 1L5X3	NA \$666.50	
60 month 0 miles Over 0 miles	NA 1L5X5	NA \$533.20	
Monthly Extension 0 miles Over 0 miles	NA 1L5XS	NA \$933.10	(N)

Advice Letter No. 23568

Issued by

Cynthia Wales

Executive Director

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERVIO	CE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd) 1. MON Transport System (Cont'd)</pre>			(N)
d. Optical Amplifier - C Band	USOC	Maximum Monthly <u>Rate</u>	
- as required, per location			
36 month 60 month Monthly Extension	67QXX 67QXX 67QXX	\$ 7,198.20 4,798.80 10,130.80	
Optical Amplifier - L Band			
- as required, per location			
36 month 60 month Monthly Extension	67QSX 67QSX 67QSX	7,198.20 4,798.80 10,130.80	
e. Regenerator			
- as required, up to 2.5 Gbps, per shelf			
36 month 60 month Monthly Extension	V8RXX V8RXX V8RXX	9,997.50 6,665.00 13,996.50	
- as required, up to 10 Gbps, per circuit			
36 month 60 month Monthly Extension	V8R2C V8R2C V8R2C	19,995.00 13,330.00 27,993.00	(N)

Cynthia Wales

Executive Director

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERVI	ICE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd) 1. MON Transport System (Cont'd)</pre>			
f. Bulk Power	USOC	Maximum Monthly <u>Rate</u>	
I. Bulk Power			
- includes first shelf (shelves 1-4)			
36 month 60 month Monthly Extension	CBVDX CBVDX CBVDX	\$2,666.00 2,132.80 3,465.80	
 per subsequent shelf, per fifth subsequent shelf (shelves 5-8) 			
36 month 60 month Monthly Extension	CBVDS CBVDS CBVDS	2,132.80 1,732.90 2,799.30	
2. Ports			
- per port/per circuit terminating location			
a. ETR^{TM}			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYKW POYKW POYKW	1,299.68 999.75 1,866.20	

Cynthia Wales

Executive Director

Date Filed: Dec. 24, 2003 Effective: Feb. 3, 2004 Resolution No.

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERVI	ICE		
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)		Maximum Monthly	
	USOC	Rate	
2. Ports (Cont'd)			
 per port/per circuit terminating location (Cont'd) 			
b. $FICON^{TM}$ (1.0625 Gbps)			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYMW POYMW POYMW	\$1,299.68 999.75 1,866.20	
- protected channel	POIMW	1,000.20	
36 month 60 month	POYMP POYMP	2,599.35 1,999.50	
Monthly Extension c. FICON [™] (2.125 Gbps)	POYMP	3,732.40	(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYWW POYWW POYWW	2,266.10 1,732.90 3,199.20	
- protected channel			
36 month 60 month Monthly Extension	POYWP POYWP POYWP	4,532.20 3,465.80 6,398.40	

Cynthia Wales

Executive Director

Effective: Feb. 3, 2004 Resolution No.

Date Filed: Dec. 24, 2003

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVI	CE		
 12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd) 2. Ports (Cont'd) per port/per circuit terminating 	<u>USOC</u>	Maximum Monthly <u>Rate</u>	
 d. ISC[™] 			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYJW POYJW POYJW	\$4,332.25 1,666.25 6,131.80	

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Issued by

Cynthia Wales

Executive Director

Date Filed: Dec. 24, 2003 Effective: Feb. 3, 2004 Resolution No.

CATEGORY III SERVICE	S		
D12. SPECIAL ACCESS SER	VICE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)</pre>			
2. Ports (Cont'd)	USOC	Maximum Monthly <u>Rate</u>	
 per port/per circuit terminating location (Cont'd) 			
e. Fibre Channel (1.0625 Gbps)			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYNW POYNW POYNW	\$1,599.60 1,199.70 2,266.10	
- protected channel			
36 month 60 month Monthly Extension	POYNP POYNP POYNP	3,199.20 2,399.40 4,532.20	
f. Fibre Channel (2.125 Gbps)			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYYW POYYW POYYW	2,266.10 1,732.90 3,199.20	
- protected channel			
36 month 60 month Monthly Extension	РОҮҮР РОҮҮР РОҮҮР	4,532.20 3,465.80 6,398.40	

Cynthia Wales

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERV	ICE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)</pre>			
	USOC	Maximum Monthly <u>Rate</u>	
2. Ports (Cont'd)			
 per port/per circuit terminating location (Cont'd) 			
g. Gigabit Ethernet			(T)
- unprotected channel			
36 month	POYLW	\$ 1,599.60	
60 month	POYLW	1,199.70	
Monthly Extension	POYLW	2,266.10	
- protected channel			
36 month	POYLP	3,199.20	
60 month	POYLP	2,399.40	
Monthly Extension	POYLP	4,532.20	
h. 10 (Ten) Gigabit Ethernet (WAN PHY)			(T)
- unprotected channel			
36 month	POYTW	19,995.00	
60 month	POYTW	16,662.50	
Monthly Extension	POYTW	27,993.00	
- protected channel			
36 month	POYTP	26,660.00	
60 month	POYTP	22,261.10	
Monthly Extension	POYTP	37,324.00	

Cynthia Wales

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Executive Director

Date Filed: Dec. 24, 2003

Effective: Feb. 3, 2004

CATEGORY III SERVICE	S		
D12. SPECIAL ACCESS SERV	VICE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)</pre>	USOC	Maximum Monthly Rate	
2. Ports (Cont'd)			
 per port/per circuit terminating location (Cont'd) 			
i. SONET OC-12/OC-12c			(T)
- unprotected channel			
36 month	POYFW	\$1,732.90	
60 month	POYFW	1,333.00	
Monthly Extension	POYFW	2,532.70	
- protected channel			
36 month	POYFP	3,465.80	
60 month	POYFP	2,666.00	
Monthly Extension	POYFP	4,932.10	
j. OC-48/OC-48c			(T)
- unprotected channel			
36 month	POYGW	5,865.20	
60 month	POYGW	4,932.10	
Monthly Extension	POYGW	7,998.00	
- protected channel			
36 month	POYGP	8,797.80	
60 month	POYGP	7,411.48	
Monthly Extension	POYGP	11,997.00	

Cynthia Wales

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Executive Director

Date Filed: Dec. 24, 2003

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERV	ICE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)</pre>	USOC	Maximum Monthly Rate	
2. Ports (Cont'd)			
 per port/per circuit terminating location (Cont'd) 			
k. SONET OC-192/OC-192c			
- unprotected channel			
36 month 60 month Monthly Extension	POYOW POYOW POYOW	\$ 19,995.00 16,662.50 27,993.00	
- protected channel			
36 month 60 month Monthly Extension	РОҮОР РОҮОР РОҮОР	26,660.00 22,261.10 37,324.00	
l. 10 Gigabit Ethernet (LAN-PHY)			(N)
- unprotected channel			
36 month 60 month Monthly Extension	POYUW POYUW POYUW	20,491.88 17,082.40 28,692.83	
- protected channel			
36 month 60 month Monthly Extension	POYUP POYUP POYUP	27,326.96 22,820.96 38,257.00	
			(N)

(N)

Continued

Cynthia Wales

D12. SPECIAL ACCESS SERV			
2.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)			
		Maximum Monthly	
	USOC	Rate	
2. Ports (Cont'd)			
 per port/per circuit terminating location (Cont'd) 			
l. Sub-Rate System			(T
- unprotected channel			
36 month	POYSW	\$1,732.90	
60 month Monthly Extension	POYSW POYSW	1,333.00 2,532.70	
- protected channel	FOIDM	2,352.70	
36 month	DOVAD		
60 month	POYSP POYSP	3,465.80 2,666.00	
Monthly Extension	POYSP	4,932.10	
(1) $ESCON^{TM 1, 2}$			(N
- unprotected channel			
36 month	POYHW	133.30	
60 month Monthly Extension	POYHW POYHW	133.30 199.95	
- protected channel	101111	177.75	
36 month	POYHP	133.30	
60 month	POYHP	133.30	
Monthly Extension	POYHP	199.95	

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

(N)

Continued

Advice Letter No. 24470

Issued by

Cynthia Wales

Executive Director

Date Filed: Dec. 24, 2003

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERV	ICE		
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)			
	USOC	Maximum Monthly Rate	
2. Ports (Cont'd)	0300	Kate	
 per port/per circuit terminating location (Cont'd) 			
l. Sub-Rate System (Cont'd)			(T)
(2) Fast Ethernet ¹			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYCW POYCW POYCW	\$433.23 333.25 533.20	
- protected channel			
36 month 60 month Monthly Extension	POYCP POYCP POYCP	666.50 533.20 866.45	
(3) Dl Video ¹			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYVW POYVW POYVW	133.30 133.30 199.95	
- protected channel			
36 month 60 month Monthly Extension	POYVP POYVP POYVP	133.30 133.30 199.95	

Continued

Advice Letter No. 24470 Decision No. Issued by

Cynthia Wales

Executive Director

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERV	/ICE		
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)			
2. Ports (Cont'd)	USOC	Maximum Monthly <u>Rate</u>	
 per port/per circuit terminating location (Cont'd) 			
l. Sub-Rate System (Cont'd)			(T)
(4) SONET OC-3/OC-3c ¹			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYEW POYEW POYEW	\$133.30 133.30 199.95	
- protected channel			
36 month 60 month Monthly Extension	POYEP POYEP POYEP	133.30 133.30 199.95	

Continued

Advice Letter No. 24470

Decision No.

Issued by

Cynthia Wales

Executive Director

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERV	ICE		
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)		Maximum Monthly	
2. Ports (Cont'd)	USOC	Rate	
 per port/per circuit terminating location (Cont'd) 			
l. Sub-Rate System (Cont'd)			(T)
(5) ESCON TM Sub-Rate System 8:1 1			(N)
- unprotected channel			
36 month 60 month Monthly Extension	POY2W POY2W POY2W	\$ 1,999.50 1,499.63 2,599.35	
- protected channel			
36 month 60 month Monthly Extension	POY2P POY2P POY2P	3,999.00 2,999.25 5,198.70	(N)

(N)

Continued

Advice Letter No. 24470 Decision No. Issued by

Cynthia Wales

Executive Director

		ATEGORY III SERVICES SPECIAL ACCESS SERV			
	LTI-SERVICE OPTICAL NET AXIMUM RATES (Cont'd)	WORK RING (Cont'd)			
			USOC	Maximum Monthly Rate	
2. P	orts (Cont'd)				
-	per port/per circuit t location (Cont'd)	cerminating			
	1. Sub-Rate System (Co	ont'd)			
	(6) Gigabit Ethernet/F	Fibre Channel/FICON TM	¹ Sub-Rate	System (2:1)	(N
	unprotected channel				
	36 month		POY1W	\$1,166.38	
	60 month Monthly Extensio	an a	POY1W		
	-		POY1W	1,519.62	
	- protected channe	e1			
	36 month		POY1P	-	
	60 month Monthly Extensic	n	POY1P POY1P	-	
	(a) Gigabit Etherne	et Riding Circuit ¹			
	- unprotected	channel			
	36 month		POY4W	719.82	
	60 month Monthly, Eutonci	on	POY4W	533.20 866.45	
	Monthly Extensi	OII	POY4W	000.45	
	- protected ch	annel			
	36 month		POY4P	1,333.00	
	60 month Monthly Eutonai	on	POY4P	1,066.40	
	Monthly Extensi	_	POY4P	1,732.90	
		Riding Circuit ¹ (for	1.0625 Gbr	os only)	
	- unprotected	channel			
	36 month		POY6W	666.50	
	60 month Monthly Exten	sion	POY6W POY6W	533.20 866.45	
	- protected cha				
	36 month		РОХер	1,333.00	
	60 month		PO16P POY6P	1,066.40	
	Monthly Extens		POY6P	1,732.90	
NOTE 1:	Gigabit Ethernet and H ordered with Gigabit H	Fibre Channel Riding Sthernet/Fibre Chann	Services el/FICON [™]	only available when Sub-Rate System as	
	set forth in 12.2, B.7.				(N
				Continued	

Decision No.

Cynthia Wales Executive Director

D12. SPECIAL ACCESS SE	RVICE		
.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)		Maximum Monthly	
2. Ports (Cont'd)	USOC	Rate	
 per port/per circuit terminating location (Cont'd) 			
1. Sub-Rate System (Cont'd)			
(6) Gigabit Ethernet/FC.FICON TM Sub-Rate	System (2:1)	(Cont'd)	(N
(c) FICON TM Riding Circuit ¹ (for 1.062)	5 Gbps only)		
- unprotected channel			
36 month 60 month Monthly Extension	POY7W POY7W POY7W	\$ 533.20 426.56 639.84	
- protected channel			
36 month 60 month Monthly Extension	POY7P POY7P POY7P	1,066.40 853.12 1,279.68	
(7) OC-3/OC-12 Sub Rate System (4:1)			
- unprotected channel			
36 month 60 month Monthly Extension	POY3W POY3W POY3W	1,333.00 999.75 1,732.90	
- protected channel			
36 month 60 month Monthly Extension	POY3P POY3P POY3P	2,666.00 1,999.50 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 12.2,B.7. preceding.

Continued

(N)

Decision No.

Date Filed: May 7, 2004 Effective: June 16, 2004

Cynthia Wales Executive Director

D12. SPECIAL ACCESS SERV	S /ICE		
<pre>2.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)</pre>		Maximum	
2. Ports (Cont'd)	USOC	Monthly Rate	
 per port/per circuit terminating location (Cont'd) 			
1. Sub-Rate System (Cont'd)			
(8) OC-12 Riding Circuit ¹			(N)
- unprotected channel			
36 month 60 month Monthly Extension	POY5W POY5W POY5W	\$ 666.50 499.88 933.10	
- protected channel			
36 month 60 month Monthly Extension	POY5P POY5P POY5P	1,333.00 999.75 1,866.20	
NOTE 1: C-12 Riding Circuit only available when a Sub-Rate System as set forth in 12.2,B.7		OC-3/OC-12	(N)
ous race system as set toten in 12.2, b. /	, preceding.		(11)

Advice Letter No. 24941

Cynthia Wales

Date Filed: May 7, 2004 Effective: June 16, 2004 Resolution No.

Decision No.

Executive Director

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVIC	E		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. MAXIMUM RATES (Cont'd)</pre>			(N)
3. Non Recurring Charges	USOC	Maximum Nonreucrring <u>Charge</u>	
a. Administrative Charge			
- per service order	ORCMX	\$ 166.63	
b. Design and Central Office Connection Charge			
- per circuit	NRBCL	799.80	
c. Customer Connection Charge			
- Service Establishment ¹			
per node	NRBBL	9,997.50	
- Subsequent installation ² , (Riding Services	only)		
per subsequent shelf	NHCNL	1,333.00	 (N)

NOTE 1: Applies to establish the MON Network. NOTE 2: Applies to every riding service circuit after MON Network established.

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Advice	Letter	No.	23568
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Issued by

Cynthia Wales

Date Filed: Feb. 24, 2003 Effective: Apr. 5, 2003 Resolution No.

Executive Director

CATEGORY III SERVICE	IS		
D12. SPECIAL ACCESS SER	VICE		
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)			
I. CURRENT RATES			
1. MON Transport System			
a. Customer Premises Node	USOC	Current Monthly <u>Rate</u>	
- includes first shelf			
36 month 60 month Monthly Extension	F2ND1 F2ND1 F2ND1	\$ 7,800.00 6,240.00 10,920.00	z
- per subsequent shelf			
36 month 60 month Monthly Extension b. Central Office Node	F2NDS F2NDS F2NDS	5,850.00 4,680.00 8,190.00	
- includes first shelf			
36 month 60 month Monthly Extension	F2NC1 F2NC1 F2NC1	7,800.00 6,240.00 10,920.00	
- per subsequent shelf			
36 month 60 month Monthly Extension	F2NCS F2NCS F2NCS	5,850.00 4,680.00 8,190.00	

z Correction

Continued

Advice Letter No. 26763

Issued by

Rhonda Johnson

Executive Director

Date Filed: May 18, 2005 Effective: May 20, 2005 Resolution No.

CATEGORY III SERVICE	ES	
D12. SPECIAL ACCESS SEE	RVICE	
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd) 1. MON Transport System (Cont'd)</pre>		
c. Mileage	USOC	Current Monthly <u>Rate</u>
- per mile		
36 month 0 miles Over 0 miles	NA 1L5X3	NA \$325.00 (R)
60 month 0 miles Over 0 miles	NA 1L5X5	NA \$260.00 (R)
Monthly Extension 0 miles Over 0 miles	NA 1L5XS	NA \$455.00 (R)

Advice Letter No. 26067

Rhonda Johnson

Executive Director

Date Filed: Jan. 14, 2005 Effective: Jan. 18, 2005 Resolution No.

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERVIC	CE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd) 1. MON Transport System (Cont'd)</pre>			(N)
d. Optical Amplifier - C Band	USOC	Current Monthly <u>Rate</u>	
- as required, per location			
36 month 60 month Monthly Extension	67QXX 67QXX 67QXX	\$ 5,400.00 3,600.00 7,600.00	
Optical Amplifier - L Band			
- as required, per location			
36 month 60 month Monthly Extension	67QSX 67QSX 67QSX	5,400.00 3,600.00 7,600.00	
e. Regenerator			
- as required, up to 2.5 Gbps, per shelf			
36 month 60 month Monthly Extension	V8RXX V8RXX V8RXX	7,500.00 5,000.00 10,500.00	
- as required, up to 10 Gbps, per circuit			
36 month 60 month Monthly Extension	V8R2C V8R2C V8R2C	15,000.00 10,000.00 21,000.00	(N)

Cynthia Wales

Executive Director

Date Filed: Feb. 24, 2003 Effective: Apr. 5, 2003 Resolution No.

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERVIC	CE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd) 1. MON Transport System (Cont'd)</pre>			
	USOC	Current Monthly <u>Rate</u>	
f. Bulk Power			
- includes first shelf (shelves 1-4)			
36 month 60 month Monthly Extension	CBVDX CBVDX CBVDX	\$2,000.00 1,600.00 2,600.00	
 per subsequent shelf, per fifth subsequent shelf (shelves 5-8) 			
36 month 60 month Monthly Extension	CBVDS CBVDS CBVDS	1,600.00 1,300.00 2,100.00	
2. Ports			
- per port/per circuit terminating location			
a. ETR^{TM}			(T)
- unprotected channel			
36 month 60 month Monthly Extension	РОҮКЖ РОҮКЖ РОҮКЖ	975.00 750.00 1,400.00	

Cynthia Wales

Executive Director

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERV	ICE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd)</pre>	USOC	Current Monthly Rate	
2. Ports (Cont'd)			
 per port/per circuit terminating location (Cont'd) 			
b. $FICON^{TM}$ (1.0625 Gbps)			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYMW POYMW POYMW	\$ 975.00 750.00 1,400.00	
- protected channel			
36 month 60 month Monthly Extension	РОҮМР РОҮМР РОҮМР	1,950.00 1,500.00 2,800.00	
c. $FICON^{TM}$ (2.125 Gbps)			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYWW POYWW POYWW	1,700.00 1,300.00 2,400.00	
- protected channel			
36 month 60 month Monthly Extension	POYWP POYWP POYWP	3,400.00 2,600.00 4,800.00	

Cynthia Wales

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Executive Director

Date Filed: Dec. 24, 2003

(T)

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE 12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd)) I. CURRENT RATES (Cont'd) Current Monthly <u>USOC</u> <u>Rate</u>

 per port/per circuit terminating location (Cont'd)

d. ISC^{TM}

- unprotected channel

36 month	POYJW	\$3,250.00
60 month	POYJW	1,250.00
Monthly Extension	POYJW	4,600.00

Continued

Advice Letter No. 24470

Issued by

Cynthia Wales

Executive Director

CATEGORY III SERVICES	5		
D12. SPECIAL ACCESS SERV	VICE		
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd)			
2. Ports (Cont'd)	<u>USOC</u>	Current Monthly <u>Rate</u>	
 per port/per circuit terminating location (Cont'd) 			
e. Fibre Channel (1.0625 Gbps)			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYNW POYNW POYNW	\$1,200.00 900.00 1,700.00	
- protected channel			
36 month 60 month Monthly Extension	POYNP POYNP POYNP	2,400.00 1,800.00 3,400.00	
f. Fibre Channel (2.125 Gbps)			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYYW POYYW POYYW	1,700.00 1,300.00 2,400.00	
- protected channel			
36 month 60 month Monthly Extension	РОҮҮР РОҮҮР РОҮҮР	3,400.00 2,600.00 4,800.00	

Cynthia Wales

Executive Director

Date Filed: Dec. 24, 2003

CATEGORY III SERVICES	, J		
D12. SPECIAL ACCESS SERV	ICE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd) 2. Ports (Cont'd)</pre>	USOC	Current Monthly <u>Rate</u>	
 per port/per circuit terminating location (Cont'd) 			
g. Gigabit Ethernet			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYLW POYLW POYLW	\$ 1,200.00 900.00 1,700.00	
- protected channel			
36 month 60 month Monthly Extension	POYLP POYLP POYLP	2,400.00 1,800.00 3,400.00	
h. 10 (Ten) Gigabit Ethernet (WAN PHY)			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYTW POYTW POYTW	15,000.00 12,500.00 21,000.00	
- protected channel			
36 month 60 month Monthly Extension	POYTP POYTP POYTP	20,000.00 16,700.00 28,000.00	

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Executive Director

CATEGORY III SERVICE	S		
D12. SPECIAL ACCESS SER	VICE		
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd)		Current Monthly	
2. Ports (Cont'd)	USOC	Rate	
 per port/per circuit terminating location (Cont'd) 			
i. SONET OC-12/OC-12c			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYFW POYFW POYFW	\$1,300.00 1,000.00 1,900.00	
- protected channel			
36 month 60 month Monthly Extension	POYFP POYFP POYFP	2,600.00 2,000.00 3,700.00	
j. OC-48/OC-48c			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYGW POYGW POYGW	4,400.00 3,700.00 6,000.00	
- protected channel			
36 month 60 month Monthly Extension	POYGP POYGP POYGP	6,600.00 5,560.00 9,000.00	

Cynthia Wales

Executive Director

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CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERV	ICE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd) 2. Ports (Cont'd)</pre>	USOC	Current Monthly <u>Rate</u>	
 per port/per circuit terminating location (Cont'd) 			
k. SONET OC-192/OC-192c			
- unprotected channel			
36 month 60 month Monthly Extension	POYOW POYOW POYOW	\$15,000.00 12,500.00 21,000.00	
- protected channel			
36 month 60 month Monthly Extension	POYOP POYOP POYOP	20,000.00 16,700.00 28,000.00	
l. 10 Gigabit Ethernet (LAN-PHY)			(四)
- unprotected channel			
36 month 60 month Monthly Extension	POYUW POYUW POYUW	15,375.00 12,815.00 21,525.00	
- protected channel			
36 month 60 month Monthly Extension	POYUP POYUP POYUP	20,500.00 17,120.00 28,700.00	(N)

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Oynania Wales

Executive Director

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE		
	Current	
	Monthly	
USOC	Rate	
		(T)
POYSW	\$1,300.00	
POYSW	1,000.00	
POYSW	1,900.00	
POYSP	2,600,00	
POYSP	3,700.00	
		(N)
POYHW	100.00	
POYHW	150.00	
р∩унр	100 00	
POYHP	150.00	
	USOC POYSW POYSW POYSW POYSP POYSP POYSP POYSP POYSP POYHW POYHW POYHW POYHW	Current Monthly Rate POYSW \$1,300.00 POYSW \$1,000.00 POYSW 1,000.00 POYSW 1,900.00 POYSP 2,600.00 POYSP 3,700.00 POYSP 3,700.00 POYHW 100.00 POYHW 150.00 POYHW 150.00

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

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Continued

Advice Letter No. 24470

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Cynthia Wales

Executive Director

CATEGORY III SERVICES	S		
D12. SPECIAL ACCESS SERV	VICE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd)</pre>			
	USOC	Current Monthly Rate	
2. Ports (Cont'd)			
 per port/per circuit terminating location (Cont'd) 			
1. Sub-Rate System (Cont'd)			(T)
(2) Fast Ethernet ¹			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYCW POYCW POYCW	\$325.00 250.00 400.00	
- protected channel	FOICW	400.00	
36 month 60 month Monthly Extension	POYCP POYCP POYCP	500.00 400.00 650.00	
(3) D1 Video ¹			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYVW POYVW POYVW	100.00 100.00 150.00	
- protected channel			
36 month 60 month Monthly Extension	POYVP POYVP POYVP	100.00 100.00 150.00	

Continued

Advice Letter No. 24470 Decision No. Issued by

Cynthia Wales

Executive Director

CATEGORY III SERVICES	5		
D12. SPECIAL ACCESS SERV	ICE		
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd)			
2. Ports (Cont'd)	<u>USOC</u>	Current Monthly <u>Rate</u>	
 per port/per circuit terminating location (Cont'd) 			
l. Sub-Rate System (Cont'd)			(T)
(4) SONET OC-3/OC-3c ¹			(T)
- unprotected channel			
36 month 60 month Monthly Extension	POYEW POYEW POYEW	\$100.00 100.00 150.00	
- protected channel			
36 month 60 month Monthly Extension	POYEP POYEP POYEP	100.00 100.00 150.00	

Continued

Advice Letter No. 24470

Decision No.

Issued by

Cynthia Wales

Executive Director

CATEGORY III SERVICES			
D12. SPECIAL ACCESS SERVI	ICE		
<pre>12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd)</pre>		Current Monthly	
2. Ports (Cont'd)	USOC	Rate	
 per port/per circuit terminating location (Cont'd) 			
1. Sub-Rate System (Cont'd)			
(5) ESCON TM Sub-Rate System (8:1) 1			(N)
- unprotected channel			
36 month 60 month Monthly Extension	POY2W POY2W POY2W	\$ 1,500.00 1,125.00 1,950.00	
- protected channel			
36 month 60 month Monthly Extension	POY2P POY2P POY2P	3,000.00 2,250.00 3,900.00	(N)

(N)

Continued

Advice Letter No. 24470 Decision No. Issued by

Cynthia Wales

Executive Director

Effective: Feb. 3, 2004 Resolution No.

Date Filed: Dec. 24, 2003

Cancels Original Sheet 80.2

	ATEGORY III SERVICE SPECIAL ACCESS SER			
12.2 MULTI-SERVICE OPTICAL NETW H. CURRENT RATES (Cont'd)	NORK RING (Cont'd)			(T)
		USOC	Current Monthly <u>Rate</u>	
2. Ports (Cont'd)				
 per port/per circuit te location (Cont'd) 	erminating			
1. Sub-Rate System (Con	nt'd)			
(6) Gigabit Ethernet/F:	ibre Channel/FICON ^T	[™] Sub-Rate Sy	stem (2:1)	
- unprotected chanr	nel			
36 month		POY1W	\$ 875.00	
60 month		POY1W	700.00	
Monthly Extension	n	POY1W	1,140.00	
- protected channel				
36 month		POY1P	1,750.00	
60 month		POY1P	1,400.00	
Monthly Extension	ı	POY1P	2,280.00	
(a) Gigabit Ethernet	t Riding Circuit ¹			
- unprotected c	hannel			
36 month		POY4W	500.00	
60 month		POY4W	400.00	
Monthly Extensio	on	POY4W	650.00	
- protected cha	nnel			
36 month		POY4P	1,000.00	
60 month		POY4P	800.00	
Monthly Extensio	n	POY4P	1,300.00	
(b) Fibre Channel R:	iding Circuit ¹ (for	1.0625 Gbps	only)	
- unprotected ch	annel			
36 month		POY6W	500.00	
60 month		POY6W	400.00	
Monthly Extens	ion	POY6W	650.00	
- protected chan	nel			
36 month		POY6P	1,000.00	
60 month		POY6P	800.00	
Monthly Extens		POY6P	1,300.00	-
NOTE 1: Gigabit Ethernet and H ordered with Gigabit H				
set forth in 12.2,B.7		IIICT/ LICON D	up have bysich as	
			Continue	d
dvice Letter No. 26029	Issued by		Date Filed: Jan. 7, 20	05

Date Filed: Jan. 7, 2005 Effective: Feb. 18, 2005

Decision No.

Resolution No.

Cancels Original Sheet 80.3

D12. SPECIAL ACCESS SERV	ICE		
2.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. CURRENT RATES (Cont'd)			(T
	USOC	Current Monthly <u>Rate</u>	
2. Ports (Cont'd)			
 per port/per circuit terminating location (Cont'd) 			
1. Sub-Rate System (Cont'd)			
(6) Gigabit Ethernet/Fibre Channel/FICON TM	Sub-Rate Sy	ystem (2:1) (Cont'd)
(c) $FICON^{TM}$ Riding Circuit ¹ (for 1.0625	Gbps only)		
- unprotected channel			
36 month 60 month Monthly Extension	POY7W POY7W POY7W	\$ 400.00 320.00 480.00	
- protected channel			
36 month 60 month Monthly Extension	РОҮ7Р РОҮ7Р РОҮ7Р	800.00 640.00 960.00	
(7) OC3/OC-12 Sub Rate System (4:1)			
- unprotected channel			
36 month 60 month Monthly Extension	POY3W POY3W POY3W	1,000.00 750.00 1,300.00	
- protected channel			
36 month 60 month Monthly Extension	POY3P POY3P POY3P	2,000.00 1,500.00 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 12.2,B.7. preceding.

Continued

Advice Letter No. 26029

Rhonda Johnson

Date Filed: Jan. 7, 2005 Effective: Feb. 18, 2005 Resolution No.

Cancels Original Sheet 80.4

CATEGORY III SERVICES					
D12. SPECIAL ACCESS SERV	/ICE				
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) H. CURRENT RATES (Cont'd)			(T)		
2. Ports (Cont'd)	USOC	Current Monthly <u>Rate</u>			
 per port/per circuit terminating location (Cont'd) 					
1. Sub-Rate System (Cont'd)					
(8) OC-12 Riding Circuit ¹					
- unprotected channel					
36 month 60 month Monthly Extension	POY5W POY5W POY5W	\$ 500.00 375.00 700.00			
- protected channel					
36 month 60 month Monthly Extension	POY5P POY5P POY5P	1,000.00 750.00 1,400.00			

NOTE 1: OC-12 Riding Circuit only available when ordered with OC-3/OC-12 Sub Rate system as set forth in 12.2,B.7. preceding.

Continued

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Rhonda Johnson

Effective: Feb. 18, 2005

Executive Director

Decision No.

CATEGORY III SERVICES					
D12. SPECIAL ACCESS SERVICE	Ε				
12.2 MULTI-SERVICE OPTICAL NETWORK RING (Cont'd) I. CURRENT RATES (Cont'd)					
3. Non Recurring Charges	USOC	Current Nonreucrring <u>Charge</u>			
a. Administrative Charge					
- per service order	ORCMX	\$ 125.00			
b. Design and Central Office Connection Charge					
- per circuit	NRBCL	600.00			
c. Customer Connection Charge					
- Service Establishment ¹					
per node	NRBBL	7,500.00			
- Subsequent installation ² , (Riding Services	only)				
per subsequent shelf	NHCNL	1,000.00	(N)		

NOTE 1: Applies to establish the MON Network. NOTE 2: Applies to every riding service circuit after MON Network established.

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Issued by

Cynthia Wales

Date Filed: Feb. 24, 2003 Effective: Apr. 5, 2003 Resolution No.

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

12.3 FIBREMANSM SERVICE

A. SERVICE DESCRIPTION

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

FibreMANSM 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 (D) configurations provide full duplex transmission.

Continued

Advice Letter No. 26573

Decision No.

Issued by

Rhonda Johnson

Executive Director

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(N)

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.3 FIBREMANSM 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 FibreMANSM Service:

- The customer provided equipment (CPE) must deliver the data signal for the FibreMANSM transport within the industry specification for the subscribed data service.
- 2. FibreMANSM 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. FibreMANSM is designed to provide connectivity at the discrete bit rate of 1 Gbps or 2 Gbps.
- 4. FibreMANSM 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.
- FibreMANSM 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. FibreMANSM 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. FibreMANSM is not available in a Multi-Node configuration.
- 9. Node terminations are not available in Utility Serving Wire Centers.

Continued

(N)

Cynthia Wales

Executive Director

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

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

All basic service configurations provide full duplex transmission. FibreMANSM 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

FibreMANSM service is offered with Diversity. Diversity requires two FibreMANSM services purchased by the same customer of record. The customer premises locations for the two Diverse FibreMANSM 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.

Continued

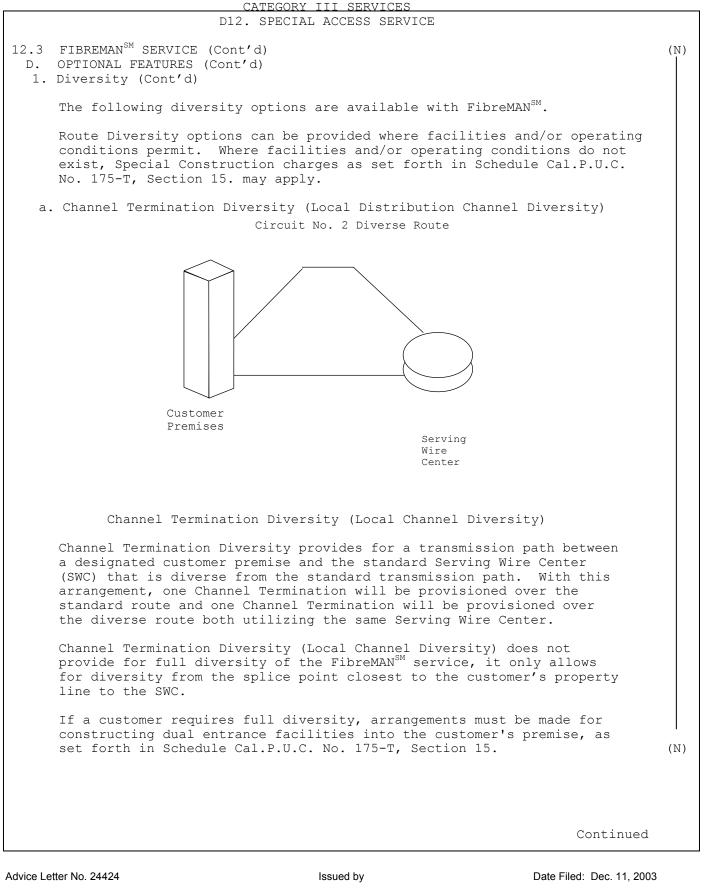
(D) (D)

Advice Letter No. 26573

Rhonda Johnson

Executive Director

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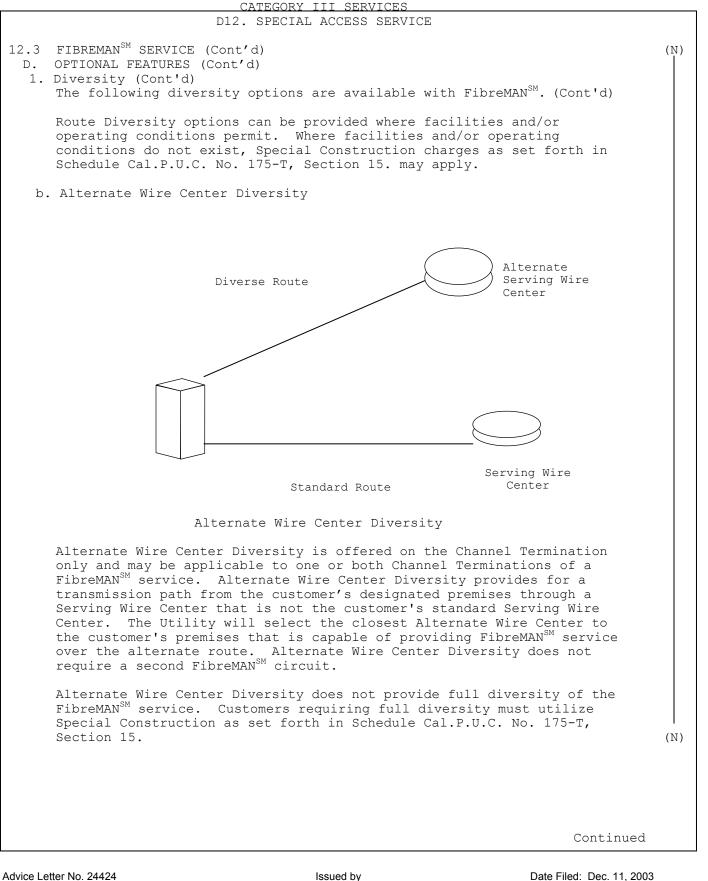


Decision No.

Cynthia Wales

Executive Director

Effective: Jan. 20, 2004 Resolution No.



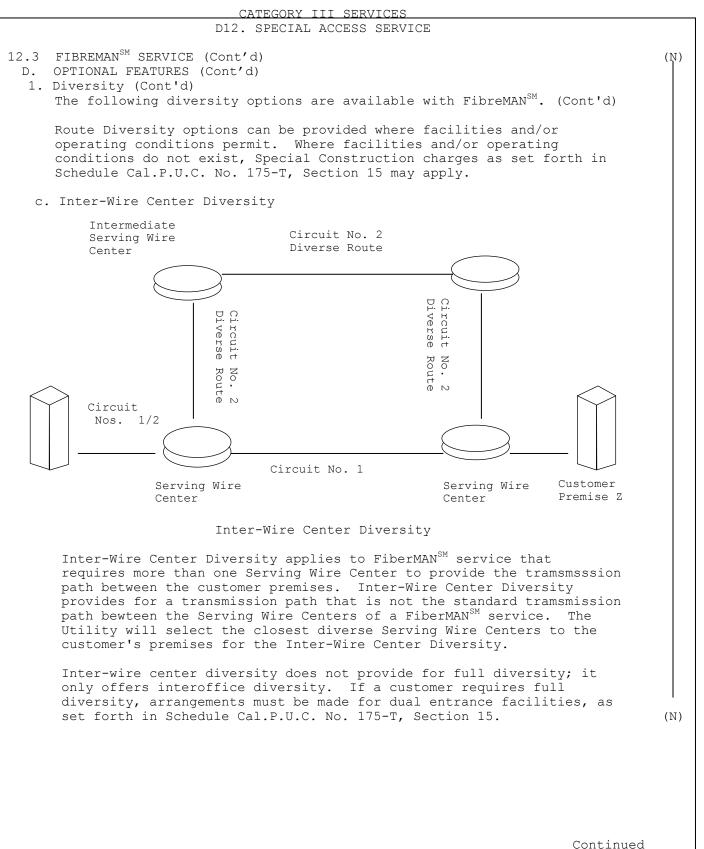
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CONTINUE

Advice Letter No. 24424

Cynthia Wales

Executive Director

Date Filed: Dec. 11, 2003 Effective: Jan. 20, 2004 Resolution No.

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(N)

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.3 FIBREMANSM SERVICE (Cont'd) D. OPTIONAL FEATURES (Cont'd)
 - 2. Repeater

A repeater (circuit regenerator) may be used to boost the transmission of FibreMANSM 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 FibreMANsm circuits will have at least one associated CO/wire center gateway.

Continued

Advice Letter No. 24681

Cynthia Wales

Executive Director

Date Filed: Mar. 3, 2004 Effective: Apr. 12, 2004 Resolution No.

CATEGORY III SERVICES				
	D12. SPECIAL ACCESS SERVICE			
12.3	FIBREMAN SM SERVICE (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:			
	SBC Technical Information Resource Management 2000 W. Ameritech Center Drive, Locn 3A09F Hoffman Estates, IL 60196			
	(847) 248-4328	(N)		

Cynthia Wales

Executive Director

Date Filed: Dec. 11, 2003 Effective: Jan. 20, 2004 Resolution No.

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

12.3 FIBREMANSM SERVICE (Cont'd)

- F. RATE REGULATIONS
- 1. Rate Elements

The applicable rate elements for FibreMANSM Service are as follows:

Channel Termination Channel Mileage Diversity Options Monthly Extension Rate Repeater

2. Term Pricing Plan (TPP) Offerings

 $\mathtt{FibreMAN}^{\mathtt{SM}}$ 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 (N) 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 (N) 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 (N) 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

Advice Letter No. 26573

Rhonda Johnson

Executive Director

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CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

12.3 FIBREMANSM SERVICE (Cont'd)

- F. RATE REGULATIONS (Cont'd)
 - 2. Term Pricing Plan (TPP) Offerings (Cont'd) FibreMANSM 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.

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Continued

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Executive Director

Date Filed: Dec. 11, 2003 Effective: Jan. 20, 2004 Resolution No.

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE 12.3 FIBREMANSM 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 12.3, 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, (N) the Termination Liability Charge shall apply as follows: (N) Term Termination Pricing Plan Percentage 100% 1 year 2 Year 100 50% for each subsequent year. 3 years 100% for first year, 50% for each subsequent year. 5 years 100% for first year, 50% for each subsequent year.

The termination charge is calculated as follows:

Months remaining in	х	Recurring	х	Termination	=	Termination Charge	(N)
Term Pricing Plan		Charges		Percentage			(N)
		1	1 1				(1)

Continued

(D) (D)

Rhonda Johnson

Executive Director

Date Filed: Apr. 13, 2005 Effective: Apr. 14, 2005 Resolution No.

CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.3 FIBREMANSM 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 FibreMANSM circuit path. The (T) 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 FibreMANSM Service.

5. Moves and Changes

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

- a. The customer may move one end of the FibreMANSM Service to a different premises in the same LATA, without incurring the Early Termination Liability charges for their existing FibreMANSM 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 FibreMANSM 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,
- (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 FibreMANSM service and placement of an order for the new FibreMANSM 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 FibreMANSM Service and placement of an order for new FibreMANSM Service.

(N)

(N)

Continued

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Decision No.

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CATEGORY III SERVICES D12. SPECIAL ACCESS SERVICE

- 12.3 FIBREMANSM SERVICE (Cont'd)
 - F. RATE REGULATIONS (Cont'd)
 5. Moves and Changes (Cont'd)

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

- b. The FibreMANSM Service was installed without Diversity and customers subsequently request Diversity options after the FibreMANSM 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 FibreMANSM Service, and a new nonrecurring charge is applicable. This change will require a disconnect of the existing FibreMANSM Service and placement of an order for the new FibreMANSM Service for the same customer of record. With this upgrade the customer will experience an Out of Service condition.
- c. The FibreMANSM Service was installed with Diversity options and the customers subsequently requests a move of the Channel Termination within the same premises after the FibreMANSM 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.

(N)

(N)

Continued

Rhonda Johnson

	ORY III SERVIC			
	CIAL ACCESS SE	RVICE		
12.3 FIBREMAN SM SERVICE (Cont'd)				(N)
G. MAXIMUM RATES AND CHARGES				
	USOC	Maximum Monthly Rate	Nonrecurring Charge	
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	(N)

Cynthia Wales

Executive Director

	CATEGORY II	I SERVICES		
	D12. SPECIAL A	CCESS SERVIC	E	
12.3 G.	FIBREMAN SM SERVICE (Cont'd) MAXIMUM RATES AND CHARGES (Cont'd)			(N)
		<u>USOC</u>	Maximum Monthly Rate	
2.	Channel Mileage			
a	. per mile/fixed			
	12 month			
	0 miles Over 0 miles	JZ4XS	NA \$333.25	
	24 month			
	0 miles Over 0 miles	JZ4XS	NA \$299.93	
	<u>36 month</u>			
	0 miles Over 0 miles	JZ4XS	NA \$266.60	
	60 month			
	0 miles Over 0 miles	JZ4XS	NA \$133.30	
	Monthly Extension			
	0 miles Over 0 miles	JZ4XS	NA \$333.25	(N)

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Executive Director

	CATEGORY II D12. SPECIAL A		F.	
12.3 G.	FIBREMAN SM SERVICE (Cont'd)		_	(N)
		USOC	Maximum Monthly Rate	
2.	Channel Mileage (Cont'd)			
b	. variable			
	12 month			
	0 miles Over 0 miles	JZ4XS	NA \$166.63	
	24 month			
	0 miles Over 0 miles	JZ4XS	NA \$153.30	
	36 month			
	0 miles Over 0 miles	JZ4XS	NA \$133.30	
	60 month			
	0 miles Over 0 miles	JZ4XS	NA \$99.98	
	Monthly Extension			
	0 miles Over 0 miles	JZ4XS	NA \$166.63	(N)

Cynthia Wales

Executive Director

	III SERVICE L ACCESS SER			
2.3 FIBREMAN SM SERVICE (Cont'd) G. MAXIMUM RATES AND CHARGES (Cont'		VICE		(1
3. Optional Features	USOC	Maximum Monthly <u>Rate</u>	Nonrecurring Charge	
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	(

Advice Letter No. 24424

Decision No.

Issued by

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CATEGOR	Y III SERVICE	IS		
D12. SPECI	AL ACCESS SEP	RVICE		
12.3 FIBREMAN SM SERVICE (Cont'd) G. MAXIMUM RATES AND CAHRGES (Con	ut'd)			
	USOC	Maximum Monthly Rate	Nonrecurring Charge	
3. Optional Features (Cont'd)				
d. Repeater				(N)
 per FibreMANSM 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	(N)

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Executive Director

Date Filed: Mar. 3, 2004 Effective: Apr. 12, 2004 Resolution No.

CATEGORY III SERVICES					
D12. SPECIA	L ACCESS SER	VICE			
12.3 FIBREMAN SM SERVICE (Cont'd)				(N)	
H. CURRENT RATES AND CHARGES					
	USOC	Current Monthly Rate	Nonrecurring Charge		
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	(N)	

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Executive Director

	CATEGORY II			
	D12. SPECIAL A	CCESS SERVIC	E	
12.3 Н.	FIBREMAN SM SERVICE (Cont'd) CURRENT RATES AND CHARGES (Cont'd)			(N)
2.	Channel Mileage	<u>USOC</u>	Current Monthly <u>Rate</u>	
a	. per mile/fixed			
	12 month			
	0 miles Over 0 miles	JZ4XS	NA \$250.00	
	24 month			
	0 miles Over 0 miles	JZ4XS	NA \$225.00	
	36 month			
	0 miles Over 0 miles	JZ4XS	NA \$200.00	
	60 month			
	0 miles Over 0 miles	JZ4XS	NA \$100.00	
	Monthly Extension			
	0 miles Over 0 miles	JZ4XS	NA \$250.00	(N)

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Executive Director

	CATEGORY II D12. SPECIAL A		E	
12.3 H.	FIBREMAN SM SERVICE (Cont'd) CURRENT RATES AND CHARGES (Cont'd)			(N)
2.	Channel Mileage (Cont'd)	<u>USOC</u>	Current Monthly <u>Rate</u>	
b	. variable			
	12 month			
	0 miles Over 0 miles	JZ4XS	NA \$125.00	
	24 month			
	0 miles Over 0 miles	JZ4XS	NA \$115.00	
	36 month			
	0 miles Over 0 miles	JZ4XS	NA \$100.00	
	60 month			
	0 miles Over 0 miles	JZ4XS	NA \$75.00	
	Monthly Extension			
	0 miles Over 0 miles	JZ4XS	NA \$125.00	(N)

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Executive Director

CATEGORY	III SERVICE	S		
D12. SPECIAL	ACCESS SER	VICE		
12.3 FIBREMAN SM SERVICE (Cont'd) H. CURRENT RATES AND CHARGES (Cont'	d)			(N)
	USOC	Current Monthly Rate	Nonrecurring Charge	
3. Optional Features				
a. Channel Termination Diversity (Local Distribution Channel Divesity)				
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 Divesity				
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 Divesity				
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	(N)

Advice Letter No. 24424 Decision No.

Issued by

Cynthia Wales Executive Director

Effective: Jan. 20, 2004 Resolution No.

CATEGORY	III SERVICE	ES		
D12. SPECIA	AL ACCESS SEP	RVICE		
12.3 FIBREMAN SM SERVICE (Cont'd) H. CURRENT RATES AND CAHRGES (Cont	t ' d)			
	USOC	Current Monthly Rate	Nonrecurring Charge	
3. Optional Features (Cont'd)				
d. Repeater				(N)
 per FibreMANSM 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	(N)

Cynthia Wales