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Decision 91-10-038 October 23, 1991

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Application of AT&T Communications of California, Inc. (U 5002 C) under Rule 15 for Authority to Provide an Intrastate ACCUNET® T-45 Digital Private Line Offering. Application 90-04-001 (Filed April 3, 1990).

ORIGINAL

FINAL OPINIONSummary

This decision authorizes AT&T Communications of California, Inc.'s (AT&T-C) private line long-run incremental cost (LRIC) estimating methodology for use in supporting AT&T-C's nonswitched private line advice letter filings. It also approves as final AT&T-C's proposed rates and rate bands for AT&T-C's ACCUNET T-45 high-speed digital private line service offering. AT&T-C is authorized to establish, for this service, limited regulatory flexibility bands permitting increases of up to 15% and decreases down to 15% from the final rates. In addition, AT&T-C is authorized to file rate increases and decreases, within the flexibility bands, on thirty (30) days' and five (5) days' notice, respectively, prior to their effective dates.

Statement of Facts

By Decision (D.) 90-06-063 dated June 20, 1990, the Commission granted AT&T-C interim provisional authority in this proceeding to provide intrastate inter- and intraLATA ACCUNET T-45, 44.736 megabits per second high-speed digital private line service. Further, the Commission ordered evidentiary hearings to be held for the development of a reasonable costing method to determine the

permanent rates and charges for this and other private line services of AT&T-C.<sup>1</sup>

The terms and conditions leading to this Commission granting interim authority to AT&T-C to offer intrastate ACCUNET T-45 service are contained in D.90-06-063. The descriptions of applicant and the ACCUNET T-45 service are also discussed in that decision, and therefore will not be repeated here.

In D.90-11-029, the Commission determined that:

"It is our goal to adopt reliable long-run incremental cost estimates as the standard for setting minimum rates and charges for all of AT&T-C's switched and private line services."

In that decision, the Commission authorized the use of AT&T-C's Transport Incremental Cost Model (TICM), a computer model, as a LRIC estimating methodology for most switched services. However, the TICM methodology as approved in D.90-11-029 was excluded from the application of managing LRIC estimates for nonswitched private line services. Consequently, the determination of a methodology for estimating LRIC for nonswitched private line services was integral to this proceeding.

#### Procedural Background

On July 24, 1990, a prehearing conference was held, at which evidentiary hearings were scheduled for early January 1991. In December, the assigned administrative law judge (ALJ) removed the proceeding from the calendar during a discovery dispute. When AT&T-C filed its rebuttal testimony on March 26, 1991, it concurrently sought a determination that evidentiary hearings were not ultimately necessary in this proceeding.

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1 D.90-06-063, Ordering Paragraph 12.

2 D.90-11-029 (READYLINE decision), Conclusion of Law 19.

AT&T-C contended that:

1. It and the Commission's Division of Ratepayer Advocates (DRA) were the only parties to serve testimony in this proceeding;
2. Neither sought to cross-examine the other's witness; and
3. No other parties had requested a hearing.

On May 22, 1991, the ALJ granted AT&T-C's motion to conclude this proceeding without hearing and permitted the parties to submit their testimony in the form of affidavits for admission as evidence. AT&T-C and DRA filed initial briefs on June 12, and reply briefs on June 26, 1991, whereupon this proceeding was submitted on June 26.

#### Private Line Service

AT&T-C's private line service offering is a dedicated, point-to-point communication connection. It consists of the communication paths ("channels") between premises or AT&T-C offices, furnished to a customer as a unit that is without intermediate automated switching capability.

AT&T-C's witness testified that private line service offerings are purchased by customers who have needs that cannot be fully satisfied by public-switched network services. Each private line service offering meets a specific customized need, such as voice communication connections to Foreign Exchange Service, low-speed data connections to automatic teller machines, and high-speed computer-to-computer connections.<sup>3</sup>

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<sup>3</sup> Direct Testimony of Gail Richardson (AT&T-C's Direct Testimony), p. 2.

AT&T-C's Private Line LRIC Analysis

In D.90-11-029, the Commission determined that LRIC is the appropriate cost standard to use as a price floor for AT&T-C's services. AT&T-C's testimony in this proceeding focused on the methodology used to estimate LRIC for AT&T-C's nonswitched private line service, and on the specifics of AT&T-C's LRIC estimate for ACCUNET T-45.

AT&T-C contends that its methodology for calculating the LRIC of nonswitched private line service offerings produces a reasonable and reliable estimate of LRIC because:

1. It is consistent with the fundamental principles outlined in D.90-11-029;
2. It uses data sources used to design, operate and manage AT&T-C's services; and
3. Its data preparation and calculations are readily accessible and reviewable.

AT&T-C's witness testified:

"The objective of the private line cost studies performed by AT&T is to estimate the LRIC of AT&T's service offerings. The fundamental principles followed are:

1. All costs that change as a result of a new service introduction or change in price for an existing service offering are included;
2. The most accurate data available is used, relying on the management and operational data bases used to design, operate, and manage AT&T's private line service;
3. A comprehensive forecast of demand for the new or repriced service offering is used; and

4. Conservative methods are used which tend to overstate, rather than understate LRIC."<sup>4</sup>

AT&T-C asserts that since LRIC is a forward-looking measure of the change in total long-run cost which any firm will experience in response to various alternative courses of action, it is necessary to include all costs which change and to base those costs on a comprehensive forecast of what will occur under each possible alternative. It argues that the demand forecasts in the private line service studies are developed using the techniques most in accordance with the particular private line service offering under study and the economic resources at issue. In fact, AT&T-C's witness testified that the forecast for ACCUNET T-45:

"...was derived from actual service inquiries and the cross-elastic effects of ACCUNET T1.5 customers who could potentially benefit from the price differential of the new service offering."<sup>5</sup>

Conceding that a comprehensive forecast of the expected demand change is essential to the development of an analysis of what cost elements will be affected by a new service or price change, AT&T-C maintains that identifying those cost elements and evaluating their impact accurately nevertheless depends on the study's ability to draw on actual engineering design, operating, and maintenance experience.<sup>6</sup> AT&T-C's witness testified that the specific study methodology used for private line service was comprised of the data base sources and data preparation modules identical to those used to support AT&T-C's TICM Analysis, reviewed

4 AT&T-C's Direct Testimony, pp. 2-3.

5 Id., p. 19.

6 AT&T-C's Initial Brief, p. 17.

in D.90-11-029, along with spreadsheet and results calculations comparable to those of TICM.<sup>7</sup>

AT&T-C argues that its private line LRIC estimating model produces reasonable and reliable LRIC estimates because it relies on the most accurate information available to it and prepares that information to calculate LRIC in a direct manner which the Commission can review and audit as necessary. Accordingly, AT&T-C requests that the Commission approve this analysis as support for all of its future private line service advice letter filings.<sup>8</sup>

DRA agreed that many of the factors used in the private line model are developed from data base sources identical to those in TICM, and were reviewed in D.90-11-029. One of DRA's witnesses testified that:

"...The majority of DRA's critical attention was paid to the applicability of the private line LRIC model's mechanics. DRA is primarily concerned that the principles of LRIC adopted for TICM be consistently applied to the private line LRIC model."

Essentially, according to DRA, the distinguishing elements between the private line LRIC model and TICM are in the methods of estimating the amount of investment required for a service and the way that the long-run effect of the investment is taken into account.

DRA contends that the Commission should limit its acceptance of AT&T-C's method of calculating private line LRIC to nonswitched private line services, as AT&T-C requests. It asserts

7 AT&T-C's Direct Testimony, pp. 3-4.

8 AT&T-C's Initial Brief, p. 11.

9 Testimony of Robert Wullenjohn (DRA Testimony), p. 11.

that the distinction in pricing policies for competitive services and monopoly services authorized by the Commission should be maintained.<sup>10</sup>

Overall, DRA found AT&T-C's private line LRIC model acceptable for estimating LRIC for nonswitched private line services. DRA testified that AT&T-C's proposed methodology is suitable for use in developing a price floor for nonswitched private line services. It states that it has no objection to the model being used as cost support for all of AT&T-C's nonswitched private line services, as long as none of the services reveals any elements of a monopoly service. Since the model requires service-specific inputs, DRA seeks to reserve the right to comment on the specifics of the model in each of its future applications.

#### Discussion

In D.90-11-029, we anticipated that the model and method approved there "would be used to develop floors of rates and charges for other new services of AT&T-C."<sup>11</sup> Both AT&T-C and DRA agree that the private line LRIC model submitted in this proceeding substantially meets the standards enunciated during the adoption of TICM and LRIC principles in D.90-11-029. DRA's principal concern is that AT&T-C's private line LRIC analysis not be used as cost support for a service which is found to have elements of a monopoly service.

Accordingly, we accept and approve of AT&T-C's private line LRIC estimating methodology for use in supporting all of AT&T-C's nonswitched private line service offerings. At the same time, given that the private line LRIC model requires various inputs specific to a service under study, we look forward to the

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10 DRA Testimony, p. 3.

11 D.90-11-029, (mimeo.) p. 36.

comments that DRA might have on the models supporting any of its comments AT&T-C's future applications. Rates and Flexibility Bands

The rate structure proposed by AT&T-C is in effect now on an interim basis. AT&T-C's Direct Testimony submits that this rate structure is identical to its interstate rate structure in Federal Communications Commission Tariffs 9, 10, and 11.<sup>12</sup> AT&T-C proposes a plus fifteen percent (+15%) and minus fifteen percent (-15%) rate band. It contends that the rates and rate bands proposed are just and reasonable because:

1. The service is needed and useful to California customers and is similarly offered by AT&T-C's competitors;
2. The price, along the proposed rate band, exceeds unit gross LRIC; and
3. The total incremental revenue of the service exceeds the total incremental cost of providing the service.<sup>13</sup>

DRA offered no testimony on this issue.

#### Discussion

One of the arguments that AT&T-C makes in support of its proposed rates and rate bands is that ACCUNET T-45 is needed, useful, and similarly offered by AT&T-C's competitors. We are aware that among the challenges facing any provider in the marketplace is that of setting rates to support an offering where the customers have the opportunity to choose among various vendors in order to select the most cost-effective one. After reviewing the testimony and the supporting record, the uncontested evidence is that even at the low end of the proposed rate band, the price

<sup>12</sup> AT&T-C's Direct Testimony, p. 18.

<sup>13</sup> AT&T-C's Initial Brief, p. 12.



exceeds the unit gross LRIC. Further, we accept AT&T-C's analysis that the total incremental revenue exceeds the total incremental cost. Consequently, we conclude that the proposed rates and rate bands are just and reasonable.

#### Findings of Fact

1. This Commission, by D.90-06-063, dated June 20, 1990, granted AT&T-C a certificate of public convenience and necessity with interim rate authority for ACCUNET T-45 digital private line service, and this service is now in place and available to AT&T-C's customers in California.

2. D.90-06-063 ordered that evidentiary hearings be held for the development of a reasonable costing method to determine the permanent rates and charges for ACCUNET T-45 and other private line services of AT&T-C.

3. The Commission determined, in D.90-11-029, to adopt reliable LRIC estimates as the standard for setting minimum rates and charges for all of AT&T-C's switched and private line services.

4. D.90-11-029 authorized the use of AT&T-C's TICM as a LRIC estimating methodology for most switched services.

5. The TICM methodology, as approved in D.90-11-029, was excluded from the application of managing-LRIC estimates for nonswitched private line services.

6. The determination of a LRIC estimating methodology for nonswitched private line services was essential to this proceeding.

7. There are no protests to granting permanent authority for this application; therefore, no hearing is deemed necessary for the cost methodology determination and final approval of AT&T-C's proposed rates and rate bands for ACCUNET T-45 digital private line service.

8. AT&T-C's private line service offering is a dedicated, point-to-point communication connection.

9. Private line service offerings are purchased by customers who have needs that cannot be fully satisfied by public switched network services.

10. The weight of the evidence indicates that AT&T-C's proposed LRIC estimating methodology for nonswitched private line service conforms to the fundamental principles of a LRIC study.

11. The proposed model is likely to produce reliable and reasonable estimates because it relies on data sources which are used to design, operate, and manage AT&T-C's private line service.

12. The proposed model is readily accessible to the Commission for review and audit.

13. The private line LRIC model requires various inputs specific to a service under study.

14. The evidence supporting AT&T-C's proposed rates and rate bands is uncontested.

**Conclusions of Law**

1. AT&T-C's proposed rates are just and reasonable, and should be used to establish the reference rates for further consideration of regulatory rate flexibility.

2. AT&T-C should be granted limited regulatory rate flexibility for ACCUNET T-45, in accordance with provisions of this order, to respond to competition by other telecommunications utilities who currently offer similar service.

3. AT&T-C's private line LRIC estimation methodology should be authorized as a basis for determining minimum rates and charges (floors) for any nonswitched private line service offering.

4. AT&T-C should be required to continue to work with the Commission Advisory and Compliance Division and DRA to maintain and provide documentation of private line LRIC model data results.

5. This order should be effective today to allow AT&T-C to continue to compete with other telecommunications utilities who currently offer similar service.

FINAL ORDER

1. AT&T Communications of California, Inc. (AT&T-C) (U-5002) is authorized to use its private line long-run incremental cost (LRIC) estimation methodology to determine the LRIC for its new competitive nonswitched private line service offerings.

2. AT&T-C is authorized to file the tariff sheets set forth in Appendix A to this opinion. They may be used by AT&T-C as reference rates for the additional regulatory rate flexibility provided for by this order.

3. AT&T-C is granted limited regulatory rate flexibility to establish rate bands of plus fifteen percent (+15%) and minus fifteen percent (-15%), above and below the reference rates established for the ACCUNET T-45 service listed in Ordering Paragraph 2 above.

4. AT&T-C is authorized to file an advice letter, after the effective date of this order, and in compliance with the provisions of General Order 96-A, containing the reference rates, and the rate bands authorized by Ordering Paragraphs 2 and 3 above.

5. Any rate reductions within the rate bands authorized by Ordering Paragraph 3 above, whether included in the advice letter described in Ordering Paragraph 4 above or a subsequent advice letter, will become effective not less than five (5) days after filing.

6. Any rate increases within the rate bands authorized by Ordering Paragraph 3 above, whether included in the advice letter described in Ordering Paragraph 4 above or a subsequent advice letter, will become effective not less than 30 days after filing. General Order 96-A Section VI is waived when such advice letter filings are made. No Commission Resolution will be required.

7. The ordering paragraphs and other requirements of Decision (D.) 90-06-063, issued June 20, 1990, and D.90-11-029,

issued November 9, 1990, except as expressly modified here, shall continue to apply to AT&T-C after the effective date of this order.

This order is effective today.

Dated October 23, 1991, at San Francisco, California.

PATRICIA M. ECKERT

President

JOHN B. OHANIAN

DANIEL Wm. FESSLER

NORMAN D. SHUMWAY

Commissioners

I CERTIFY THAT THIS DECISION  
WAS APPROVED BY THE ABOVE  
COMMISSIONERS TODAY

NEAL J. SHULMAN, Executive Director

## Private Line Services Tariff

LIST OF EFFECTIVE SHEETS

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

<u>Revision Number</u>	<u>Sheet</u>	<u>Revision Number</u>	<u>Sheet</u>	<u>Revision Number</u>	<u>Sheet</u>
10th <sup>1</sup>	CS A	Original	25	Original	66
9th <sup>1</sup>	CS B	Original	26	Original	67
2nd	MToC A	Original	27	Original	68
Original	ToC A	Original	28	Original	69
Original	ToC B	Original	29	Original	70
Original	ToC C	Original	30	Original	71
Original	ToC D	Original	31	Original	72
Original	ToC E	Original	32	1st	73
1st	ToC F	Original	33	2nd	74
1st	ToC G	Original	34	Original	75
1st	ToC H	1st	35	Original	76
1st	ToC I	Original	36	Original	77
1st	ToC J	Original	37	Original	78
Original	ToC J.1	Original	38	Original	79
1st	ToC K	Original	39	Original	80
Original	ToC K.1	Original	40	1st	81
Original	ToC L	Original	41	Original	81.1
Original	1	Original	42	Original	81.2
Original	2	Original	43	Original	81.3
1st	3	Original	44	Original	81.4
2nd	4	Original	45	1st	81.5
1st	5	Original	46	2nd	81.6
Original	6	Original	47	1st	81.7
Original	7	Original	48	Original	81.8
Original	8	Original	49	1st	81.9
Original	9	Original	50	Original	81.10
Original	10	Original	51	1st	81.11
Original	11	Original	52	2nd	81.12
Original	12	Original	53	2nd	81.13
Original	13	Original	54	Original	81.14
Original	14	Original	55	Original	81.15
Original	15	1st	56	Original	81.16
Original	16	1st	57	Original	81.17
Original	17	Original	57.1	Original	81.18
Original	18	Original	58	Original	81.19
Original	19	Original	59	Original	81.20
Original	20	Original	60	Original	81.21
Original	21	Original	61	Original	81.22
Original	22	Original	62	Original	81.23
Original	23	Original	63	Original	81.24
Original	24	Original	64		
		Original	65		

NOTE 1: Sheet Issued.

Continued

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

Effective:

Resolution No.

Private Line Services Tariff

LIST OF EFFECTIVE SHEETS

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

<u>Revision Number</u>	<u>Sheet</u>	<u>Revision Number</u>	<u>Sheet</u>
Original	81.25	1st	88.12
Original	81.26	1st	88.13
Original	81.27	Original	89
1st	82.1	Original	90
1st	82.1	1st	91
Original	82.2	Original	91.1
Original	82.3	Original	91.2
1st	82.4	Original	91.3
2nd	82.5	1st	92
1st	82.6	1st	93
Original	82.7	Original	93.1
Original	82.8	2nd	94
1st	82.9	1st	94.1
1st	82.10	Original	94.2
2nd	82.11	Original	94.3
2nd	82.12	1st	95
Original	82.12.1	Original	95.1
2nd	82.13	1st	96
Original	82.14	Original	96.1
Original	82.15	Original	96.2
Original	82.16	Original	96.3
Original	82.17	Original	96.4
Original	82.18	1st	97
Original	82.19	Original	97.1
Original	83	Original	97.2
Original	84	1st	98
Original	85	1st	99
Original	86	1st	100
Original	87	1st	101
1st	88	Original	101.1
Original	88.1	Original	101.2
1st	88.2	1st	102
Original	88.3	Original	102.1
Original	88.4	Original	103
Original	88.5	Original	104
Original	88.6	Original	105
1st	88.7	Original	106
Original	88.8	Original	107
Original	88.9	Original	108
Original	88.10	Original	109
Original	88.11	2nd	110

NOTE 1: Sheet Issued.

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C9. SECTION 12 - ACCUNET® T45 SERVICE

12.1 GENERAL (Cont'd)

12.1.6 CHARGE FOR ORDERS CANCELED

A charge will apply, per component, for service orders canceled by the Customer on or after the SID.

Critical Dates	Interoffice Channel Rate Range	USOC	Central Office Connection Rate Range	USOC	(T)
APP	0	NRZCN	0	NRZCN	(T)
SID	\$1,418.37-\$ 1,918.97		\$ 30.18-\$ 40.83		(T)
DLRD	\$1,607.49-\$ 2,174.83		\$ 34.20-\$ 46.28		(T)
RID	\$2,174.83-\$ 2,942.41		\$ 46.27-\$ 62.61		(T)
WOT	\$5,106.12-\$ 6,908.28		\$108.64-\$146.98		(T)
CTA	\$9,455.78-\$12,793.12		\$201.18-\$272.18		(T)
DD	\$9,455.78-\$12,793.12		\$201.18-\$272.18		(T)

The applicable charge is based on the last scheduled critical date reached in the service order process. For example, for an order involving an IOC and two central office connections which is canceled after the SID but prior to the DLRD, a total charge of \$1,739.67 will apply, consisting of \$71.00 for the two central office connections and \$1,668.67 for the IOC.

12.1.7 FIXED DISCOUNT RATE PLANS

One, two, three, four and five year fixed discount rate plans are available as alternatives to conventional monthly rates for the Interoffice channel component of ACCUNET T45 Service. In return for a commitment to an ACCUNET T45 IOC, a customer receives a discount off the month to month rates. Under the fixed discount rate plan, the percentage discount off of the rates under the monthly rate plan (consisting of a fixed and a mileage-based component) will be fixed throughout the commitment period. If the rates under the monthly rate plan change during the commitment period, the discount will be taken off of the lower rate.

A. DISCONTINUANCE OF A FIXED DISCOUNT RATE PLAN-WITHOUT LIABILITY

The Customer may discontinue an ACCUNET T45 IOC furnished under a fixed discount rate plan prior to the expiration of the applicable term, without liability, under the following conditions:

1. If tariff revisions increase the applicable fixed discount rate before the applicable term expires, without the Customer's prior written consent.

NOTE 1: See Price List for current rates and Reference Rate List for development of ranges.

(N)  
(N)

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## Private Line Services Tariff

## C9. SECTION 12 - ACCUNET® T45 SERVICE

## 12.1 GENERAL (Cont'd)

## 12.1.8 MULTISERVICE VOLUME PRICING PLAN (MSVPP) (Cont'd)

## E. EXPIRATION AND RENEWAL OF A MSVPP (Cont'd)

To continue the same service under monthly rates, no action is required on the part of the Customer. Upon expiration of a MSVPP, and unless notification to the contrary is received, the Customer's service will automatically be continued at rates specified under the monthly rate plan in effect at that time. In this case, the Customer will be considered to have satisfied the one-month minimum period.

## 12.2 SERVICE COMPONENTS AND RATES

The components of an ACCUNET T45 Service are Interoffice Channels, Central Office Connections and Office Functions:

## 12.2.1 INTEROFFICE CHANNEL

An ACCUNET T45 Interoffice Channel (IOC) is a channel between two AT&T central offices, points of connection, or a combination thereof, on AT&T's digital fiber optic network.

## A. RATES

The IOC monthly recurring charge comprises two elements. A fixed element applies per channel and a mileage element applies per airline mile of the IOC. Monthly, fixed discount rate plans and a MSVPP are available.

1. Monthly Plan

Mileage Band	USOC	Monthly Charge Range <sup>1</sup>		
		Fixed	Per Mile	
1 - 50	1LNXX	\$ 5,100.00-\$ 6,900.00	\$148.75-\$201.25	(T)
51 - 100	1LNXX	\$ 6,375.00-\$ 8,625.00	\$123.25-\$166.75	(T)
101 - 200	1LNXX	\$ 8,925.00-\$12,075.00	\$ 97.75-\$132.25	(T)
over 200	1LNXX	\$11,475.00-\$15,525.00	\$ 85.00-\$115.00	(T)

2. The following fixed discount rate plans are available for IOCs when ordered with a due date no later than May 14, 1991.

Term Commitment	Discounts
One Year	10.0%
Two Year	12.0%
Three Years	15.0%
Four Years	19.0%
Five Years	24.0%

NOTE 1: See Price List for current rate and Reference Rate List for development of ranges.

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## Private Line Services Tariff

## C9. SECTION 12 - ACCUNET® T45 SERVICE

## 12.2. SERVICE COMPONENTS AND RATES (Cont'd)

## 12.2.2 CENTRAL OFFICE CONNECTION

A Central Office Connection provides the function, at an AT&T central office, of interconnecting Interoffice Channels, office functions, Local Channels obtained from Schedule CAL P.U.C. No. 11 or other access, or an AT&T intrastate service located in an AT&T Central Office.

## A. RATES

	USOC	MONTHLY RATE RANGE <sup>1</sup>	INSTALLATION CHARGE RANGE <sup>1</sup>	(T)
- per Central Office Connection	05C++	\$255.00-\$345.00	\$436.90-\$591.10	(T)

## 12.2.3 OFFICE FUNCTIONS

## A. M28 MULTIPLEXING

The M28 Multiplexing Office Function provides for the derivation/combination of up to 28 DS1 channels from/into a 44.736 Mbps digital signal carried by an ACCUNET T45 IOC, a Terrestrial 45 Mbps Local Channel Service (from Schedule CAL P.U.C. No. 11), or Other Access.

The M28 Multiplexing Office Function is used in conjunction with another M28 Multiplexing Office Function in the same or at another AT&T central office, or with compatible Customer-provided multiplexing equipment located at the Customer's premises. Customer-provided multiplexing used in conjunction with ACCUNET T45 Service must transmit a standard DS3 type formatted 44.736 Mbps signal as described in Technical Publication-PUB 43802 (see Technical Publication Information, Sheet 6).

An ACCUNET T45 Central Office Connection is required to connect the 44.736 Mbps digital signal to this Office Function. In addition, ACCUNET T1.5 Central Office Connections are required to connect each DS1 channel to this office function.

	USOC	MONTHLY RATE RANGE <sup>1</sup>	INSTALLATION CHARGE RANGE <sup>1</sup>	(T)
- per M28 Multiplexing Office Function	M2X	\$850.00-\$1,150.00	\$425.00-\$575.00	(T)

NOTE 1: See Price List for current rate and Reference Rate List for development of ranges.

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## Private Line Services Tariff

## C9. SECTION 12 - ACCUNET® T45 SERVICE

## 12.2. SERVICE COMPONENTS AND RATES (Cont'd)

## 12.2.3 OFFICE FUNCTIONS (Cont'd)

## B. NETWORK PROTECTION CAPABILITY (NPC)

This office function provides protection against failure for an Interoffice Channel (IOC). Protection is furnished through the use of a switching arrangement that automatically switches to a separately routed, fiber optic protection channel when the working channel fails. The protection channel and the switching arrangement are provided when NPC is ordered.

NPC is offered where facilities are available. If this arrangement is not available, the Customer may cancel the request without penalty.

	USOC	MONTHLY RATE	INSTALLATION CHARGE RANGE <sup>1</sup>	(T)
- per IOC	APZNP	0.15 x the non-discounted monthly fixed and mileage charges for the protected IOC. This amount is then added to the Customer's monthly charge for the IOC.	\$850.00-\$1,150.00	(T)

## C. AUTOMATIC PROTECTION CAPABILITY

This office function provides protection against failure for a Local Channel or other access. Protection is furnished through the use of a switching arrangement that automatically switches to a spare channel when the working channel fails, as described in Technical Publication-PUB 54014, Addendum 2 (see Technical Publication Information, Sheet 6). The spare channel is not included and must be ordered separately. This office function also requires compatible equipment to be provided by the Customer at its premises.

	USOC	MONTHLY RATE RANGE <sup>1</sup>	INSTALLATION CHARGE RANGE <sup>1</sup>	(T)
- Per Automatic Protection Capability office function	APZ	\$637.50-\$862.50	\$425.00-\$575.00	(T)

NOTE 1: See Price List for current rate and Reference Rate List for development of ranges.

(N)  
(N)

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

Effective:

Resolution No.

GENERAL LIST OF EFFECTIVE SHEETS

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

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Original	6

NOTE 1: Sheet issued.

Advice Letter No.

Issued by

Date Filed

Decision No.

E. V. Forshee  
Regional Director

Effective

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C9. SECTION 12 - ACCUNET® T45 SERVICE.....	5.1 (N)
C9. SECTION 15 - MISCELLANEOUS FUNCTIONS AND ARRANGEMENTS.....	6

January 1992 11 ETCAL

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
 Regional Director

Date Filed:

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Resolution No.

Private Line Services Tariff

C9. SECTION 12 - ACCUNET® T45 SERVICES (N)				
Schedule Location	Rate Element	Monthly Charge	Installation Charge	USOC
12.1.6	IOC Cancellation Charge			
	APP		0	NRZCN
	SID		\$ 1,668.67	
	DLRD		1,891.16	
	RID		2,558.62	
	WOT		6,007.20	
	CTA		11,124.45	
	DD		11,124.45	
12.1.6	COC Cancellation Charge			
	APP		0	NRZCN
	SID		\$ 35.50	
	DLRD		40.24	
	RID		54.44	
	WOT		127.81	
	CTA		236.68	
	DD		236.68	
12.2.1.A.1.	IOC Fixed			1LNVX
	1-50	\$ 6,000.00		
	51-100	\$ 7,500.00		
	101-200	\$10,500.00		
	over 200	\$13,500.00		
12.2.1.A.1.	IOC Per Mile			1LNVX
	1-50	\$ 175.00		
	51-100	\$ 145.00		
	101-200	\$ 115.00		
	over 200	\$ 100.00		
12.2.2.A.	Central Office Connection	\$ 300.00	\$ 514.00	05C++
12.2.3.A.	M-28 Multiplexing office function	\$ 1,000.00	\$ 500.00	M2X
12.2.3.B.	NPC Office Function		\$ 1,000.00	APZNP
12.2.3.C.	Automatic Protection Capability	\$ 750.00	\$ 500.00	APZ

Continued

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed

Effective

Resolution No.

Private Line Services Tariff

GENERAL LIST OF EFFECTIVE SHEETS

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

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CRUC 101  
CIP  
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CO 101

NOTE 1: Sheet issued.

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

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Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

Effective:

Resolution No.

Private Line Services Tariff

REFERENCE RATE LIST

GENERAL

Effective April 28, 1990:

(N)

The following sheets list the rates used to establish the rate ranges throughout Schedule CAL. P.U.C. No. 9. All ranges were established at -15% to +5%.

Effective XXXX XX, 1990:

(N)

The following sheets with a footnote one (1), list the rates used to establish the rate ranges on various Tariff Sheets in Schedule Cal. P.U.C. No. 9. These ranges were established at -15% to +15%.

(N)

Advice Letter No.  
Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

Effective:

Resolution No.



Private Line Services Tariff

C9. SECTION 12 - ACCUNET® T45 SERVICES				(N)
Schedule Location	Rate Element	Monthly <sup>1</sup> Charge	Installation <sup>1</sup> Charge	USOC
12.1.6	IOC Cancellation Charge			
	APP		0	NRZCN
	SID		\$ 1,668.67	
	DLRD		1,891.16	
	RID		2,558.62	
	WOT		6,007.20	
	CTA		11,124.45	
	DD		11,124.45	
12.1.6	COC Cancellation Charge			
	APP		\$ 0	NRZCN
	SID		\$ 35.50	
	DLRD		\$ 40.24	
	RID		\$ 54.44	
	WOT		\$ 127.81	
	CTA		\$ 236.68	
	DD		\$ 236.68	
12.2.1.A.1.	IOC Fixed			1LNvx
	1-50	\$ 6,000.00		
	51-100	\$ 7,500.00		
	101-200	\$ 10,500.00		
	over 200	\$ 13,500.00		
12.2.1.A.1.	IOC Per Mile			1LNvx
	1-50	\$ 175.00		
	51-100	\$ 145.00		
	101-200	\$ 115.00		
	over 200	\$ 100.00		
12.2.2.A.	Central Office Connection	\$ 300.00	\$ 514.00	OSC++
12.2.3.A.	M-28 Multiplexing office function	\$ 1,000.00	\$ 500.00	M2X
12.2.3.B.	NPC Office Function		\$ 1,000.00	APZNP
12.2.3.C.	Automatic Protection Capability	\$ 750.00	\$ 500.00	APZ

Note 1: Utilized for a range of -15% to +15%

Continued

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

Effective:

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LIST OF EFFECTIVE SHEETS

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

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9th1	CS A	Original	26	Original	67
9th1	CS B	Original	27	Original	68
1st	MToC A	Original	28	Original	69
Original	ToC A	Original	29	Original	70
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Original	ToC F	Original	34	Original	75
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1st	ToC H	1st	36	Original	77
1st	ToC I	Original	37	Original	78
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1st	ToC K	Original	39	1st	80
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Original	1	Original	42	1st	83
Original	2	Original	43	1st	84
Original	3	Original	44	Original	85
1st	4	Original	45	Original	86
Original	5	Original	46	Original	87
Original	6	Original	47	Original	88
Original	7	Original	48	Original	89
Original	8	Original	49	Original	90
Original	9	Original	50	1st	91
Original	10	Original	51	Original	91.1
Original	11	Original	52	1st	92
Original	12	Original	53	Original	93
Original	13	Original	54	Original	94
Original	14	Original	55	Original	95
Original	15	Original	56	Original	95.1
Original	16	Original	57	1st	96
Original	17	Original	58	Original	97
Original	18	Original	59	2nd	98
Original	19	1st	60	1st	99
Original	20	1st	61	Original	99.1
Original	21	Original	61.1	Original	99.2
Original	22	Original	62	Original	99.3
Original	23	Original	63	Original	99.4
Original	24	Original	64	1st	100
Original	25	Original	65	1st	101
		1st	66		

NOTE 1: Sheet issued

Continued

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

Effective:

Resolution No.

Private Line Services Tariff

LIST OF EFFECTIVE SHEETS

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

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Original	106	1st	130.5
Original	107	Original	131
Original	108	Original	132
1st	109	Original	133
Original	110	1st	134
2nd	111	1st	135
Original	112	Original	136
Original	113	1st	137
1st	114	Original	138
Original	114.1	1st	139
Original	114.2	1st	140
Original	114.3	Original	141
Original	114.4	Original	142
Original	114.5	1st	143
Original	114.6	Original	144
1st	115	Original	145
1st	116	Original	146
1st	117	Original	147
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Original	127		
Original	128		

NOTE 1: Sheet issued 10/1/68 and other sheets not yet issued as of 10/1/68.

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

Effective:

Resolution No.

Private Line Local Channel Services

C11. SECTION 12 - TERRESTRIAL 45 MBPS LOCAL CHANNEL SERVICES

12.2. TERRESTRIAL 45 MBPS LOCAL CHANNEL SERVICE RATES (Cont'd)

12.2.2. ACCESS COORDINATION FUNCTION (ACF) (Cont'd)

A. RATES

	USOC	MONTHLY RATE RANGE <sup>1</sup>	INSTALLATION CHARGE RANGE <sup>1</sup>	(T)
- Per access coordination function	AHOAA	\$110.50-\$149.50	\$1,955.00-\$2,645.00	(T)

12.2.3. SPECIAL ACCESS SURCHARGE

In addition to the rates set forth in 12.2.1. and 12.2.2. preceding, a Special Access Surcharge applies to each voice grade equivalent channel, derived from a Terrestrial 45 Mbps Local Channel Service which is terminated at a PBX or equivalent device capable of interconnecting the derived channel with the local exchange network (for additional information regarding the application of the Special Access Surcharge, refer to the regulations set forth in Section 2.6. preceding).

A. RATES

STATE  
/LEC  
/LATA

USOC Monthly  
Rate Range<sup>1</sup> (T)

CA - RATE SCHEDULE 1 - PACB

722	973	Where applicable, per	SRBAP	\$22.31-\$30.19	(T)
724		Customer termination,		per voice grade	
726		each		equivalent channel	
728					
732		Where not applicable,	SRBEX	N/A	
734		per Customer termination,			
736		each			
738					

NOTE 1: See Price List for current rate and Reference Rate List<sup>2</sup> for development of ranges.

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

Effective:

Resolution No.

Private Line Local Channel Services

C11. SECTION 12 - TERRESTRIAL 45 MBPS LOCAL CHANNEL SERVICES

12.2. TERRESTRIAL 45 MBPS LOCAL CHANNEL SERVICE RATES (Cont'd)

12.2.3. SPECIAL ACCESS SURCHARGE (Cont'd)

A. RATES (Cont'd)

STATE  
/LEC  
/LATA

USOC

Monthly  
Rate Range<sup>1</sup>

(T)

CA - RATE SCHEDULE 1 - MTNB

666

Where applicable, per  
Customer termination,  
each

SRBAP

\$22.31-\$30.19  
per voice grade  
equivalent channel

(T)

Where not applicable,  
per Customer termination,  
each

SRBEX

N/A

CA - RATE SCHEDULE 1 - NEVB

720

Where applicable, per  
Customer termination,  
each

SRBAP

\$27.45-\$37.13  
per voice grade  
equivalent channel

(T)

Where not applicable,  
per Customer termination,  
each

SRBEX

N/A

CA - RATE SCHEDULE 2 - OTHER THAN PACB

722

724

Where applicable, per  
Customer termination,  
each

SRBAP

\$32.41-\$43.85  
per voice grade  
equivalent channel

(T)

726

728

730

732

734

736

Where not applicable,  
per Customer termination,  
each

SRBEX

N/A

738

740

973

670

Where applicable, per  
Customer termination,  
each

SRBAP

N/A

Where not applicable,  
per Customer termination,  
each

SRBEX

N/A

NOTE 1: See Price List for current rate and Reference Rate List<sup>2</sup>  
for development of ranges.

(N)

(N)

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

Effective:

Resolution No.

Private Line Services Tariff

GENERAL LIST OF EFFECTIVE SHEETS

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

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STAR2 - 1 AUGUST 1982 STAR2 - AD

NOTE 1: Sheet issued: 1 AUGUST 1982

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

Effective:

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Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

Effective:

Resolution No.

Private Line Services Tariff

C11. SECTION 12 - ACCUNET® T45 SERVICES

<u>Schedule Location</u>	<u>Rate Element</u>	<u>Monthly Charge</u>	<u>Installation Charge</u>	<u>USOC</u>
12.2.2.A.	Access Coordination Function	\$130.00	\$ 2,300.00	AHOAA
12.2.3.A.	Special Access Surcharge			SRBAP
	Rate Schedule 1-PACB	\$ 26.25		
	Rate Schedule 1-MTNB	\$ 26.25		
	Rate Schedule 1-NEVB	\$ 32.29		
	Rate Schedule 2- other than PACB	\$ 38.13		

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed: 10/1/66

Effective: 10/1/66

Resolution No.



Private Line Services Tariff

GENERAL LIST OF EFFECTIVE SHEETS

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

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Original	1
Original	2

NOTE 1: Sheet issued.

Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

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Advice Letter No.

Decision No.

Issued by

E. V. Forshee  
Regional Director

Date Filed:

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Private Line Services Tariff

REFERENCE RATE LIST

GENERAL

Effective XXXX XX, 1990:

The following sheets list the rates used to establish the rate ranges on various Tariff Sheets in Schedule Cal. P.U.C. No. 11. These ranges were established at -15% to +15%.

XXXX 2      XXXX-XXXX-XXXX  
XXXX 3      XXXX-XXXX-XXXX  
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XXXX 7      XXXX-XXXX-XXXX  
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XXXX 16      XXXX-XXXX-XXXX  
XXXX 17      XXXX-XXXX-XXXX  
XXXX 18      XXXX-XXXX-XXXX  
XXXX 19      XXXX-XXXX-XXXX  
XXXX 20      XXXX-XXXX-XXXX  
XXXX 21      XXXX-XXXX-XXXX  
XXXX 22      XXXX-XXXX-XXXX  
XXXX 23      XXXX-XXXX-XXXX  
XXXX 24      XXXX-XXXX-XXXX  
XXXX 25      XXXX-XXXX-XXXX  
XXXX 26      XXXX-XXXX-XXXX  
XXXX 27      XXXX-XXXX-XXXX  
XXXX 28      XXXX-XXXX-XXXX  
XXXX 29      XXXX-XXXX-XXXX  
XXXX 30      XXXX-XXXX-XXXX  
XXXX 31      XXXX-XXXX-XXXX  
XXXX 32      XXXX-XXXX-XXXX  
XXXX 33      XXXX-XXXX-XXXX  
XXXX 34      XXXX-XXXX-XXXX  
XXXX 35      XXXX-XXXX-XXXX  
XXXX 36      XXXX-XXXX-XXXX  
XXXX 37      XXXX-XXXX-XXXX  
XXXX 38      XXXX-XXXX-XXXX  
XXXX 39      XXXX-XXXX-XXXX  
XXXX 40      XXXX-XXXX-XXXX  
XXXX 41      XXXX-XXXX-XXXX  
XXXX 42      XXXX-XXXX-XXXX  
XXXX 43      XXXX-XXXX-XXXX  
XXXX 44      XXXX-XXXX-XXXX  
XXXX 45      XXXX-XXXX-XXXX  
XXXX 46      XXXX-XXXX-XXXX  
XXXX 47      XXXX-XXXX-XXXX  
XXXX 48      XXXX-XXXX-XXXX  
XXXX 49      XXXX-XXXX-XXXX  
XXXX 50      XXXX-XXXX-XXXX  
XXXX 51      XXXX-XXXX-XXXX  
XXXX 52      XXXX-XXXX-XXXX  
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Advice Letter No. \_\_\_\_\_

Decision No. \_\_\_\_\_

Issued by

E. V. Forshee  
Regional Director

Date Filed: \_\_\_\_\_

Effective: \_\_\_\_\_

Resolution No. \_\_\_\_\_

Private Line Services Tariff

C11. SECTION 12 - ACCUNET® T45 SERVICES

<u>Schedule Location</u>	<u>Rate Element</u>	<u>Monthly Charge</u>	<u>Installation Charge</u>	<u>USOC</u>
12.2.2.A.	Access Coordination Function	\$130.00	\$ 2,300.00	AHOAA
12.2.3.A.	Special Access Surcharge			SRBAP
	Rate Schedule 1-PACB	\$ 26.25		
	Rate Schedule 1-MTNB	\$ 26.25		
	Rate Schedule 1-NEVB	\$ 32.29		
	Rate Schedule 2- other than PACB	\$ 38.13		

(END OF APPENDIX A)

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