

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services

13.1 addresses Additional Engineering. 13.2 addresses Additional Labor (which is comprised of Overtime Installation, Overtime Repair, Stand by, Testing and Maintenance with Other Telephone Companies, and Other Labor). 13.3 addresses Miscellaneous Services (which are comprised of Testing Services, Maintenance of Service and Telecommunications Service Restoration Priority). 13.4 addresses Presubscription.

In this section, normally scheduled working hours are an employee's scheduled work period in any given calendar day (e.g., 8:00 a.m. to 5:00 p.m.) for the application of rates based on working hours.

A Miscellaneous Service Order charge as described in 5.4.2 preceding may be applicable to services ordered from this section.

13.1 Additional Engineering

Additional Engineering, including engineering reviews as set forth in 5.4.3 preceding, will be undertaken only after the Telephone Company has notified the customer that additional engineering charges apply as set forth in 16.4.2 following, and the customer agrees to such charges.

Additional Engineering will be provided by the Telephone Company at the request of the customer only when:

- (A) A customer requests additional technical information after the Telephone Company has already provided the technical information normally included on the Design Layout Report (DLR) as set forth in 6.1.5 and 7.1.6 preceding.
- (B) Additional engineering time is incurred by the Telephone Company to engineer a customer's request for a customized service as set forth in 7.1.2 preceding.
- (C) A customer requested Design Change requires the expenditure of additional engineering time. Such additional engineering time is incurred by the Telephone Company for the engineering review as set forth in 5.4.3 preceding. The charge for additional engineering

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.1 Additional Engineering (Cont'd)

## (C) (Cont'd)

time relating to the engineering review, which is undertaken to determine if a Design Change is indeed required, will apply whether or not the customer authorizes the Telephone Company to proceed with the Design Change. In this case the Design Change charge, as set forth in 16.4.1(C) following, does not apply unless the customer authorizes the Telephone Company to proceed with the Design Change.

13.2 Additional Labor

Additional Labor is that labor requested by the customer on a given service and agreed to by the Telephone Company as set forth in 13.2.1 through 13.2.5 following. The Telephone Company will notify the customer that additional labor charges as set forth in 16.4.3 following will apply before any additional labor is undertaken. When provisioning or restoring Telecommunications Service Priority services, the Telephone Company will, when possible, notify the customer of the applicability of these Additional Labor charges.

13.2.1 Overtime Installation

Overtime installation is that Telephone Company installation effort outside of normally scheduled working hours.

13.2.2 Overtime Repair

Overtime repair is that Telephone Company effort performed outside of normally scheduled working hours.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.2 Additional Labor (Cont'd)13.2.3 Stand by

Stand by includes all time in excess of one-half (1/2) hour during which Telephone Company personnel stand by to make installation acceptance tests or cooperative tests with a customer to verify facility repair on a given service.

13.2.4 Testing and Maintenance with Other Telephone Companies

Additional testing, maintenance or repair of facilities which connect other telephone companies is that which is in addition to the normal effort required to test, maintain or repair facilities provided solely by the Telephone Company.

13.2.5 Other Labor

Other labor is that additional labor not included in 13.2.1 through 13.2.4 preceding and labor incurred to accommodate a specific customer request that involves only labor which is not covered by any other section of this tariff.

13.3 Miscellaneous Services13.3.1 Testing Services

Testing Services offered under this section of the tariff are optional and subject to rates and charges as set forth in 16.4.4 following. Other testing services, as described in 6.2.4 and 7.1.7 preceding, are provided by the Telephone Company in association with Access Services and are furnished at no additional charge.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.1 Testing Services (Cont'd)

Testing services are normally provided by Telephone Company personnel at Telephone Company locations. However, provisions are made in (B)(2) following for a customer to request Telephone Company personnel to perform testing services at the customer designated premises.

The offering of Testing Services under this section of the tariff is made subject to the availability of the necessary qualified personnel and test equipment at the various test locations mentioned in (A) and (B) following.

(A) Switched Access Service

Testing Services for Switched Access are comprised of (a) tests which are performed during the installation of a Switched Access Service, i.e., Acceptance Tests, (b) tests which are performed after customer acceptance of such Access Services and which are without charge i.e., routine testing and (c) additional tests which are performed during or after customer acceptance of such access services and for which additional charges apply, i.e., Additional Cooperative Acceptance Tests and in-service tests.

Routine tests are those tests performed by the Telephone Company on a regular basis, as set forth in 6.2.4 preceding which are required to maintain Switched Access Service. Additional in-service tests may be done on an automatic basis (no Telephone

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.1 Testing Services (Cont'd)(A) Switched Access Service (Cont'd)

Company or customer technicians involved), on a manual basis [Telephone Company technician(s) involved at Telephone Company office(s) and Telephone Company or customer technician(s) involved at the customer designated premises].

Testing services are ordered to the Dial Tone Office for FGA, to the access tandem or end office for FGB (wherever the FGB service is ordered) and to the end office for FGD. Testing Services for Directory Assistance Service not routed through an access tandem is ordered to a Directory Assistance Location for each NPA.

(1) Additional Cooperative Acceptance Testing

Additional Cooperative Acceptance Testing of Switched Access Service involves the Telephone Company provision of a technician at its office(s) and the customer provision of a technician at its premises, with suitable test equipment to perform the required tests.

Additional Cooperative Acceptance Tests may, for example, consist of the following tests:

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.1 Testing Services (Cont'd)(A) Switched Access Service (Cont'd)(1) Additional Cooperative Acceptance Testing  
(Cont'd)

- Impulse Noise
- Phase Jitter
- Signal to C-Notched Noise Ratio
- Intermodulation (Nonlinear) Distortion
- Frequency Shift (Offset)
- Envelope Delay Distortion
- Dial Pulse Percent Break

(2) Additional Automatic Testing

Additional Automatic Testing (AAT) of Switched Access Services (Feature Groups B, and D), is a service where the customer provides remote office test lines and 105 test lines with associated responders or their functional equivalent. The customer may order, at additional charges, gain-slope and C-notched noise testing and may order the routine tests (1004 Hz loss, C-Message Noise and Balance) on an as needed or more than routine schedule.

The Telephone Company will provide an AAT report that lists the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on an as-occurs basis.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.1 Testing Services (Cont'd)(A) Switched Access Service (Cont'd)(2) Additional Automatic Testing (Cont'd)

The Additional Tests, (i.e., gain slope, C-notched noise, 1004 Hz loss, C-Message Noise and Balance) may be ordered by the customer at additional charges, 60 days prior to the start of the customer prescribed schedule. The rates for Additional Automatic Tests are as set forth in 16.4.4(B) following.

(3) Additional Manual Testing

Additional Manual Testing (AMT) of Switched Access Services (Feature Groups A, B, and D and Directory Access Service not routed through an access tandem), is a service where the Telephone Company provides a technician at its office(s) and the Telephone Company or customer provides a technician at the customer designated premises, with suitable test equipment to perform the required tests. Such additional tests will normally consist of gain-slope and C-notched noise testing. However, the Telephone Company will conduct any additional tests which the IC may request.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.1 Testing Services (Cont'd)(A) Switched Access Service (Cont'd)(3) Additional Manual Testing (Cont'd)

The Telephone Company will provide an AMT report listing the test results for each trunk tested. Trunk test failures requiring customer participation for trouble resolution will be provided to the customer on a per occurrence basis.

The Additional Manual Tests may be ordered by the customer at additional charges, 60 days prior to the start of the testing schedule as mutually agreed to by the customer and the Telephone Company.

The rates for Additional Manual Testing are as set forth in 16.4.4(C) following.

(4) Obligations of the Customer

(A) The customer shall provide the Remote Office Test Line priming data to the Telephone Company, as appropriate, to support routine testing as set forth in 6.2.4(B) preceding or AAT as set forth in 13.3.1(A)(2) preceding.

(B) The customer shall make the facilities to be tested available to the Telephone Company at times mutually agreed upon.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.1 Testing Services (Cont'd)(B) Special Access Service (Cont'd)

The Telephone Company will provide assistance in performing specific tests requested by the customer.

(1) Additional Cooperative Acceptance Testing

When a customer provides a technician at its premises or at an end user's premises, with suitable test equipment to perform the requested tests, the Telephone Company will provide a technician at its office for the purpose of conducting Additional Cooperative Acceptance Testing on Voice Grade Services. At the customer's request, the Telephone Company will provide a technician at the customer's premises or at the end user premises. These tests may, for example, consist of the following:

- Attenuation Distortion (i.e., frequency response)
- Intermodulation Distortion (i.e., harmonic distortion)
- Phase Jitter
- Impulse Noise
- Envelope Delay Distortion
- Echo Control
- Frequency Shift

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.1 Testing Services (Cont'd)(B) Special Access Service (Cont'd)(2) Additional Manual Testing

The Telephone Company will provide a technician at its premises, and the Telephone Company or customer will provide a technician at the customer's designated premises with suitable test equipment to perform the requested tests.

(3) Obligation of the Customer

When the customer subscribes to Testing Service as set forth in this section, the customer shall make the facilities to be tested available to the Telephone Company at time mutually agreed upon.

13.3.2 Maintenance of Service

- (A) When a customer reports a trouble to the Telephone Company for clearance and no trouble is found in the Telephone Company's facilities, the customer shall be responsible for payment of a Maintenance of Service charge as set forth in 16.4.4(F) following for the period of time from when Telephone Company personnel are dispatched, at the request of the customer, to the customer designated premises to when the work is completed. Failure of Telephone Company personnel to find trouble in Telephone Company facilities will result in no charge if the trouble is actually in those facilities, but not discovered at the time.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.2 Maintenance of Service

- (B) The customer shall be responsible for payment of a Maintenance of Service charge when the Telephone Company dispatches personnel to the customer designated premises, and the trouble is in equipment or communications systems provided by other than the Telephone Company or in detariffed CPE provided by the Telephone Company.

In either (A) or (B) preceding, no credit allowance will be applicable for the interruption involved if the Maintenance of Service Charge applies.

13.3.3 Telecommunications Service Priority - TSP

- (A) Priority installation and/or restoration of National Security Emergency Preparedness (NSEP) telecommunications services shall be provided in accordance with Part 64.401, Appendix A, of the Federal Communications Commission's (FCC's) Rules and Regulations.

In addition, TSP System service shall be provided in accordance with the guidelines set forth in "Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook" (NCSH 3-1-2) dated July 9, 1990, and "Telecommunications Service Priority System for National Security Emergency Preparedness Service User Manual" (NCSM 3-1-1).

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.3 Miscellaneous Services (Cont'd)13.3.3 Telecommunications Service Priority - TSP

## (A) (Cont'd)

The TSP System is a service, developed to meet the requirements of the Federal Government, as specified in the Service Vendor's Handbook and Service User's Manual which provides the regulatory, administrative and operational framework for the priority installation and/or restoration of NSEP telecommunications services. These include both Switched and Special Access Services. The TSP System applies only to NSEP telecommunications services, and requires and authorizes priority action by the Telephone Company providing such services.

For Switched Access Service, the TSP System's applicability is limited to those services which the Telephone Company can discreetly identify for priority provisioning and/or restoration.

(B) A Telecommunications Service Priority (TSP) charge applies as set forth in 16.4.4(G) when a request to provide or change a TSP is received subsequent to the issuance of an Access Order to install the service.

Additionally, a Miscellaneous Service Order Charge as set forth in 16.4.1(D) will apply to TSP requests that are ordered subsequent to the initial installation of the associated access service.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.3 Telecommunications Service Priority - TSP (Cont'd)

(B) (Cont'd)

A TSP charge does not apply when a TSP is discontinued or when ordered coincident with an Access Order to install or change service.

In addition, Additional Labor rates as set forth in 16.4.3 may be applicable when provisioning or restoring Switched or Special Access Services with TSP.

When the customer requests an audit or a reconciliation of the Telephone Company's TSP records, a Miscellaneous Service Order Charge as set forth in 16.4.1 (D) and Additional Labor rates as set forth in 16.4.3 are applicable.

13.3.4 Bill Name and Address Information

The term "telecommunications service providers," as used in this provision, includes interexchange carriers, operator services providers, enhanced service providers and other providers of interstate telecommunications services. Telecommunications service providers may request Billing Name and Address information ("BNA") of the Telephone Company or the Telephone Company's billing agent for a specifically stated Billed Telephone Number (BTN).

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\* New or revised page: material reissued pursuant to special permission No. 94-495 to defer effective date to offer BNA information for unpublished and unlisted customers from April 23, 1994 to may 7, 1994.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.4 Bill name and Address Information (Cont' d)

BNA may be used only for billing purposes, order entry, customer service, fraud prevention and identification of customers who have moved from one location to another, per FCC Order 93-535, Docket 91-115. This information may not be used for marketing purposes and may not be disclosed to third parties other than governmental law enforcement agencies, per FCC Order 93-535, Docket No. 91-115.

The Telephone company will provide BNA to telecommunications service providers on a per-request basis, using rates specified in 16.4.4(H). BNA will be provided for all BTNs except where the subscriber' s number is unpublished or unlisted and the subscriber has notified the Telephone Company that they do not want their BNA released for calling card calls and/or collect or third party calls.)

(D)\*

(D)\*

\*Tariff page revised pursuant to Transmittal No. 98.

ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.3 Miscellaneous Services (Cont'd)

13.3.4 Bill name and Address Information (Cont' d)

(D)\*  
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(D)\*

Requests for BNA must be submitted in writing. The request must be accompanied by: 1) Carrier identification code, 2) specific BTNs for which BNA is requested, and 3) Contact name and number for verification.

BNA will be provided in written form, on paper copy, or diskette, or on magnetic tape where available.

13.4 Presubscription

Pursuant to the Federal Communications Commission's Memorandum Opinion and Order, CC Docket No. 83-1145, Phase I, adopted May 31, 1985, and released June 12, 1985, the Allocation Plan, outlined in the Appendix B of this Order, is available for inspection in the Public Reference Room of the Tariff Division at the Federal Communications Commission's Washington, D.C., location or may be obtained from the Commission's commercial contractor.

\* Tariff page revised pursuant to Transmittal No. 98.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.4 Presubscription (Cont'd)

Presubscription is the process by which end user customers may select and designate to the Telephone Company an IC to access, without an access code, for intrastate or interstate calls. This IC is referred to as the end user's predesignated IC.

- (A) New end users who are served by end offices equipped with Feature Group D will be asked to presubscribe to an IC at the time they place an order with the Telephone Company for Telephone Exchange Service.

They may select either of the following options.  
There will be no charge for this initial selection.

- a primary interstate IC for all of its lines,
- a primary intrastate IC for all of its lines,
- a different interstate IC for each of its lines,
- a different intrastate IC for each of its lines.

Only one IC may be selected for each individual line, or lines terminating in the same hunt group. Subsequent to the installation of Telephone Exchange Service and after the end user's initial selection of a predesignated IC, for any change in selection, a nonrecurring charge, as set forth in 16.4.4(H) following, applies.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.4 Presubscription (Cont'd)

- (B) If the new end user fails to designate an IC as its predesignated IC prior to the date of installation of Telephone Exchange Service, the Telephone Company will (1) allocate the end user to an IC based upon current IC presubscription ratios, (2) require the end user to dial an access code (10XXX) for all interstate calls, or (3) block the end user from interstate calling. The end user will be notified which option will be applied if they fail to presubscribe to an IC. An allocated or blocked end user may designate another, or initial, IC as its predesignated IC one time at no charge, if it is requested within six months after the installation of Telephone Exchange Service.

For any change in selection after 6 months from the installation of Telephone Exchange Service, a nonrecurring charge, as set forth in 16.4.4(H) following applies.

- (C) If an IC elects to discontinue its Feature Group D Service offering prior to or within 2 years of the conversion, the IC will notify the Telephone Company of the cancellation. The IC will also notify all end users which selected them that they are canceling their service and that they should contact the Telephone Company to select a new primary IC. The IC will also inform the end user that it will pay the presubscription change charge. The canceling IC will then be billed by the Telephone Company the appropriate charge for each end user for a period of two years from the discontinuance of Feature Group D service.
- (D) If an IC elects to change a Carrier Identification Code (CIC) due to the surrendering of a CIC to the North American Numbering Plan Administration for reassignment, the presubscription change charge will be waived. The waiver is applied only when the IC surrenders the CIC on a nationwide basis. The waiver is effective until January 1, 1993.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.4 Presubscription (Cont'd)

- (E) If an IC elects to change or discontinue use of a CIC for any reasons other than those set forth in (D) or (E) above, the IC will identify to the Telephone Company any affected end users and advise the Telephone Company of the new CIC to be assigned to these end users. If the CIC change involves a change of carrier for any end users, the IC will notify the affected end users of the change. The telephone company will change the predesignated carrier code of each end user identified by the IC to the new CIC and bill the IC the nonrecurring charge set forth in 16.4.4(H) following for each end user line or trunk that is changed.

13.5 Verification of Orders for Long Distance Telemarketing

No IC shall submit to the Telephone Company a Primary Interexchange Carrier (PIC) change order generated by telemarketing unless and until the order has first been confirmed in accordance with one of the following procedures:

- (A) The IC obtains the billed party's (e.g., an end user or the designator of the PIC for a pay telephone) written authorization to submit the PIC change order and confirms:
- The billed party's billing name and address and each telephone number to be covered by the PIC change order;
  - The billed party's decision to change the PIC to the IC; and
  - The billed party's understanding of the PIC change fee; or

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Verification of Orders for Long Distance Telemarketing (Cont'd)

- (B) The IC obtains the billed party's electronic authorization to submit the PIC change order. The billed party will place a call, from the telephone number(s) on which the PIC is to be changed, to a toll free number that is dedicated to the IC's PIC verification process. The verification number will connect the billed party to a voice response unit that records the originating ANI and the required information described in (A) preceding; or
- (C) An appropriately qualified and independent third party, operating in a location physically separate from the telemarketing representative, obtains the billed party's oral authorization to submit the PIC change order. This authorization must confirm the order and include appropriate verification data (e.g., the billed party's date of birth or social security number); or
- (D) Within three business days of the billed party's request for a PIC change, the IC must send them an information package by first class mail which includes:
- a statement that the enclosed information is being sent to confirm a telemarketing order placed by the billed party within the previous week,
  - the name of the current and soliciting ICs,
  - the terms, conditions or charges for the PIC change,
  - the name, address and telephone number of both the customer and the soliciting IC.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.5 Verification of Orders for Long Distance Telemarketing (Cont'd)

## (D) (Cont'd)

- a statement advising the billed party that, absent their response, the change will be implemented 14 days from the date the information package was mailed to them,
- the name, address and telephone number of a contact point at the FCC for consumer complaints.

The IC must provide a post paid postcard which the billed party can use to deny, cancel or confirm the order. The IC must wait 14 days after the information package is mailed to the billed party before submitting the PIC change order to the telephone company.

13.6 Unauthorized PIC Change

If an IC requests a PIC change on behalf of a billed party (e.g., an end user or the designator of the PIC for a pay telephone), and the billed party subsequently denies requesting the change, and the IC is unable to substantiate the change with a letter of agency signed by the billed party; then:

- The billed party will be reassigned to their previously selected IC. No charge will apply to the billed party for this reassignment.
- The Unauthorized Presubscription Change Charge as set forth in 16.4.4(l) will apply to the IC that requested the unauthorized PIC change. This charge is applied in addition to the \$5.00 PIC change charge.

## ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.7 Blocking Service (S)13.7.1 International Blocking Service (S)

The Telephone Company will provide International Blocking Service to customers who obtain local exchange service from the Telephone Company under its general or local exchange tariffs and to customers who obtain Feature Group A Switched Access service under this tariff. This service is only provided at appropriately equipped Telephone Company end offices. Those offices providing International Blocking Service are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC. TARIFF F.C.C. NO. 4.

On each line or trunk for which International Blocking Service is ordered, the Telephone Company will block all direct dialed international calls that use the call sequence of 011+ or 10XXX-011+. When capable, the Telephone Company will route the blocked calls to a recorded message.

An International Blocking Service charge as set forth in 16.4.4(J) following is applicable for each new or existing exchange line or trunk or Feature Group A Switched Access line to which International Blocking Service is added or removed. This charge does not apply when blocking is removed from an exchange line or trunk or Feature Group A Switched Access line at the same time that it is disconnected.

A Miscellaneous Service Order Charge as set forth in 16.4.1(D) will apply to orders adding or removing International Blocking Service that are placed subsequent to the initial installation of the associated exchange line(s) or trunk(s) or Feature Group A Switched Access line(s). This charge does not apply when blocking is removed from an exchange line or trunk or Feature Group A Switched Access line at the same time that it is disconnected.

\* Tariff page reissued pursuant to Special Permission No. 93-1265. First Revised Page 13-19 inadvertently reflected an effective date of February 11, 1993 instead of February 11, 1994.

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.7 Blocking Service (Cont'd)

(S)

13.7.2 Pay-Per-Call Toll Denial Service

The Telephone Company will provide Pay-Per-Call Toll Denial Service to customers who obtain local exchange service from the Telephone Company under its local exchange tariff and to customers who obtain Feature Group A Switched Access service under this tariff. This service is only provided at appropriately equipped Telephone Company end offices. Those offices providing Pay-Per-Call Toll Denial Service are identified in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., TARIFF F.C.C. NO. 4.

On each line or trunk for which Pay-Per-Call Toll Denial Service is ordered, the Telephone Company will block all direct dialed calls placed to a 900 number. When capable, the Telephone Company will route the blocked calls to a recorded message. No charges will be assessed for Pay-Per-Call Toll Denial Service.

A Pay-Per-Call Toll Service Restoral charge will apply per line, trunk, or Feature Group A Switched Access service to which Pay-Per-Call Restoral is requested. Requests by subscribers to remove Pay-Per-Call Toll Denial Service must be in writing. This charge does not apply when blocking is removed from an exchange line or trunk or Feature Group A Switched Access line at the same time that it is disconnected.

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\*Tariff page reissued pursuant to Special Permission No. 93-1265. Original Page 13-20 inadvertently reflected an effective date of February 11, 1993 instead of February 11, 1994.

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ACCESS SERVICE

13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)

13.7 Blocking Service (Cont'd)

13.7.3 Billed Number Screening

The Telephone Company will permit the operator to determine the billing restrictions on the line to which a call is being billed (i.e., collect and third party billed calls) to customers who obtain local exchange service from the Telephone Company under its local exchange tariff and to customers who obtain Feature Group A Switched Access service under this tariff.

Billed Number Screening is provisioned by the Telephone Company LIDB Service Provider, and is available to any customer requesting this service.

A Billed Number Screening removal charge will apply per line, trunk or Feature Group A Switched Access service for which Billed Number Screening removal is requested. This charge does not apply when screening is removed from an exchange line, trunk, or Feature Group A Switched Access line at the same time that it is disconnected.

13.8 Coin Signaling Transmission Additive

The Telephone Company will provide Coin signaling Transmission Additive to Payphone Service Providers (PSPs) who order local exchange service lines for the provision of pay telephone service and where the pay telephone equipment connected to the local exchange service lines requires central office coin supervision capability. The local exchange service lines used for the provision of pay telephone service are obtained from and subject to the terms and conditions under the Telephone Company' s local tariff.

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(N) Tariff page revised pursuant to Special Permission No. 97-43 of the Federal Communications Commission

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13. Additional Engineering, Additional Labor and Miscellaneous Services (Cont'd)13.8 Coin Signaling Transmission Additive (Cont' d)

Coin Signaling Transmission Additive provides the capability of central office line equipment to pass signals and/or tones from a local exchange service line to a trunk terminating at the PSP' s operator service provider. These signals enable an operator service provider to recognize coin deposits and return coins to the pay telephone user. Coin Signaling Transmission Additive also permits a suitability equipped operator service provider to automatically ring back the originating local exchange service line upon completion of a call.

A Coin Signaling Transmission Additive charge as set forth in 16.4.4(O) following is assessed monthly to the PSP for each local exchange service line for which Coin Signaling Transmission Additive is provided.

In addition, minute of use charges apply per originating minute, per Basic Coin Transmission Dial Tone Line.

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General Manager  
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Effective: April 15, 1997

## ACCESS SERVICE

## 13.9 Local Number Portability

(N)

## 13.9.1 Local Number Portability Query Service

## General Description

Local Number Portability ("LNP") provides users of telecommunication services the ability to retain their existing Telephone Number ("TN") when switching from one Local Service Provider ("LSP") to another provided that the end user customer remains within the same rate center. LNP provides for the completion of calls to ported telephone numbers regardless of where the call originates.

Local Number Portability Query Service ("LNPQS") is an Advanced Intelligent Network ("AIN") capability which utilizes the Common Channel Signaling ("CCS") Network to query a LNP data base to secure network routing instructions before completion of a call. At a minimum, a LNP database contains Location Routing Number ("LRN") information about a telecommunication service user's choice of LSP by NXX code. The LRN is unique to the LSP's serving switch that will complete the call.

When more than one network is involved in completing a call, the network prior to the termination (i.e., the N-1 Network) is responsible for querying a LNP database to secure the appropriate LRN to route the call.

When the provider of the N-1 network forwards a non-queried call to a Company end office switch and the TN is a ported number, the Company's switch will suspend the call processing, formulate and launch a query to the Company's LNP data base to secure the LRN of the ported number. When the necessary LRN has been returned from the LNP data base to the Company switch originating the query, call processing is resumed and the call is either processed in the Company's network or routed to the correct LSP's network for completion to the called party. The Company will assess the provider of the N-1 Network a LNPQS Default End Office Query Charge as set forth in 16.4.4, following.

LNPQS is provided where facilities permit. LNPQS is being activated in the Company's study area as specified in the National Exchange Carrier Association, Inc. ("NECA"), Tariff F.C.C. No. 4.

(N)

## ACCESS SERVICE

## 13.9 Local Number Portability (N)

## 13.9.1 Local Number Portability Query Service

## LNPQS Manner of Provisioning

As an option, the customer may prearrange to query the Company' s LNP database by ordering CCSNC Service as set forth in 6.8.3, preceding. CCSNC rates and charges apply in addition to the LNP Data Base Query Charge as set forth in 16.2.2, following. Customers not ordering CCSNC may forward a non-queried call to a Company end office as a default call. When the customer forwards a non-queried call, the Company will use its network to access the LNP database on behalf of the customer.

LNPQS uses the Location Routing Number (" LRN" ) architecture. The LRN associates an NPA-NXX-XXX number with each central office switch that services ported numbers. All switching types used by the Company will utilize LRN functionality using AIN capability. The LRN functionality is limited to circuit switched calls and excludes High Volume Call-in network NXX codes, 500, 700, 8XX, and 900 dialed service codes, until industry standards are defined.

When telecommunication service customers change from one LSP to another and retain the same TN, the recipient LSP (recipient switch) is responsible for providing complete LRN information to the Regional Service Management System/Number Portability Administration Center (RSMS/NPCA). This information will include the porting TN, the LRN of the recipient switch and Destination Point Codes for CLASS and LIDB Transaction Capability Application Part (TCAP) messages. The RSMS/NPAC will download the information to all LNP databases based on User Agreements between the RSMS/NPAC and LNP Service Providers.

(N)

## ACCESS SERVICE

## 13.9 Local Number Portability

## 13.9.1 Local Number Portability Query Service

## Limitations

LNPQS is used on a call-by-call basis only for routing calls to number portable NXX codes and cannot be used for purposes other than those functions described herein. Information residing in the Company's LNP database is proprietary and protected from unauthorized access. Customers may not store any LNP data base information in their own database or elsewhere for any reason.

The following are excluded from number portability until industry standards are defined; High Volume Call-in network NXX codes, 911, 411, service codes 500, 566, 700, 8XX, 900, 936, and 992, across an NPA boundary, outside of the Telephone Company's serving area, cellular or mobile numbers, numbers used for mass calling events, public coin and Centrex (Centrex will be reviewed on an ICB basis).

## Network Management

The Company will administer its network to ensure the provision of acceptable service provision levels to all telecommunications users of the Company's network services.

The Company maintains the right to apply automated or manual protective controls to its network on a competitively neutral basis. These protective controls result from occurrences such as failure or overload of its facilities, natural disasters, mass calling, or national security demands.

## Rate Regulations

In the case of unqueried calls delivered to an end office, the Company will first attempt to complete these calls in the end office. LNPQS customers that deliver a non-queried call to the Company's end offices, that is a vacant code in that end office, are billed a LNPQS Default Query Charge. The LNPQS Default Query Charge recovers the cost of the Company's transport from an end office to the STP, the query of the LNP data base and the return of the query information to the originating end office switch. A LNPQS Default Query Charge is assessed on a per-query, per-end office basis regardless of the outcome of the query. LNPQS queries are aggregated and billed to the customer on a monthly basis. LNPQS Default Query Charges are set forth in 16.4.4, following. (C)

## ACCESS SERVICE

## 13.9 Local Number Portability

## 13.9.1 Local Number Portability Query Service (Continued)

## Rate Regulations (Cont'd)

Customers that query the LNP Data Base by utilizing Common Channel Signaling Access are billed a LNP Data Base Query Charge, as set forth in 16.2.2, following, and are not assessed the default query charge.

## 13.9.2 Local Number Portability End User Charge

## General Description

The Company will assess a monthly number-portability charge to end users served by LNP-capable switches. LNP provides users of telecommunication services the ability to retain their existing telephone number ("TN") when switching from one Local Service Provider ("LSP") to another provided that the end user customer remains within the same rate center. LNP provides for the completion of calls to ported telephone numbers regardless of where the call originates.

The charge applies to Company's end users served by LNP-capable switches effective with the tariff and for a period no longer than five years, beginning July 1, 2000, and ending June 30, 2005. The Company will assess the charge in each end office. (N)

The monthly charge is assessed, as determined by the Company, to all end users of local exchange service, end users of Feature Group A or Circuit Switched Lineside Service, resellers, and customers that have ordered unbundled switch ports. The Basic Charge is assessed on a per line or per port basis except as set forth following.

- When a customer is provided Integrated Services Digital Network Primary Rate Interface ("ISDN-PRI") that permits the provision of up to 24 voice-grade equivalent channels over a single T-1 facility, the end user charge for ISDN-PRI is assessed per T-1 facility.
- When a customer is provided PBX Service, the end user charge is assessed per PBX trunk.
- The charge is not assessed to Lifeline Customers.
- The charge is not assessed to local loops purchased as unbundled network elements.

The LNP rates are set forth in 16.4.4, following.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications

14.1 contains Switched Access Service Options (which are comprised of Interface Groups, Supervisory Signaling, Entry Switch Receive Level and Local Transport Termination) and Transmission Specifications. 14.2 describes Special Access Service Network Channel (NC) codes and Network Channel Interface (NCI) codes. 14.3 contains Interface Group, Premises Interface Code and Standard Transmission Specifications applicable to Directory Access Service.

14.1 Switched Access Service

Ten Interface Groups are provided for terminating the Local Transport Entrance Facility at the customer's designated premises. Each Interface Group provides a specified premises interface (e.g., two-wire, four-wire, DS1, etc.). Where transmission facilities permit, and at the option of the customer, the Entrance Facility may be provided with optional features as set forth in 14.1.1 following. \*(S)  
\*(S)  
\*(S)

As a result of the customer's access order and the type of Telephone Company transport facilities serving the customer designated premises, the need for signaling conversions or two-wire to four-wire conversions, or the need to terminate digital or high frequency facilities in channel bank equipment may require that Telephone Company equipment be placed at the customer designated premises. For example, if a voice frequency interface is ordered by the customer and the Telephone Company facilities serving the customer designated premises are digital, then Telephone Company channel bank equipment must be placed at the customer designated premises in order to provide the voice frequency interface ordered by the customer.

14.1.1 Local Transport Interface Groups

Interface Groups are combinations of technical parameters which describe the Telephone Company handoff at the point of termination at the customer designated premises. The technical specifications concerning the available interface groups are set forth in (A) through (D) following.

\* Tariff page reissued pursuant to Special Permission No. 93-992 to defer effective date to offer Local Transport Service until December 30, 1993.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.1 Local Transport Interface Groups (Cont'd)

Interface Group 1 is provided with Type C Transmission Specifications, as set forth in 14.1.2(C) following, and Interface Groups 2 through 10 are provided with Type A or B Transmission Specifications, as set forth respectively in 14.1.2(D) and (E) following, depending on the Feature Group and whether the Access Service is routed directly or through an access tandem. All Interface Groups are provided with Data Transmission Parameters.

Only certain premises interfaces are available at the customer designated premises. The premises interfaces associated with the Interface Groups may vary among Feature Groups.

(A) Interface Group 1

Interface Group 1, except as set forth in the following, provides two-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

Interface Group 1 is not provided in association with and FGD when the first point of switching is an access tandem. In addition, Interface Group 1 is not provided in association with FGB or FGD when the first point of switching provides only four-wire terminations.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.1 Local Transport Interface Groups (Cont'd)(A) Interface Group 1 (Cont'd)

The transmission path between the point of termination at the customer designated premises and the customer's serving wire center may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of 300 to 3000 Hz. \*(S)

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(B) Interface Group 2

Interface Group 2 provides four-wire voice frequency transmission at the point of termination at the customer designated premises. The interface is capable of transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

\* Tariff page reissued pursuant to Special Permission No. 93-992 to defer effective date to offer Local Transport Service until December 30, 1993.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.1 Local Transport Interface Groups (Cont'd)(B) Interface Group 2 (Cont'd)

The transmission path between the point of termination at the customer designated premises and the customer's serving wire center may be comprised of any form or configuration of plant capable of and typically used in the telecommunications industry for the transmission of voice and associated telephone signals within the frequency bandwidth of approximately 300 to 3000 Hz.

\*(S)

\*(S)

The interface is provided with loop supervisory signaling. When the interface is associated with FGA, such signaling will be loop start or ground start signaling. When the interface is associated with FGB or FGD, such signaling, except for two-way calling which is E&M signaling, will be reverse battery signaling.

(C) Interface Groups 3 through 5

Interface Groups 3 through 5 provide analog transmission at the point of termination at the customer designated premises. The various interfaces are capable of transmitting electrical signals at the frequencies illustrated following, with the capability to channelize voice frequency transmission paths.

\* Tariff page reissued pursuant to Special Permission No. 93-992 to defer effective date to offer Local Transport Service until December 30, 1993.

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.1 Switched Access Service (Cont'd)

14.1.1 Local Transport Interface Groups (Cont'd)

(C) Interface Groups 3 through 5 (Cont'd)

Certain frequencies within the bandwidth of the Interface Groups are reserved for Telephone Company use, e.g., pilot and carrier group alarm tones. Before the first point of switching, the Telephone Company will provide multiplex equipment to derive the transmission paths of frequency bandwidth of approximately 300 to 3000 Hz.

The interfaces are provided with individual transmission path SF supervisory signaling.

<u>Interface Group Identification No.</u>	<u>Transmission Frequency Bandwidth</u>	<u>Analog Hierarchy Level</u>	<u>Maximum No. of Channelized Voice Freq. Trans. Paths</u>
3	60 - 108 kHz	Group	12
4	312 - 552 kHz	Supergroup	60
5	564 - 3084 kHz	Mastergroup	600

(D) Interface Groups 6 through 10

Interface Groups 6 through 10 provide digital transmission at the point of termination at the customer designated premises. The various interfaces are capable of transmitting electrical signals at the nominal bit rates illustrated following, with the capability to channelize voice frequency transmission paths.

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.1 Switched Access Service (Cont'd)

14.1.1 Local Transport Interface Groups (Cont'd)

(D) Interface Groups 6 through 10 (Cont'd)

Before the first point of switching, when analog switching utilizing analog terminations is provided, the Telephone Company will provide multiplex and channel bank equipment to derive transmission paths of a frequency bandwidth of approximately 300 to 3000 Hz. When digital switching or analog switching with digital carrier terminations is provided, the Telephone Company will provide a DS1 signal(s) in D3/D4 format.

\*(S)

The interfaces are provided with individual transmission path bit stream supervisory signaling.

<u>Interface Group Identification No.</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>	<u>Max. No. of Channelized Voice Freq. Trans. Paths</u>
6	1.544	DS1	24
7	3.152	DS1C	48
8	6.312	DS2	96
9	44.736	DS3	672
10	274.176	DS4	4032

(E) Local Transport Optional Features

Where transmission facilities permit, the Telephone Company will, at the option of the customer, provide the following features in association with Local Transport. An Access Order Charge as specified in 16.4.1(A) following is applicable on a per order basis when nonchargeable optional features are added subsequent to the installation of service.

\* Tariff page reissued pursuant to Special Permission No. 93-992 to defer effective date to offer Local Transport Service until December 30, 1993.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.1 Local Transport Interface Groups (Cont'd)(E) Local Transport Optional Features (Cont'd)- Customer Specified Entry Switch Receive Level

Customer Specified Entry Switch Receive Level allows the customer to specify the receive transmission level at the first point of switching. The range of transmission levels which may be specified is described in Technical Reference TR-NPL-000334. This feature is available with Interface Groups 2 through 10 for FGA and FGB.

- Customer Specification of Local Transport Termination

Customer Specification of Local Transport Termination allows the customer to specify, for Feature Group B routed directly to an end office or access tandem, a four-wire termination of the Local Transport at the first point of switching in lieu of a Telephone Company selected two-wire termination. This option is available only when the Feature Group B arrangement is provided with Type B Transmission Specifications.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.1 Local Transport Interface Groups (Cont'd)(E) Local Transport Optional Features (Cont'd)- Supervisory Signaling

Supervisory Signaling allows the customer to order an optional supervisory signaling arrangement for each transmission path provided where the transmission parameters permit, and where signaling conversion is required by the customer to meet its signaling capability.

The Interface Groups, as described in (A) through (D) preceding, represent industry standard arrangements. Where transmission parameters permit, the customer may select the following optional signaling arrangements in place of the signaling arrangements standardly associated with the Interface Groups.

## - For Interface Groups 1 and 2 associated with FGB or FGD

DX Supervisory Signaling,  
E&M Type I Supervisory Signaling,  
E&M Type II Supervisory Signaling, or  
E&M Type III Supervisory Signaling

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.1 Local Transport Interface Groups (Cont'd)(E) Local Transport Optional Features (Cont'd)

- For Interface Group 2 associated with FGB or FGD and in addition to the preceding  
SF Supervisory Signaling, or  
Tandem Supervisory Signaling
- For Interface Groups 3 through 5  
Optional Supervisory Signaling Not Available
- For Interface Groups 6 through 10

These Interface Groups may, at the option of the customer, be provided with individual transmission path SF supervisory signaling where such signaling is available in Telephone Company central offices. Generally such signaling is available only where the first point of switching provides an analog (i.e., non digital) interface to the transport termination.

These optional Supervisory Signaling arrangements are not available in combination with the SS7 optional feature as described in 6.8.3 preceding.

Additionally, in (F) following, there is a matrix of available Premises Interface Codes as a function of Interface Group, Telephone Company Switch Supervisory Signaling and Feature Group.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.1 Local Transport Interface Groups (Cont'd)(F) Available Premises Interface Codes

Following is a matrix showing premises interface codes which are available for each Interface Group. Their availability is a function of the Telephone Company switch supervisory signaling and Feature Group. For explanations of these codes, see the Parameter Codes and Options as set forth in 14.2.2(A) following.

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group</u>		
			<u>A</u>	<u>B</u>	<u>D</u>
1	LO	2LS2	X		
	LO	2LS3	X		
	GO	2GS2	X		
	GO	2GS3	X		
	LO, GO	2DX3	X		
	LO, GO	4EA3-E	X		
	LO, GO	4EA3-M	X		
	LO, GO	6EB3-E	X		
	LO, GO	6EB3-M	X		
	RV, EA, EB, EC	2DX3		X	X
	RV, EA, EB, EC	4EA3-E		X	X
	RV, EA, EB, EC	4EA3-M		X	X
	RV, EA, EB, EC	6EB3-E		X	X
	RV, EA, EB, EC	6EB3-M		X	X
	EA, EB, EC	6EC3			X
	RV	2RV3-O		X	X
	RV	2RV3-T		X	X
	SS7	2N02			X

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.1 Local Transport Interface Groups (Cont'd)(F) Available Premises Interface Codes (Cont'd)

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group</u>		
			<u>A</u>	<u>B</u>	<u>D</u>
2	LO, GO	4SF2	X		
	LO, GO	4SF3	X		
	LO	4LS2	X		
	LO	4LS3	X		
	LO	6LS2	X		
	GO	4GS2	X		
	GO	4GS3	X		
	GO	6GS2	X		
	LO, GO	4DX2	X		
	LO, GO	4DX3	X		
	LO, GO	6EA2-E	X		
	LO, GO	6EA2-M	X		
	LO, GO	8EB2-E	X		
	LO, GO	8EB2-M	X		
	LO, GO	6EX2-B	X		
	RV, EA, EB, EC	4SF2		X	X
	RV, EA, EB, EC	4SF3		X	
	RV, EA, EB, EC	4DX2		X	X
	RV, EA, EB, EC	4DX3		X	
	RV, EA, EB, EC	6EA2-E		X	X
	RV, EA, EB, EC	6EA2-M		X	X
	RV, EA, EB, EC	8EB2-E		X	X
	RV, EA, EB, EC	8EB2-M		X	X

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.1 Local Transport Interface Groups (Cont'd)(F) Available Premises Interface Codes (Cont'd)

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group</u>		
			<u>A</u>	<u>B</u>	<u>D</u>
2 (Cont'd)	EA, EB, EC	8EC2-M			X
	RV	4RV2-O		X	X
	RV	4RV2-T		X	X
	RV	4RV3-O		X	
	RV	4RV3-T		X	
	SS7	2N02			X
3	LO, GO	4AH5-B	X		
	RV, EA, EB, EC	4AH5-B		X	X
	SS7	4AH5-B			X
4	LO, GO	4AH6-C	X		
	RV, EA, EB, EC	4AH6-C		X	X
	SS7	4AH6-C			X
5	LO, GO	4AH6-D	X		
	RV, EA, EB, EC	4AH6-D		X	X
	SS7	4AH6-D			X
6	LO, GO	4DS9-15	X		
	LO, GO	4DS9-15L		X	
	RV, EA, EB, EC	4DS9-15		X	X
	RV, EA, EB, EC	4DS9-15L		X	X
	SS7	4DS9-15			X

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.1 Local Transport Interface Groups (Cont'd)(F) Available Premises Interface Codes (Cont'd)

<u>Interface Group</u>	<u>Telephone Company Switch Supervisory Signaling</u>	<u>Premises Interface Code</u>	<u>Feature Group</u>		
			<u>A</u>	<u>B</u>	<u>D</u>
7	LO, GO	4DS9-31	X		
	LO, GO	4DS9-31L		X	
	RV, EA, EB, EC	4DS9-31		X	X
	RV, EA, EB, EC	4DS9-31L		X	X
	SS7	4DS9-31			X
8	LO, GO	4DS0-63	X		
	LO, GO	4DS0-63L		X	
	RV, EA, EB, EC	4DS0-63		X	X
	RV, EA, EB, EC	4DS0-63L		X	X
	SS7	4DS0-63			X
9	LO, GO	4DS6-44	X		
	LO, GO	4DS6-44L		X	
	RV, EA, EB, EC	4DS6-44		X	X
	RV, EA, EB, EC	4DS6-44L		X	X
	SS7	4DS6-44			X
10	LO, GO	4DS6-27	X		
	LO, GO	4DS6-27L		X	
	RV, EA, EB, EC	4DS6-27		X	X
	RV, EA, EB, EC	4DS6-27L		X	X
	SS7	4DS6-27			X

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.2 Standard Transmission Specifications

Descriptions of the transmission specifications available with each Feature Group as a function of the Interface Group selected by the customer, are set forth in (A) through (D) following.

Descriptions of each of these Standard Transmission Specifications and the two Data Transmission Parameters mentioned are set forth respectively in (E) through (G) and 14.1.3(A) and (B) following:

(A) Feature Group A (FGA)

FGA is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the first point of switching. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGA to the first point of switching.

(B) Feature Group B (FGB)

FGB is provided with either Type B or Type C Transmission Specifications. The specifications for the associated parameters are guaranteed to the end office when routed directly or to the first point of switching when routed via an access tandem. Type C Transmission Specifications are provided with Interface Group 1 and Type B is provided with Interface Groups 2 through 10. Type DB Data Transmission Parameters are provided with FGB to the first point of switching.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.2 Standard Transmission Specifications (Cont'd)(C) Feature Group D (FGD)

FGD is provided with either Type A, Type B or Type C Transmission Specifications as follows:

- When routed to the end office either Type B or C is provided.
- When routed to an access tandem only Type A is provided.
- Type A is provided on the transmission path from the access tandem to the end office.

Type C Transmission Specifications are provided with Interface Group 1. Type B Transmission Specifications are provided with Interface Groups 2 through 10, whether routed directly to an end office or to an access tandem.

Type DB Data Transmission Parameters are provided with FGD for the transmission path between the customer designated premises and the end office when directly routed to the end office. Type DA Data Transmission Parameters are provided for the transmission path between the customer designated premises and the access tandem and between the access tandem and the end office when routed via an access tandem.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.2 Standard Transmission Specifications (Cont'd)(D) Type A Transmission Specifications

Type A Transmission Specifications is provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is  $\pm$  2.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion is the 404 to 2804 Hz frequency band relative to the loss at 1004 Hz is -1.0 dB to +3.0 dB.

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise</u>
less than 50	32 dBrnCO
51 to 100	34 dBrnCO
101 to 200	37 dBrnCO
201 to 400	40 dBrnCO
401 to 1000	42 dBrnCO

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.1 Switched Access Service (Cont'd)

14.1.2 Standard Transmission Specifications (Cont'd)

(D) Type A Transmission Specifications (Cont'd)

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone, is less than or equal to 45 dBnCO.

(5) Echo Control

Echo Control, identified as Equal Level Echo Path Loss, and expressed as Echo Return Loss and Singing Return Loss, is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	21 dB	14 dB
POT to End Office		
- Direct	N/A	N/A
- Via Access Tandem	16 dB	11 dB

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.2 Standard Transmission Specifications (Cont'd)(D) Type A Transmission Specifications (Cont'd)(6) Standard Return Loss

Standard Return Loss expressed as Echo Return Loss and Singing Return Loss on two-wire ports of a four-wire point of termination shall be equal or greater than:

<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
5 dB	2.5 dB

(E) Type B Transmission Specifications

Type B Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is  $\pm$  2.5 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +4.0 dB.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.2 Standard Transmission Specifications (Cont'd)(E) Type B Transmission Specifications (Cont'd)(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type B1</u>	<u>Type B2</u>
less than 50	32 dBrnCO	35 dBrnCO
51 to 100	33 dBrnCO	37 dBrnCO
101 to 200	35 dBrnCO	40 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

\* For Feature Group D only Type B2 will be provided. For Feature Groups A and B, Type B1 or B2 will be provided as set forth in Technical Reference TR-NPL-000334.

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.1 Switched Access Service (Cont'd)

14.1.2 Standard Transmission Specifications (Cont'd)

(E) Type B Transmission Specifications (Cont'd)

(5) Echo Control

Echo Control, identified as Impedance Balance for FGA and FGB and Equal Level Echo Path Loss for and FGD, and expressed as Echo Return Loss (ERL) and Singing Return Loss (SRL), is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. The ERL and SRL also differ by Feature Group, type of termination, and type of transmission path. They are greater than or equal to the following:

	Echo <u>Return Loss</u>	Singing <u>Return Loss</u>
POT to Access Tandem		
- Terminated in 4-Wire trunk	21 dB	14 dB
- Terminated in 2-Wire trunk	16dB	11 dB
POT to End Office		
- Direct	16 dB	11 dB
- Via Access Tandem . For FGB access	8 dB	4 dB

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.2 Standard Transmission Specifications (Cont'd)(E) Type B Transmission Specifications (Cont'd)(6) Standard Return Loss

Standard Return Loss, expressed as Echo Return Loss and Singing Return Loss, on two-wire ports of a four-wire point of termination shall be equal to or greater than:

Echo Return LossSinging Return Loss

5 dB

2.5 dB

(F) Type C Transmission Specifications

Type C Transmission Specifications are provided with the following parameters:

(1) Loss Deviation

The maximum Loss Deviation of the 1004 Hz loss relative to the Expected Measured Loss (EML) is  $\pm$  3.0 dB.

(2) Attenuation Distortion

The maximum Attenuation Distortion in the 404 to 2804 Hz frequency band relative to loss at 1004 Hz is -2.0 dB to +5.5 dB.

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.1 Switched Access Service (Cont'd)

14.1.2 Standard Transmission Specifications (Cont'd)

(F) Type C Transmission Specifications (Cont'd)

(3) C-Message Noise

The maximum C-Message Noise for the transmission path at the route miles listed is less than or equal to:

<u>Route Miles</u>	<u>C-Message Noise*</u>	
	<u>Type C1</u>	<u>Type C2</u>
less than 50	32 dBrnCO	38 dBrnCO
51 to 100	33 dBrnCO	39 dBrnCO
101 to 200	35 dBrnCO	41 dBrnCO
201 to 400	37 dBrnCO	43 dBrnCO
401 to 1000	39 dBrnCO	45 dBrnCO

(4) C-Notch Noise

The maximum C-Notch Noise, utilizing a -16 dBm0 holding tone is less than or equal to 47 dBrnCO.

\* For Feature Group D only Type C2 will be provided. For Feature Groups A and B, Type C1 or C2 will be provided as set forth in Technical Reference TR-NPL-000334.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.2 Standard Transmission Specifications (Cont'd)(F) Type C Transmission Specifications (Cont'd)(5) Echo Control

Echo Control, identified as Return Loss and expressed as Echo Return Loss and Singing Return Loss is dependent on the routing, i.e., whether the service is routed directly from the customer's point of termination (POT) to the end office or via an access tandem. It is equal to or greater than the following:

	<u>Echo Return Loss</u>	<u>Singing Return Loss</u>
POT to Access Tandem	13 dB	6 dB
POT to End Office		
- Direct	13 dB	6 dB
- Via Access Tandem (for FGB only)	8 dB	4 dB

14.1.3 Data Transmission Parameters

Two types of Data Transmission Parameters, i.e., Type DA and Type DB, are provided for the Feature Group arrangements. Type DB is provided with Feature Groups A and B and also with Feature Group D when Feature Group D is directly routed to the end office. Type DA is only provided with Feature Group D and only when routed via an access tandem. Following are descriptions of each.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.3 Data Transmission Parameters (Cont'd)(A) Data Transmission Parameters Type DA(1) Signal to C-Notched Noise Ratio

The Signal to C-Notched Noise Ratio is equal to or greater than 33 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

less than 50 route miles	500 microseconds
equal to or greater than 50 route miles	900 microseconds

1004 to 2404 Hz

less than 50 route miles	200 microseconds
equal to or greater than 50 route miles	400 microseconds

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.3 Data Transmission Parameters (Cont'd)(A) Data Transmission Parameters Type DA (Cont'd)(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 65 dBmCO threshold in 15 minutes is no more than 15 counts.

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	33 dB
Third Order (R3)	37 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 5° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.1 Switched Access Service (Cont'd)14.1.3 Data Transmission Parameters (Cont'd)(B) Data Transmission Parameters Type DB(1) Signal to C-Notched Noise Ratio

The signal to C-Notched Noise Ratio is equal to or greater than 30 dB.

(2) Envelope Delay Distortion

The maximum Envelope Delay Distortion for the frequency bands and route miles specified is:

604 to 2804 Hz

less than 50 route miles	800 microseconds
equal to or greater than 50 route miles	1000 microseconds

1004 to 2404 Hz

less than 50 route miles	320 microseconds
equal to or greater than 50 route miles	500 microseconds

(3) Impulse Noise Counts

The Impulse Noise Counts exceeding a 67 dBrnCO threshold in 15 minutes is no more than 15 counts.

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.1 Switched Access Service (Cont'd)

14.1.3 Data Transmission Parameters (Cont'd)

(B) Data Transmission Parameters Type DB (Cont'd)

(4) Intermodulation Distortion

The Second Order (R2) and Third Order (R3) Intermodulation Distortion products are equal to or greater than:

Second Order (R2)	31 dB
Third Order (R3)	34 dB

(5) Phase Jitter

The Phase Jitter over the 4-300 Hz frequency band is less than or equal to 7° peak-to-peak.

(6) Frequency Shift

The maximum Frequency Shift does not exceed -2 to +2 Hz.

14.2 Special Access Service

This section explains and lists the codes that the customer must specify when ordering Special Access Service, Switched Access, Entrance Facilities and Voice Grade and High Capacity Direct Trunked Transport. These codes provide a standardized means to relate the services being ordered to Special Access Service offerings contained in Section 7 preceding.

\*(S)  
 \*(S)

\* Tariff page reissued pursuant to Special Permission No. 93-992 to defer effective date to offer Local Transport Service until December 30, 1993.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)

When ordering, the type of Special Access Service or Switched Access Entrance Facility or Direct Trunked Transport is described by two code sets, the Network Channel (NC) code and the Network Channel Interface (NCI) codes.

\*(S)

\*(S)

The Network Channel (NC) code consists of two elements. Element one is a Channel Service Code (character positions 1 and 2) that describes the channel service type in an abbreviated form. Element two is an Optional Feature Code (character positions 3 and 4) that identifies option codes available for each channel service code, such as C-conditioning or Improved Return Loss.

The Network Channel Interface (NCI) is used to identify interface specifications associated with a particular channel. This code describes the total wires, protocol, impedance, protocol options and transmission level point(s) reflecting physical and electrical characteristics between the Telephone Company and the customer.

On the following 3 pages are examples which explain the specific characters of the codes and which reference matrices and charts used in developing the codes. Included in the matrices are Service Designator (SD) codes which are used to identify variations of service within service types (e.g., TG1 = Telegraph). The SD and NC codes are displayed as components of the matrices designated as Technical Specifications packages in (A) through (G) following. Through the use of these matrices, SD codes may be converted to NC codes for service ordering purposes.

A chart is also provided in 14.2.2(A) following which contains information necessary to develop NCI codes.

\* Tariff page reissued pursuant to Special Permission No. 93-992 to defer effective date to offer Local Transport Service until December 30, 1993.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)

Comprehensive lists of allowed Network Channel (NC) and Network Channel Interface (NCI) codes are contained in Special Report SR-ISD-000307. However, not all services contained in this Special Report may be offered by the Telephone Company at this time.

Lastly, 14.2.2(C) following provides a list of compatible Network Channel Interfaces inasmuch as the Network Channel Interfaces associated with a given service need not always be the same, but all must be compatible.

Example No. 1: If the customer wishes to order a 4-wire voice grade circuit with 600 Ohms impedance, capable of data transmission, and with improved return loss, the customer might specify the following:

<u>NC</u> LG-R	<u>NCI</u> 04DB2	<u>SECNCI</u> 04DA2-S
-------------------	---------------------	--------------------------

## NC Code:

LG = Voice Grade Channel Service, VG6  
-R = Improved Return Loss

## NCI Code:

04 = Number of physical wires at CDP  
DB = Data stream in VF frequency band at the customer designated main terminal location  
2 = 600 Ohms impedance

## SECNCI (Secondary NCI Code):

04 = Number of physical wires at CDP  
DA = Data stream in VG frequency at the customer designated secondary terminal location  
2 = 600 Ohms impedance  
S = Sealing current option for 4-wire transmission

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)

In the preceding example the NCI (Network Channel Interface) code is the interface requested at the customer's POT (Point of Termination) and the SECNCI (Secondary Network Channel Interface) code represents the interface at the end office serving the End User.

Example No. 2: If the customer wishes to order a FX circuit to a station, with 600 Ohms impedance, loop start signaling, which is 4-wire at the CDP and 2-wire at the end-user, the customer might specify:

<u>NC</u> LC--	<u>NCI</u> 04LO2	<u>SECNCI</u> 02LS2
-------------------	---------------------	------------------------

## NC Code:

LC = Voice Grade Channel Service, VG2  
-- = No Optional Features

## NCI Code:

04 = Number of physical wires at CDP  
LO = Loop start, loop signaling - open end  
2 = 600 Ohms impedance

## SECNCI (Secondary NCI Code):

02 = Number of physical wires at CDP  
LS = Loop start signaling - closed end  
2 = 600 Ohms impedance

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)

Example No. 3: If the customer wishes to order a 1.544 Mbps Hi-cap facility with no channel options such as CO multiplexing, the customer might specify the following:

<u>NC</u>	<u>NCI</u>	<u>SECNCI</u>
HC--	04DS9-15	04DS9-15

## NC Code:

HC = High Capacity Channel Service, HC1  
-- = No Optional Features

## NCI, SECNCI Code:

04 = Number of physical wires at CDP  
DS = Digital hierarchy interface  
9 = 100 Ohms impedance  
15 = 1.544 Mbps (DS1) format

The preceding three examples use information contained in Special Report SR-ISD-000307.

14.2.1 Network Channel (NC) Codes

In order to determine the NC code appropriate for the service to be ordered, the type of Special Access Service the customer wishes must be identified. This identification is accomplished by a Service Designator (SD) code. The broad categories of Service Designator codes (e.g., VG, etc.) are set forth in Section 7. preceding. Variations within service type (e.g., VG1, etc.) are described in the various Technical Publications cited following.

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.1 Network Channel (NC) Codes (Cont'd)

Having determined the specific service type to be ordered and its SD code, and having used the appropriate Technical Publication, the customer should match the SD code to the NC code using the following matrices. Once the NC code has been determined the Network Channel Interface (NCI) code may be developed using the information set forth in 14.2.2 following and the guidelines concerning specific parameters available for each service type as set forth in the specified Technical Publication.

(A) Technical Specifications Packages Voice Grade Service

SD Code NC Code	Package VG-													
	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>W</u>
	<u>LQ</u>	<u>LB</u>	<u>LC</u>	<u>LD</u>	<u>LE</u>	<u>LF</u>	<u>LG</u>	<u>LH</u>	<u>LJ</u>	<u>LK</u>	<u>LN</u>	<u>LP</u>	<u>LR</u>	<u>SE</u>
<u>Parameter</u>														
Attenuation														
Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X	
C-Message Noise		X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control		X	X	X	X		X		X	X			X	X
Envelope Delay														
Distortion	X						X	X	X	X	X	X	X	
Frequency Shift		X						X	X	X	X	X	X	X
Impulse Noise		X					X	X	X	X	X	X	X	X
Intermodulation														
Distortion	X						X	X	X	X	X		X	
Loss Deviation		X	X	X	X	X	X	X	X	X	X	X	X	X

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

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.1 Network Channel (NC) Codes (Cont'd)

(A) Technical Specifications Packages Voice Grade Service  
(Cont'd)

SD Code NC Code	Package VG-													
	<u>C*</u> <u>LQ</u>	<u>1</u> <u>LB</u>	<u>2</u> <u>LC</u>	<u>3</u> <u>LD</u>	<u>4</u> <u>LE</u>	<u>5</u> <u>LF</u>	<u>6</u> <u>LG</u>	<u>7</u> <u>LH</u>	<u>8</u> <u>LJ</u>	<u>9</u> <u>LK</u>	<u>10</u> <u>LN</u>	<u>11</u> <u>LP</u>	<u>12</u> <u>LR</u>	<u>W</u> <u>SE</u>
Phase Hits, Gain Hits, & Dropouts	X													
Phase Jitter	X						X	X	X	X	X	X		X
Signal-to-C Message Noise					X									
Signal-to-C Notch Noise	X					X	X	X	X	X	X	X	X	X

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

SD Code NC Code	Package VG-												
	<u>C*</u> <u>LQ</u>	<u>1</u> <u>LB</u>	<u>2</u> <u>LC</u>	<u>3</u> <u>LD</u>	<u>4</u> <u>LE</u>	<u>5</u> <u>LF</u>	<u>6</u> <u>LG</u>	<u>7</u> <u>LH</u>	<u>8</u> <u>LJ</u>	<u>9</u> <u>LK</u>	<u>10</u> <u>LN</u>	<u>11</u> <u>LP</u>	<u>12</u> <u>LR</u>

Optional Features and Functions

Central Office Bridging Capability	X	X		X	X					X	X	X	X	
------------------------------------	---	---	--	---	---	--	--	--	--	---	---	---	---	--

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

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.1 Network Channel (NC) Codes (Cont'd)

(A) Technical Specifications Packages Voice Grade Service  
(Cont'd)

SD Code NC Code	Package VG-													
	<u>C*</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>W</u>
	<u>LQ</u>	<u>LB</u>	<u>LC</u>	<u>LD</u>	<u>LE</u>	<u>LF</u>	<u>LG</u>	<u>LH</u>	<u>LJ</u>	<u>LK</u>	<u>LN</u>	<u>LP</u>	<u>LR</u>	<u>SE</u>
<u>Optional Features and Functions</u> (Cont'd)														
Conditioning:														
. C-Type	X					X	X	X	X	X	X			
. Data Capability	X						X	X			X			
Improved Return Loss for Effective Four-Wire Transmission	X	X	X	X	X	X	X	X	X	X	X	X	X	X
For Effective Two-Wire Transmission	X		X	X				X						
Improved Two-Wire Voice Transmission														X
Signaling Capability	X	X	X	X				X	X	X				

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

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.1 Network Channel (NC) Codes (Cont'd)

(B) Technical Specifications Packages Program Audio Service

SD Code NC Code	Package				
	<u>APC*</u> <u>PQ</u>	<u>AP1</u> <u>PE</u>	<u>AP2</u> <u>PF</u>	<u>AP3</u> <u>PJ</u>	<u>AP4</u> <u>PK</u>
<u>Parameter</u>					
Actual Measured Loss	X	X	X	X	X
Amplitude Tracking		X			
Crosstalk	X	X	X	X	X
Distortion Tracking	X				
Gain/Frequency Distortion X	X	X	X	X	
Group Delay	X				
Noise	X	X	X	X	X
Phrase Tracking	X				
Short-Term Gain Stability	X				
Short-Term Loss	X				
Total Distortion	X	X	X	X	X
<u>Optional Features and Functions</u>					
Central Office Bridging Capability	X	X	X	X	X

The technical specifications are described in Technical Reference TR-NPL-000337 and associated Addendum.

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

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)14.2.1 Network Channel (NC) Codes (Cont'd)(C) Technical Specifications Packages Video Service (C)1. DS1 Video Teleconferencing - Duplex

This service provisions a full duplex (transmit and receive) video teleconferencing link over DS1/T1 facilities. The codec for this service operates at line rate of 64 Kbps to E1 (2.048 Mbps).

Customer premise site A - video and audio (transmit and receive) signal from a standard (H.261) video teleconferencing unit is coupled via coax cable to multiple rate (nx64 Kbps) video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Standard repeated or repeaterless T1 facilities are used between central offices and customer premises to provide video signal transport. Metallic or fiber optic span line equipment can be used to transport the video signal between central offices.

Customer premise site B - same equipment as site A.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)14.2.1 Network Channel (NC) Codes (Cont'd)(C) Technical Specifications Packages Video Service  
(Cont'd) (C)2. DS1 Video Teleconferencing - Simplex

This service provisions a simplex (transmit only) video teleconferencing link over DS1/T1 facilities. The codec for this service operates at line rates of 64 Kbps to E1 (2.048 Mbps).

Customer premise site A - video and audio (transmit only) signal from a standard (H.261) video teleconferencing unit is coupled via coax cable to a multiple rate (nx64 Kbps) video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Same equipment as Duplex facilities above.

Customer premise site B - video and audio (receive only) signal to a standard (H.261) video teleconferencing unit is coupled via coax cable to a multiple rate (nx64 Kbps) video codec unit (drop side). The video codec (line side) is coupled via coax to DSU/CSU which terminates the line provided on local central office facilities.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)14.2.1 Network Channel (NC) Codes (Cont'd)(C) Technical Specifications Packages Video Service  
(Cont'd) (C)3. DS1 Video Distribution - Simplex

This service provisions a simplex (transmit only) video distribution link (video jukebox, local hockey or basketball game etc.) over DS1/T1 facilities. The codec for this service operates at a line rate of T1 (1.544 Mbps).

Customer premise site A - video and audio (transmit only) signal from a standard NTSC video source is coupled via coax cable to a 1.544 Mbps video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Central office facilities - Same as Duplex facilities above.

Customer premise Site B - video and audio (receive only) signal to a standard NTSC video receiving unit is coupled via coax cable to a 1.544 Mbps video codec unit (drop side). The video codec (line side) is coupled via coax to a DSU/CSU which terminates the T1 line provided on local central office facilities.

Rates and charges for Special Access Video Service are set forth in 16.3.4 following. (C)

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.1 Network Channel (NC) Codes (Cont'd)

(D) Technical Specifications Packages Digital Data Service

	<u>Package</u>			
	<u>D1</u>	<u>D2</u>	<u>D3</u>	<u>D4</u>
SD Code	<u>XA</u>	<u>XB</u>	<u>XG</u>	<u>XH</u>
NC Code				
<u>Parameter</u>				
Error-Free Seconds	X	X	X	X
<u>Optional Features and Functions</u>				
Central Office Bridging Capability	X	X	X	X

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

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

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.1 Network Channel (NC) Codes (Cont'd)

(E) Technical Specifications Packages High Capacity Service

SD Code NC Code	Package					
	<u>HC0</u> <u>HS</u>	<u>HC1</u> <u>HC</u>	<u>HC1C</u> <u>HD</u>	<u>HC2</u> <u>HE</u>	<u>HC3</u> <u>HF</u>	<u>HC4</u> <u>HG</u>

Parameters

Error-Free Seconds X

Optional Features  
and Functions

Automatic Loop Transfer X

Central Office Multiplexing:

DS4 to DS1						X
DS3 to DS1					X	
DS2 to DS1				X		
DS1C to DS1			X			
DS1 to Voice	X					
DS1 to DS0	X					
DS0 to Substrate*X						

Clear Channel Capability X

(N)

A channel with technical specifications package HC1 will be capable of an error-free second performance of 98.75% over a continuous 24-hour period as measured at the 1.544 Mbps rate through a CSU equivalent which is designed, manufactured, and maintained to conform with the specifications contained in Technical Reference PUB 62411.

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

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes

The electrical interface with the Telephone Company for Special Access Services, is defined by an interface code. There are interface codes for both the customer designated premises and the point of termination. Three examples of NCI codes are found in 14.2 preceding.

(A) Parameter Codes and Options

Parameter

<u>Code</u>	<u>Option</u>	<u>Definition</u>
AB -		accepts 20 Hz ringing signal at customer's point of termination
AC -		accepts 20 Hz ringing signal at customer's end user's point of termination
AH -		analog high capacity interface
- B		60 kHz to 108 kHz (12 channels)
- C		312 kHz to 552 kHz (60 channels)
- D		564 kHz to 3084 kHz (600 channels)
CT -		Centrex Tie Trunk Termination
CS -		digital hierarchy interface at Digital Cross Connect System (DCS)
- 15		1.544 Mbps (DS1) ANSI Extended Superframe (ESF) Format and B8ZS Clear channel Capability
- 15		1.544 Mbps (DS1) Superframe (SF) format
- 15B		1.544 Mbps (DS1) Superframe (SF) format and B8ZS Clear Channel Capability (N)
- 15K		1.544 Mbps (DS1) Extended Superframe (ESF)
DA -		data stream in VF frequency band at customer's end user's point of termination

(N)  
|

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)14.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and Options (Cont'd)Parameter

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DB -		data stream in VF frequency band at customer's point of termination
-	10	VF for TG1 and TG2
-	43	VF for 43 Telegraph Carrier type signals, TG1 and TG2
DC -		direct current or voltage
-	1	monitoring interface with series RC combination (McCulloch format)
-	2	Telephone Company energized alarm channel
-	3	Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)
DD -		DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE -		DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination
DS -		digital hierarchy interface
-	15	1.544 Mbps (DS1) format per PUB 62411 plus D4
-	15E	8-bit PCM encoded in one 64 kbps of the DS1 signal

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)14.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and Options (Cont'd)Parameter

<u>Code</u>	<u>Option</u>	<u>Definition</u>	
DS			
-	15F	8-bit PCM encoded in two 64 kbps of the DS1 signal	
-	15G	8-bit PCM encoded in three 64 kbps of the DS1 signal	
-	15H	14/11-bit PCM encoded in six 64 kbps of the DS1 signal	
-	15J	1.544 Mbps format per PUB 62411	
-	15K	1.544 Mbps format per PUB 62411 plus extended framing format	
-	15L	1.544 Mbps (DS1) with SF signaling	
-	27	274.176 Mbps (DS4)	
-	27L	274.176 Mbps (DS4) with SF signaling	
-	31	3.152 Mbps (DS1C)	
-	31L	3.152 Mbps (DS1C) with SF signaling	
-	44	44.736 Mbps (DS3)	
-	44L	44.736 Mbps (DS3) with SF signaling	
-	63	6.312 Mbps (DS2)	
-	63L	6.312 Mbps (DS2) with SF signaling	
DU - digital access interface			
-	19	19.2 Kbps	(N)
-	24	2.4 Kbps	
-	48	4.8 Kbps	
-	56	56.0 Kbps	
-	64	64/0 Kbps	(N)
-	96	9.6 Kbps	
-	A	1.544 Mbps format per PUB 62411	
-	B	1.544 Mbps format per PUB 62411 plus D4	
-	C	1.544 Mbps format per PUB 62411 plus extended framing format	

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)14.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and Options (Cont'd)Parameter

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DX -		duplex signaling interface at customer's point of termination
DY -		duplex signaling interface at customer's end user's point of termination
EA -	E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EA -	M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EB -	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.
EB -	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.
EC -		Type III E&M signaling at customer POT
EX -	A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions.
EX -	B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)14.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and Options (Cont'd)Parameter

<u>Code</u>	<u>Option</u>	<u>Definition</u>
GO -		ground start loop signaling - open end function by customer or customer's end user
GS -		ground start loop signaling - closed end function by customer or customer's end user
IA -		E.I.A. (25 pin RS-232)
LA -		end user loop start loop signaling - Type A OPS registered port open end
LB -		end user loop start loop signaling - Type B OPS registered port open end
LC -		end user loop start loop signaling - Type C OPS registered port open end
LO -		loop start loop signaling - open end function by customer or customer's end user
LR -		20 Hz automatic ringdown interface at customer with Telephone Company provided PLAR
LS -		loop start loop signaling - closed end function by customer or customer's end user
NO -		no signaling interface, transmission only
PG -		program transmission - no dc signaling
	- 1	nominal frequency from 50 to 15000 Hz
	- 3	nominal frequency from 200 to 3500 Hz
	- 5	nominal frequency from 100 to 5000 Hz
	- 8	nominal frequency from 50 to 8000 Hz

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)14.2.2 Network Channel Interface (NCI) Codes (Cont'd)(A) Parameter Codes and Options (Cont'd)Parameter

<u>Code</u>	<u>Option</u>	<u>Definition</u>
PR -		protective relaying*
RV -	0	reverse battery signaling, one way operation, originate by customer
	T	reverse battery signaling, one way operation, terminate function by customer or customer's end user
SF -		single frequency signaling with VF band at either customer POT or customer's end user POT
TF -		telephotograph interface
TT -		telegraph/teletypewriter interface at either customer POT or customer's end user POT
	- 2	20.0 milliamperes
	- 3	3.0 milliamperes
	- 6	62.5 milliamperes

\* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)14.2.2 Network Channel Interface (NCI) Codes (Cont'd)(B) Impedance

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

<u>Value (ohms)</u>	<u>Code(s)</u>
110	0
150	1
600	2
900	3+
135	5
75	6
124	7
Variable	8
100	9

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

- + For those interface codes with a 4-wire transmission path at the customer designated POT, rather than a standard 900 ohm impedance the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

(C) Compatible Network Channel Interfaces

The following tables show the Network Channel Interface codes (NCIs) which are compatible:

(1) Voice Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2AB2	2AC2	2DB2	2DA2	2LR2	2LR2
2AB3	2AC2	2DB3	2DA2	2LR3	2LR2
2CT3	2DY2	2DX3	2LA2	2LS	2GS
	4DS8		2LB2		2LS
	4DX2		2LC2		4GS
	4DX3		2LO3		4LS
	4DY2		2LS2		
	4EA2-E	2LS3	2LS2	2LA2	
	4EA2-M				2LB2
	4SF2	2GO2	2GS2		2LC2

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

| <u>Compatible CIs</u> |
|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| 4SF3                  | 2GS3                  |                       |                       |                       |
| 6DX2                  |                       |                       | 2LS3                  | 2LA2                  |
| 6DY2                  | 2GO3                  | 2GS2                  |                       | 2LB2                  |
| 6DY3                  |                       | 2GS3                  |                       | 2LC2                  |
| 6EA2-E                |                       |                       |                       |                       |
| 6EA2-M                | 2GS                   | 2GS                   | 2NO2                  | 2DA2                  |
| 6EB2-E                |                       | 2LS                   |                       | 2NO2                  |
| 6EB2-M                |                       | 4GS                   |                       |                       |
| 6EB3-E                |                       | 4LS                   | 2NO3                  | 2NO2                  |
| 8EB2-E                |                       |                       |                       | 2PR2                  |
| 8EB2-M                | 2L02                  | 2LS2                  |                       |                       |
| 8EC2                  |                       | 2LS3                  | 2TF3                  | 2TF2                  |
| 9DY2                  |                       |                       |                       |                       |
| 9DY3                  | 2L03                  | 2LS2                  |                       |                       |
| 9EA2                  |                       |                       | 2LS3                  |                       |
| 9EA3                  |                       |                       |                       |                       |
| 4AB2                  |                       |                       |                       |                       |
| 2AC2                  |                       |                       |                       |                       |
| 4AB2                  |                       |                       |                       |                       |
| 4AC2                  |                       |                       |                       |                       |
| 4SF2                  |                       |                       |                       |                       |
| 4AB3                  |                       |                       |                       |                       |
| 2AC2                  |                       |                       |                       |                       |
| 4AC2                  |                       |                       |                       |                       |
| 4SF2                  |                       |                       |                       |                       |

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AC2	2AC2 4AC2				
		4DS8-	2AC2 2DA2 2DY2 2GO2	4DS8-	4DG2 4LR2 4LS2 4NO2
4DA2	4DA2		2GO3 2GS2		4PR2 4RV2-T
4DB2	2DA2 2NO2 2PR2 4DA2 4DB2 4NO2 4PR2 6DA2		2GS3 2LA2 2LB2 2LC2 2LO2 2LO3 2LR2 2LS2		4SF2 4SF3 4TF2 6DA2 6DY2 6DY3 6EA2-E 6EA2-M
4DD3	2DE2 4DE2		2NO2 2PR2	2LS3	6EB2-E 6EB2-M 6GS2

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
			2RV2-T		6LS2
			2TF2		8EB2-E
			4AC2		8EB2-M
			4DA2		9DY2
			4DE2		9DY3
			4DX2		9EA2
			4DX3		9EA3
			4DY2		
			4EA2-E		
			4EA2-M		
4DX2	2DY2	4DX2	8EB2-E	4DX3	6DY2
	2LA2		8EB2-M		6DY3
	2LB2		9DY2		6EA2-E
	2LC2		9DY3		6EA2-M
	2LO3		9EA2		6EB2-E
	2LS2		9EA3		6EB2-M
	2LS3				6LS2
	2RV2-T	4DX3	2DY2		8EB2-E
	4DX2		2LA2		8EB2-M
	4DY2		2LB2		9DY2

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
	4EA2-E		2LC2		9DY3
	4EA2-M		2LO3		9EA2
	4LS2		2LS2		9EA3
	4RV2-T		2LS3		
	4SF2		2RV2-T	4DY2	2DY2
	4SF3		4DX2		4DY2
	6DY2		4DX3		
	6DY3		4DY2		
	6EA2-E		4EA2-E		
	6EA2-M		4EA2-M		
	6EB2-E		4LS2		
	6EB2-M		4RV2-T		
	6LS2		4SF2		
			4SF3		
4EA2-E	2DY2	4EA3-E	2DY2	4GO2	2GO2
	4DY2		4DY2		2GO3
	4EA2-E		4EA2-E		2GS2
	4EA2-M		4EA2-M		2GS3

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>
	4SF2	4SF2	4GS2
	6DY2	6DY2	4SF2
	6DY3	6DY3	6GS2
	6EB2-E	6EA2-E	
	6EB2-M	6EA2-M	4GO3 2GO2
	8EB2-E	6EB2-E	2GS2
	8EB2-M	6EB2-M	2GS3
	9DY2	8EB2-E	4GS2
	9DY3	8EB2-M	4SF2
		9DY2	6GS2
4EA2-M	2DY2	9DY3	
	4DY2	9EA2	
	4EA2-M	9EA3	4GS 2GS
	4SF2		2LS
	6DY2		4GS
	6DY3		4LS
	6EB2-E		
	6EB2-M		
	8EB2-E		
	8EB2-M		
	9DY2		
	9DY3		

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4LO2	2LS2	4LS3	2LA2	4SF2	2LO3
	2LS3		2LB2		2LR2
	4LS2		2LC2		2LS2
	4SF2		2LO2		2LS3
	6LS2		2LO3		2RV2-T
			4SF2		4AC2
4LO3	2LS2				4DY2
	2LS3	4NO2	2DA2		4LS2
	4LS2		2DE2		4RV2-T
	4SF2		2NO2		4SF2
	6LS2		4DA2		6DY2
			4DE2		6DY3
4LR2	2LR2		4NO2		6GS2
	4LR2		6DA2		9DY2
	4SF2				9DY3
		4RV2-0	2RV2-T		
4LR3	2LR2		4RV2-T	4SF3	2DY2
	4LR2		4SF2		2GO3
	4SF2				2GS2
					2GS3

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4LS	2GS	4SF2	2AC2		2LA2
	2LS		2DY2		2LB2
	4GS		2GS2		2LC2
	4LS		2GS3		2LO3
			2LA2		2LR2
4LS2	2LA2		2LB2		
	2LB2		2LC2		
	2LC2				
	2LO2				
	2LO3				
4SF3	2LS2	6DA	4DA2	6DY3	2DY2
	2LS3		6DA2		4DY2
	2RV2-T				6DY2
	4DY2	6DX2	2DY2		6DY3
	4EA2-E		4DY2		
	4EA2-M		4EA2-E	6EA2-E	2AC2
	4GS2				
	4LR2		4EA2-M		2DY2
	4LS2		4SF2		2LA2
	4RV2-T		6DY2		2LB2
	4SF2		6DY3		2LC2

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
	4SF3		6EA2-E		2LO3
	6DY2		6EA2-M		2LS2
	6DY3		6EB2-E		2LS3
	6EB2-E		6EB2-M		2RV2-T
	6EB2-M		8EB2-E		4AC2
	6GS2		8EB2-M		4DY2
	6LS2		9DY2		4EA2-E
	9DY2		9DY3		4EA2-M
	9DY3		9EA2		4LS2
	9EA2		9EA3		4RV2-T
	9EA3				4SF2
		6DY2	2DY2		4SF3
4TF2	2TF2		4DY2		6DY2
4TF2			6DY2		6DY3
					6EA2-E
					6EA2-M
6EA2-E	6EB2-E	6EA2-M	6DY2	6EB3-E	2DY2
	6EB2-M		6DY3		4DY2
	6LS2		6EA2-M		4EA2-E
	8EB2-E		6EB2-E		4EA2-M
	8EB2-M		6EB2-M		4SF2
	9DY2		6LS2		6DY2

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>
	9DY3	8EB2-E
		8EB2-M
6EA2-M	2AC2	9DY2
	2DY2	9DY3
	2LA2	
	2LB2	6EB2-E
	2LC2	2DY2
	2LO3	4DY2
	2LS2	4SF2
	2LS3	6DY2
	2RV2-T	6DY3
	4AC2	6EB2-E
	4DY2	6EB2-M
	4EA2-E	9DY2
	4EA2-M	9DY3
	4LS2	
	4RV2-T	6EB2-M
	4SF2	2DY2
	4SF3	4DY2
		4SF2
		6DY2
		6DY3
		6EB2-M
		9DY2
		9DY3
		6DY3
		6EA2-E
		6EA2-M
		8EB2-E
		8EB2-M
		9DY2
		9DY3
		9EA2
		9EA3
		6EX2-A
		2GS2
		2GS3
		2LS2
		2LS3
		4GS2
		4LS2
		4SF2
		6GS2
		6LS2

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.2 Special Access Service (Cont'd)14.2.2 Network Channel Interface (NCI) Codes (Cont'd)(C) Compatible Network Channel Interfaces (Cont'd)(1) Voice Grade (Cont'd)

<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>
6EX2-B	2GO3	8EB2-E 2AC2
	2LA2	2DY2
	2LB2	2LA2
	2LC2	2LB2
	2LO2	2LC2
	2LO3	2LO3
	2LR2	2LS2
	4LR2	2LS3
	4SF2	2RV2-T
		4AC2
6GO2	2GO2	4DY2
	2GS2	4LS2
	2GS3	4RV2-T
	4GS2	4SF2
	4SF2	4SF3
	6GS2	6DY2
		6DY3
6LO2	2LS2	6EB2-E
	2LS3	6EB2-M
	4LS2	6LS2
	4SF2	8EB2-E
	6LS2	8EB2-M
		9DY2
		9DY3

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6LS2	2LA2		9DY3		
	2LB2				
	2LC2				
	2LO2				
	2LO3				
	4SF2				
8EC2	2DY2	9DY2	2DY2	9EA3	2DY2
	4DY2		4DY2		4DY2
	4EA2-E		6DY2		4EA2-E
	4EA2-M		6DY3		4EA2-M
	4SF2		9DY2		6DY2
	6DY2				6DY3
	6DY3	9DY3	2DY2		6EA2-E
	6EA2-E		4DY2		6EA2-M
	6EA2-M		6DY2		6EB2-E
	6EB2-E		6DY3		6EB2-M
	6EB2-M		9DY2		8EB2-E
	8EB2-E		9DY3		8EB2-M
	8EB2-M				9DY2
	9DY2	9EA2	2DY2		9DY3
	9DY3		4DY2		9EA3

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(1) Voice Grade (Cont'd)

<u>Compatible CIs</u>	<u>Compatible CIs</u>	<u>Compatible CIs</u>
9EA2	4EA2-E	
9EA3	4EA2-M	
	6DY2	
	6DY3	
	6EA2-E	
	6EA2-M	
	6EB2-E	
	6EB2-M	
	8EB2-E	
	8EB2-M	
	9DY2	
	9DY3	
	9EA2	
	9EA3	

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(2) Program Audio

<u>Compatible CIs</u>		<u>Compatible CIs</u>	
2PG2-1	2PG1-1	4DS8-15E 2PG2-1	2PG1-3 2PG2-3
2PG2-3	2PG1-3	4DS8-15F 2PG2-3	2PG1-5 2PG2-5
2PG2-5	2PG1-5	4DS8-15G 2PG2-5	2PG1-8 2PG2-8
2PG2-8	2PG1-8	4DA8-15H 2PG2-8	2PG1-1 2PG2-1

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(3) Digital Data

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS8-15	4DS8-15+	4DU5-24	4DU5-24	6DU5-24	6DU5-24
	4DU5-24				
	4DU5-48	4DU5-48	4DU5-48	6DU5-48	6DU5-48
	4DU5-56				
	4DU5-96	4DU5-96	4DU5-96	6DU5-56	6DU5-56
	6DU5-24				
	6DU5-48	4DU8-56	4DU5-56	6DU5-96	6DU5-96
	6DU5-96				

+ Available only as a cross connect of two digital channels at appropriate digital speeds at a Telephone Company hub.

ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)

14.2 Special Access Service (Cont'd)

14.2.2 Network Channel Interface (NCI) Codes (Cont'd)

(C) Compatible Network Channel Interfaces (Cont'd)

(4) High Capacity

<u>Compatible CIs</u>		<u>Compatible Cis</u>	
4DS0-63	4DS0-63 4DU8-A,B or C 6DU8-A,B or C	4DS8-15J 6DU8-A	4DU8-A
		4DS8-15K	4DU8-B
4DS6-27	4DS6-27 4DU8-A,B or C 6DU8-A,B or C		4DU8-C 6DU8-B 6DU8-C
4DS6-44	4DS6-44 4DU8-A,B or C 6DU8-A,B or C	4DS8-31	4DS8-31 4DU8-A,B or C 6DU8-A,B or C
4DS8-15	4DS8-15+ 4DU8-B 6DU8-8	4DU8-A,B or C	4DU8-A,B or C

+ Available only as a cross connect of two individual channels of 1.544 Mbps facilities at a Telephone Company hub.

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.3 Directory Access Service14.3.1 Interface Group and Premise Interface Codes

When Directory Access Service is combined with Feature Group B or D Switched Access Service, the Premises Interface Code for the combination will be the available Premises Interface Code provided for the Feature Group B, or D Switched Access Service ordered by the customer. Premises Interface Codes are described in 14.1.1(F) preceding.

When Directory Access Service is provided as a separate trunk group (not in combination with Switched Access Service) Interface Groups 2 through 10 as set forth in 14.1.1 preceding are available. Only the following Premises Interface codes are available when Directory Access Service is provided as a separate trunk group:

4DS9-15	6EA2-E	4RV2-0
4DS9-31	6EA2-M	4AH5-B
4DS0-63	4SF3	4AH6-C
4DS6-44		4AH6-D
4DS6-27		

## ACCESS SERVICE

14. Access Service Interfaces and Transmission Specifications (Cont'd)14.3 Directory Access Service (Cont'd)14.3.2 Standard Transmission Specifications

Following is a matrix illustrating the transmission specifications available with Directory Access Service. Descriptions of the Standard Transmission Specifications, Type A and B, are set forth respectively in 14.1.2(E) and (F) preceding.

<u>Directory Access Service Provided in Combination with Switched Access Service</u>	<u>Transmission Specifications</u>	
	<u>Type A</u>	<u>Type B</u>
- Feature Group B (Interface Groups 2 through 10)		X
- Feature Group D	X	
<u>Directory Access Service Not Combined with Switched Access Service</u>		
- Routed Direct to DA location (Interface Groups 2 through 10)		X
- Routed via an access tandem (Interface Groups 2 through 10)	X	

## ACCESS SERVICE

15. Special Construction

When special construction of facilities is required, the provisions of this tariff apply in addition to all regulations, rates and charges as set forth in the appropriate service tariff.

15.1 Regulations15.1.1 Filing of Charges

Rates, charges and liabilities for special construction to provide facilities for use for one month or more are filed in 15.1.8, following, as appropriate.

Rates, charges and liabilities for the construction of facilities for use for less than one month are filed in supplements to this tariff.

15.1.2 Ownership of Facilities

The Telephone Company providing specially constructed facilities under the provisions of this tariff retains ownership of all such facilities.

15.1.3 Interval to Provide Facilities

Based on available information and the type of service ordered, the Telephone Company will establish a completion date for the specially constructed facilities. If the scheduled completion date cannot be met due to circumstances beyond the control of the Telephone Company, a new completion date will be established and the customer will be notified.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.4 Special Construction Involving Both Interstate and Intrastate Facilities

When special construction involves facilities to be used to provide both interstate and intrastate services, charges for the portion of the construction used to provide interstate service shall be in accordance with this tariff. Charges for the portion of the construction used to provide intrastate service shall be in accordance with the appropriate intrastate tariff.

15.1.5 Payments for Special Construction(A) Payment of Charges

All bills associated with special construction charges are due in accordance with the regulations of the Telephone Company.

(B) Start/End of Billing

Billing of recurring charges for specially constructed facilities starts on the day after the facilities are made available for use. Billing accrues through and includes the day that the specially constructed facilities are discontinued.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.5 Payments for Special Construction (Cont'd)(C) Credit Allowance for Service Interruptions

In the event of a service interruption involving a specially constructed facility, the customer shall receive a recurring monthly charge credit in accordance with the credit allowance provisions in the appropriate service tariff associated with the affected services.

When an interruption continues due to the failure of the customer to authorize the replacement of facilities subject to a Replacement Charge, as specified in 15.1.8(A)(4) following, the credit allowance will be terminated on the seventh calendar day after the Telephone Company has provided the customer with written notification of the need for replacement. The credit allowance will resume on the day after the Telephone Company receives written authorization for the replacement from the customer.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.6 Liabilities and Charges for Special Construction(A) General

This section describes the various charges and liabilities that may apply when the Telephone Company provides special construction of facilities in accordance with an order for service. Written approval of all liabilities and charges must be provided to the Telephone Company prior to the start of construction.

(B) Conditions Requiring Special Construction

Special construction is required when 1) facilities are not available to meet an order for service, and 2) the Telephone Company constructs facilities, and 3) one or more of the following conditions exists:

- The Telephone Company has no other requirement for the facilities requested.
- It is requested that service be furnished using a type of facility, or via a route, other than that which the Telephone Company would normally utilize in furnishing the requested service.
- More facilities are requested than would normally be required to satisfy an order.
- It is requested that construction be expedited, resulting in added cost to the Telephone Company.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.7 Development of Liabilities and Charges

Special construction charges and liabilities will be developed based on estimated costs, except when actual costs are requested in writing prior to the start of special construction.

In order to meet a scheduled service date when actual costs are requested, an initial special construction filing may be made based on estimated costs. Such a filing will be revised when actual costs are available.

15.1.8 Types of Liabilities and Charges

Depending on the specifics associated with each individual case, one or more of the following special construction charges and/or liabilities may be applicable:

(A) Nonrecurring Charge

A nonrecurring charge always applies and includes one or more of the following components:

(1) Case Preparation Charge

A nonrecurring charge always includes a case preparation charge component to cover the administrative expenses associated with preparing a special construction case and the associated tariff filing.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.8 Types of Liabilities and Charges (Cont'd)(A) Nonrecurring Charge (Cont'd)(2) Expediting Charge

A nonrecurring charge may include an expediting charge when it is requested that special construction be completed on an expedited basis. The charge equals the difference in estimated cost between expedited and nonexpedited construction.

(3) Optional Payment

An optional payment charge may be included in the nonrecurring charge in association with a type of facility or route other than that which the Telephone Company would normally use in furnishing the requested service if lower recurring monthly charges are desired for the specially constructed facilities. This charge is equal to the excess installed cost or the total nonrecoverable cost, whichever is less. This election must be made in writing before special construction starts. If this election is coupled with the actual cost option, the optional payment charge will reflect the actual cost of the specially constructed facilities.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.8 Types of Liabilities and Charges (Cont'd)(A) Nonrecurring Charge (Cont'd)(4) Replacement Charge

If any portion of specially constructed facilities for which an optional payment charge has been paid requires replacement involving capital investment, a replacement charge will apply. This charge will be in the same ratio to the total replacement cost as the initial optional payment charge was to the installed cost of the original specially constructed facilities. If any portion of the facilities subject to the replacement charge fails, service will not be restored until notification is provided in writing that replacement is required and such replacement is ordered.

(5) Rearrangement Charge

If the Telephone Company is requested to rearrange existing specially constructed facilities, a nonrecurring charge equal to the cost of any additional special construction will apply.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.8 Types of Liabilities and Charges (Cont'd)(A) Nonrecurring Charge (Cont'd)(6) Special Construction of Facilities for Use for less than One Month

When the Telephone Company is requested to construct facilities to provide service for less than one month, a nonrecurring charge only applies. In addition to the case preparation charge component, this nonrecurring charge recovers all elements of cost, including engineering, shipping of equipment, equipment installation, line-up, equipment leasing, space rental, equipment removal, and any other costs associated with the construction of the facilities.

(B) Maximum Termination Liability and Termination Charge

A Maximum Termination Liability is equal to the nonrecoverable costs associated with specially constructed facilities and is the maximum amount which could be applied as a Termination Charge if all specially constructed facilities were discontinued before the Maximum Termination Liability expires.

The liability period is equal to the average life of the account associated with the specifically constructed facilities. The liability period is generally expressed in terms of an effective and expiration date.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.8 Types of Liabilities and Charges (Cont'd)(B) Maximum Termination Liability and Termination Charge  
(Cont'd)

The Maximum Termination Liability is filed with the initial tariff filing in decreasing amounts at ten-year intervals over the average account life of the facilities. In the event that the average account life of the facilities is not an even multiple of ten, the last increment will reflect the appropriate number of years remaining.

Example Illustrating a 27-Year Average Account Life

<u>Maximum Termination Liability</u>	<u>Effective Expiration Date</u>	
\$10,000	6/1/84	6/1/94
7,000	6/1/94	6/1/04
3,000	6/1/04	6/1/11

Prior to the expiration of each liability period, the customer has the option to (A) terminate the special construction case and pay the appropriate charges, or (B) extend the use of the specially constructed facilities for the new liability period.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.8 Types of Liabilities and Charges (Cont'd)(B) Maximum Termination Liability and Termination Charge  
(Cont'd)

The Telephone Company will notify the customer six months in advance of the expiration date of each ten-year liability period. The customer must provide the Telephone Company with written notification at least 30 days prior to the expiration of the liability period if termination is elected. Failure to do so will result in an automatic extension of the special construction case to the next liability period at the filed Maximum Termination Liability amount.

A Termination Charge may apply when all services using specifically constructed facilities which have a tariffed Maximum Termination Liability are discontinued prior to the expiration of the liability period. The charge reflects the unamortized portion of the nonrecoverable costs at the time of termination, adjusted for net salvage and possible reuse. Administrative costs associated with the specific case of special construction and any costs for restoring a location to its original condition are also included. A Termination Charge may never exceed the filed Maximum Termination Liability.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.8 Types of Liabilities and Charges (Cont'd)(B) Maximum Termination Liability and Termination Charge  
(Cont'd)

A partial termination of specially constructed facilities will be provided, at the election of the customer. The amount of the Termination Charge associated with such partial termination is determined by multiplying the termination charge which would result if all services using the specially constructed facilities were discontinued, at the time partial termination is elected, by the percentage of specially constructed facilities to be partially terminated. A tariff filing will be made following a partial termination to list remaining Maximum Termination Liability amounts and the number of specially constructed facilities the customer will remain liable for.

Example

A customer with a filed Maximum Termination Liability of \$100,000 for 3600 specially constructed facilities requests a partial termination of 900 facilities. The Termination Charge for all facilities, at the time of election, is \$60,000. The partial termination charge, in this example, is \$60,000 x 900/3600, or \$15,000.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.8 Types of Liabilities and Charges (Cont'd)(C) Annual Underutilization Liability and Underutilization Charge

Prior to the start of special construction, the Telephone Company and the customer will agree on (1) the quantity of facilities to be provided, and (2) the length of the planning period during which the customer expects to place the facilities in service. The planning period is hereinafter referred to as the Initial Liability Period (ILP). The ILP is listed in the tariff with an effective and expiration date.

Underutilization occurs only if, at the expiration date of the ILP and annually thereafter, less than 70 percent of the specially constructed facilities are in service at filed tariff service rates.

An annual underutilization liability amount is filed on a per unit basis (e.g., per cable pair) for each case of special construction. This amount is equal to the annual per unit cost and includes depreciation, maintenance, administration, return, taxes and any other costs identified in the supporting documentation provided at the time the special construction case is filed.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.8 Types of Liabilities and Charges (Cont'd)(C) Annual Underutilization Liability and Underutilization Charge (Cont'd)Example

Upon the expiration of the ILP, the number of underutilized facilities, if any, are multiplied by the annual underutilization liability amount. This product is then multiplied by the number of years (including any fraction thereof) in the ILP to determine the underutilization charge.

Annually thereafter, the number of underutilized facilities, if any, existing on the anniversary of the ILP expiration date will be multiplied by the annual underutilization charge for the preceding 12 month period.

A customer order 100 services and the special construction of a 600 pair building riser cable is agreed to, based on the customer's 5 year facility requirements. The ILP, in this example, would be filed at 5 years. The annual underutilization liability is filed at \$15.00 per pair. If 400 pairs were in service at the end of the ILP, there would be an underutilization of 20 pairs, i.e.,  $420 (70\% \text{ of } 600) - 400 = 20$ . The total underutilization charge for the first 5 years would be \$200.00, or \$15.00 per pair x 20 pairs x 5 years.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.8 Types of Liabilities and Charges (Cont'd)(C) Annual Underutilization Liability and Underutilization Charge (Cont'd)

If 420 pairs are in service at the end of the sixth year, there is no underutilization, i.e.,  $420 - 420 = 0$ .

(1) Charge for Route or Type other than Normal

When special construction is requested using a route or type of facility other than that which the Telephone Company would normally use, a recurring monthly charge, in addition to the monthly rates for service, is applicable. The charge is equal to the difference between the recurring costs of the specially constructed facilities and the recurring costs of the facilities the Telephone Company would have normally used.

- (a) When an Optional Payment Charge as set forth in 15.1.8(A)(3) preceding has been elected, the recurring monthly charge will be reduced to include specifically constructed facility operating expenses only.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.8 Types of Liabilities and Charges (Cont'd)(C) Annual Underutilization Liability and Underutilization Charge (Cont'd)(1) Charge for Route or Type other than Normal (Cont'd)

- (b) If the actual cost option as set forth in 15.1.7 preceding has been elected, the recurring charge will be adjusted to reflect the actual cost of the new construction when the costs have been determined. This adjusted recurring charge is applicable from the start of service.

(D) Lease Charge

This charge applies when the Telephone Company leases equipment in order to meet service requirements. The amount of the charge is equal to the net added cost to the Telephone Company caused by the lease.

(E) Cancellation Charge

If a service order with which special construction is associated is cancelled prior to the start of service, a cancellation charge will apply. The charge will include all nonrecoverable costs incurred by the Telephone Company in association with the special construction up to and including the time of cancellation.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.9 Deferral of Start of Service

The Telephone Company may be requested to defer the start of service which will use specially constructed facilities subject to the provision set forth in the service tariff under which service is being provided. Requests for special construction deferral must be in writing and are subject to the following regulations:

(A) Construction Has Not Begun

If the Telephone Company has not incurred any installation costs before receiving a request for deferral, no charge applies.

(B) Construction Has Begun

If the construction of facilities has begun before the Telephone Company receives a request for deferral, charges will vary as follows:

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1 Regulations (Cont'd)15.1.9 Deferral of Start of Service (Cont'd)(C) All Services Are Deferred

When all services which will use specially constructed facilities are deferred, a charge based on the costs incurred by the Telephone Company during each month of the deferral will apply. Those costs include the recurring costs for that portion of the facilities already completed and any other costs associated with the deferral. The cost of any components of the nonrecurring charge which have been completed at the time of deferral will also apply.

(D) Some Services Are Deferred

When some services which will use the specially constructed facilities are deferred, the construction case will be completed and all special construction charges will apply.

15.1.10 Construction Complete

If the construction of facilities has been completed before the Telephone Company receives a request for deferral, all special construction charges will apply.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1.11 Definitions

Actual Cost - The term "Actual Cost" denotes all costs charged against a specific case of special construction, including any appropriate taxes.

Annual Underutilization Liability - The term "Annual Underutilization Liability" denotes a per unit amount which may be billed annually if fewer services are in use utilizing specially constructed facilities at filed tariff rates than were originally specially constructed.

Estimated Cost - The term "Estimated Cost" denotes all estimated costs that will be incurred in providing a specific case of special construction, including any appropriate taxes.

Facilities - The term "Facilities" denotes any cable, poles, conduit, microwave or carrier equipment, wire center distribution frames, central office switching equipment etc., utilized to provide interstate services.

Initial Liability Period - The term "Initial Liability Period" denotes the initial planning period during which the customer expects to place specially constructed facilities in service.

Installed Cost - The term "Installed Cost" denotes the total investment (estimated or actual) required by the Telephone Company to provide specially constructed facilities.

Maximum Termination Liability - The term "Maximum Termination Liability" denotes the maximum amount which may be billed if all services using specially constructed facilities are terminated prior to the expiration of the Maximum Termination Liability Period.

## ACCESS SERVICE

15. Special Construction (Cont'd)15.1.11 Definitions (Cont'd)

Maximum Termination Liability Period - The term "Maximum Termination Liability Period" denotes the length of time for which a termination charge may apply if all services using specially constructed facilities are terminated.

Net Salvage - The term "Net Salvage" denotes the estimated scrap, sale, or trade-in value, less the estimated cost of removal. Costs of removal includes the costs of demolishing, tearing down, or otherwise disposing of the material and any other applicable costs. Since the cost of removal may exceed salvage value, net salvage value may be negative.

Nonrecoverable Cost - The term "Nonrecoverable Cost" denotes the cost of specially constructed facilities for which the Telephone Company has no foreseeable use should the service be terminated.

Normal Construction - The term "Normal Construction" denotes all facilities the Telephone Company would normally use to provide service in the absence of a requirement for special construction.

Permanent Facilities - The term "Permanent Facilities" denotes facilities providing service for one month or more.

Recoverable Cost - The term "Recoverable Cost" denotes the cost of the specially constructed facilities for which the Telephone Company has a foreseeable reuse, either in place or elsewhere, should the service be terminated.

Termination Charge - The term "Termination Charge" denotes the portion of the Maximum Termination Liability that is applied as a nonrecurring charge when all services are discontinued prior to the expiration of the specified liability period.

ACCESS SERVICE

16. Rates and Charges

16.1 Common Line Access Service

16.1.1 Carrier Common Line Access Service

Regulations concerning Carrier Common Line Access are set forth in Section 3 of the NECA F.C.C. Tariff No. 5.

Carrier Common Line Rates are as set forth in NECA Tariff F.C.C. No.5, at 17.1.1.

16.1.2 End User Access Service

Regulations concerning End User Common Line are set forth in Section of the NECA F.C.C. Tariff No. 5.

End User Common Line rates are as set forth in NECA Tariff F.C.C. No. 5, at 17.1.2.

16.1.3 Lifeline Assistance and Universal Service Fund Service Charges

Regulations concerning Lifeline Assistance and Universal Service Fund Service Charges are set forth in Section 8 of the NECA Tariff F.C.C. No.5.

Rates for Lifeline Assistance and Universal Service Fund Service Charges are set forth in NECA Tariff F.C.C. No. 5 at 17.1.4.

## ACCESS SERVICE

16. Rates and Charges16.2 Switched Access Service16.2.1 Nonrecurring Charges(A) Local Transport - Installation  
Entrance Facility

	<u>Rate</u>	
- Voice Grade Two Wire	\$208.00	
- Voice Grade Four Wire	\$208.00	
- High Capacity DS1	\$474.00	
- High Capacity DS3	\$946.00	

Tariff  
Section  
Reference

6.4.1(B)(1)

(B) Interim 900 NXX Translation  
Per Order

\$87.92

6.4.1(B)(2)

(C) FGD Conversion of Multi-  
frequency Address Signaling  
to SS7 Signaling or SS7  
Signaling to Multifrequency  
Address Signaling

- Per 24 Trunks Converted, or  
Fraction thereof, on a  
Per Order Basis

\$444.00

6.4.1(B)(3)

(D) Direct Trunked Transport Activation

- Per 24 Trunks Activated, or  
Fraction thereof, on a per  
Order Basis

\$84.75(R)(X)

6.4.1(B)(1)

(X) Tariff page revised pursuant to Transmittal No. 90.

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General Manager  
600 Telephone Ave.  
Anchorage, AK 99503-6091

Effective: July 1, 1996

## ACCESS SERVICE

16. Rates and Charges16.2 Switched Access Service (Cont'd)

16.2.2	<u>Local Transport</u>	<u>Rate</u>	<u>Tariff Section Reference</u>
-	<u>Entrance Facility</u> Per Termination		6.1.3(A)(1)
-	Voice Grade Two Wire	\$23.32 (R)	
-	Voice Grade Four Wire	\$42.80 (R)	
-	High Capacity DS1	\$138.38 (R)	
-	Facility of 3 DS3s	\$1,357.12 (R)	
-	Channel Interface Connection per DS3 Channel installed	\$1,767.35 (R)	
-	<u>Direct Trunked Transport</u>		
-	<u>Direct Trunked Facility</u> Per Mile		6.1.3(A)(2)
-	Voice Grade	\$1.26 (R)	
-	High Capacity DS1	\$25.71 (R)	
-	High Capacity DS3	\$246.81 (R)	
-	<u>Direct Trunked Termination</u> Per Termination		
-	Voice Grade	\$13.92 (R)	
-	High Capacity DS1	\$116.44 (R)	
-	High Capacity DS3	\$523.99 (R)	
-	<u>Multiplexing</u> Per Arrangement		6.1.3(A)(5)
-	DS3 to DS1	\$474.70 (R)	
-	DS1 to Voice	\$459.40 (R)	

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 Director Regulatory Affairs  
 510 L St., Ste 210  
 Anchorage, AK 99501

## ACCESS SERVICE

16. Rates and Charges

16.2 <u>Switched Access Service</u> (Cont'd)	Rate	Tariff Section Reference
16.2.2 <u>Local Transport</u> (Cont'd)		
- <u>Tandem Switched Transport</u>		6.1.3(A)(3)
- <u>Tandem Switched Facility</u> Per Access Minute Per Mile	\$.000432	(R)
- <u>Tandem Switched Termination</u> Per Access Minute Per Termination	\$.001956	(R)
- <u>Tandem Switching</u> Per Access Minute Per Tandem	\$.044710	(R)
- <u>Residual Interconnection Charge</u> Per Access Minute	\$.001436	6.1.3(A)(4) (R)
(A) <u>Common Channel Signaling Network Connection</u>		6.1.3(A)(8)
(1) <u>Signaling Network Access Link</u>		
- Signaling Mileage Facility per mile	\$2.52	(R)
- Signaling Mileage Termination per termination	\$27.81	(R)
- Signaling Entrance Facility per facility	\$56.73	(R)
- <u>Nonrecurring Charge</u>	\$292.00	
(2) <u>STP Port</u> Per port	\$765.00	

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 Director Regulatory Affairs  
 510 L St., Ste 210  
 Anchorage, AK 99501

## ACCESS SERVICE

16. Rates and Charges (Cont'd)16.2 Switched Access Service (Cont'd)16.2.2 Local Transport (Cont'd)

	<u>Rate</u>	<u>Tariff Section Reference</u>
(B) <u>Network Blocking Per Blocked Call</u>		6.7.6
Applies to FGD only	\$ .0354	
<u>Premium Access</u>		
(C) <u>800 Data Base Access Service Queries</u>		6.8.4
Per Query		
Basic	\$ .001574	(R)
Vertical Feature	\$ .001574	(R)
(D) <u>LNP Data Base Query Charge</u>		
- LNP Data Base Query Activation or Rearrangement Nonrecurring Charge per ¼ hour	\$ 22.50	
- Per Query	\$ .000340	

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 510 L St., Ste 210  
 Anchorage, AK 99501

## ACCESS SERVICE

16. Rates and Charges (Cont'd)16.2 Switched Access Service (Cont'd)16.2.3 End OfficeRateTariff  
Section  
Reference(A) Local Switching

6.1.3(B) (I)

Premium

- Local Switching Per Access Minute Feature Groups A, B and D (including: (1) Feature Group B when utilized for the provision of MTS/WATS service and (2) Feature Groups A and B when utilized for the provision of terminating inward WATS and WATS-type services at an equal access WATS Serving Office.) \$ .011373

(B) Information Surcharge

6.1.3(B)(2)

- Premium Per 100 Access Minutes \$ .003546 (R)

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510 L St., Ste 210  
Anchorage, AK 99501

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.2 Switched Access Service (Cont'd)

Tariff  
 Section  
Reference

16.2.3 End Office (Cont'd)

(C) Flexible Automatic Number Identification (Flex ANI)

6.8.1(X)

(N)\*

- per Payphone Service Provider (PSP) line

Non-  
 Recurring  
Charge  
 \$44.24<sup>‡</sup>

(N)\*

16.2.4 Directory Assistance Service

Rate

(A) Directory Assistance Service

\$.7986

9.4.2

A Directory Assistance Service Charge applies for each call to Directory Assistance Service.

(B) Credit Allowance for Uncompleted DA Calls

In addition to the credit allowances for Directory Assistance Service Call and Directory Transport as set forth respectively in 9.4.8(A) and (B) preceding, there is also a credit allowance for the Switched Access Service portion in the originating LATA of such DA call. The credit will be as set forth following:

(1) Credit per call when Switched Access Service is billed using premium per minute rates \$\$.0107 9.4.8

<sup>‡</sup> To be assessed as a one-time nonrecurring charge during October 1998.

\* Tariff page revised pursuant to Transmittal No. 99.

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.3 Special Access Service

16.3.1	<u>Surcharge for Special Access Service</u>	Monthly <u>Rate</u>	Non- Recurring <u>Charge</u>	Tariff Section <u>Reference</u>
	- Per Voice Grade Equivalent	\$25.00		7.3
16.3.2	<u>Voice Grade Service</u>			
	Regulations concerning Voice Grade Service are set forth in 7.4 preceding.			7.4
(A)	Channel Termination Per Termination			7.4
	- Two-Wire	\$23.32 (R)	\$208.00	
	- Four-Wire	\$42.80 (R)	\$208.00	
(B)	Channel Mileage			7.4
(1)	Channel Mileage Facility Per Mile	\$1.26 (R)		
(2)	Channel Mileage Termination Per Termination	\$13.92 (R)		7.4
(C)	Optional Features and Functions			7.4.3
(1)	Bridging per port			
	- Two-Wire	\$4.30 (R)		
	- Four-Wire	\$7.30 (R)		

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 (Transmittal No. 108)

Director Regulatory Affairs  
 510 L St., Ste 210  
 Anchorage, AK 99501

## ACCESS SERVICE

16. Rates and Charges (Cont'd)16.3 Special Access Service (Cont'd)16.3.2 Voice Grade Service (Cont'd)(C) Optional Features and  
Functions (Cont'd)

(2) Conditioning Per Termination

- C Type

- Data Capability

(3) Improved Return Loss for  
Effective Two-Wire or  
Four-Wire Transmission  
Per Termination

- Two-Wire

- Four-Wire

(4) Signaling Capability  
Per termination

Monthly Rate	Tariff Section Reference
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7.4.3

\$7.80 (R)

\$7.80 (R)

\$7.80 (R)

\$7.80 (R)

\$26.40 (R)

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.3 Special Access Service (Cont'd)

16.3.3 Program Audio Service

Regulations concerning Program Audio Service are set forth in 7.5 preceding.

	<u>Monthly Rate</u>	<u>Daily** Rate</u>	<u>Nonrecurring Charge Monthly</u>	<u>Tariff Reference Daily</u>	<u>Section</u>
(A) Channel Termination Per Termination					
- 200 to 3500 Hz	\$19.92 (R)	N/A	\$392.00	N/A	7.5
- 100 to 5000 Hz	\$32.59 (R)	N/A	\$392.00	N/A	
- 50 to 8000 Hz	\$32.59 (R)	N/A	\$392.00	N/A	
- 50 to 15000 Hz	\$32.59 (R)	N/A	\$392.00	N/A	
(B) Channel Mileage <span style="float: right;">7.5</span>					
(1) Channel Mileage Facility Per Mile					
- 200 to 3500 Hz	\$1.26 (R)	N/A			
- 100 to 5000 Hz	\$2.52 (R)	N/A			
- 50 to 8000 Hz	\$3.78 (R)	N/A			
- 50 to 15000 Hz	\$5.04 (R)	N/A			

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.3 Special Access Service (Cont'd)

16.3.3 Program Audio Service (Cont'd)

(B) Channel Mileage (Cont'd)

	Monthly	Daily	Tariff
(2) Channel Mileage Termination Per Termination	<u>Rate</u>	<u>Rate</u>	<u>Reference</u> <u>Section</u>
- 200 to 3500 Hz	\$13.92 (R)	N/A	7.5
- 100 to 5000 Hz	\$27.81 (R)	N/A	
- 50 to 8000 Hz	\$41.73 (R)	N/A	
- 50 to 15000 Hz	\$55.66 (R)	N/A	

16.3.4 Video Service

Regulations concerning Video Service are set forth in 7.6 preceding.

	Monthly	Daily**	Non	
(A) Channel Termination Per Termination	<u>Rate</u>	<u>Rate</u>	Recurring <u>Charge</u>	
		<u>Monthly</u>	<u>Daily</u>	
Video Simplexed	\$138.38 (R)	N/A	\$763.00	N/A
Video Duplexed	\$138.38 (R)	N/A	\$763.00	N/A

\* No demand - Rates available upon request

\*\* Daily rates will be topped and maximum rates derived as set forth in 7.2.2(B) preceding.

## ACCESS SERVICE

16. Rates and Charges (Cont'd)16.3 Special Access Service (Cont'd)16.3.4 Video Service (Cont'd)

(B) Channel Mileage	Monthly <u>Rate</u>	Daily <u>Rate**</u>	Tariff Reference <u>Section</u>
(1) Channel Mileage Facility Per Mile Video	\$25.71 (R)	N/A	7.6
(2) Channel Mileage Termination Per Termination Video	\$116.44 (R)	N/A	

16.3.5 Digital Data Service

Regulations concerning Digital Data Service are set forth in 7.7 preceding. Monthly Rate Non Recurring Charge 7.7

(A) Channel Termination Per termination	Monthly <u>Rate</u>	Non Recurring <u>Charge</u>
- 2.4 Kbps	\$56.73 (R)	\$292.00
- 4.8 Kbps	\$56.73 (R)	\$292.00
- 9.6 Kbps	\$56.73 (R)	\$292.00
- 19.2 Kbps	\$56.73 (R)	\$292.00
- 56.0 Kbps	\$56.73 (R)	\$292.00
- 64.0 Kbps	\$56.73 (R)	\$292.00

\* No demand - Rates available upon request. Daily rates will be topped and maximum rates derived as set forth in 7.2.2(B) preceding.

\*\* 64.0 Kbps service is offered to Utility customers subject to the availability of facilities and to Utility engineering and network constraints.

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(Transmittal No. 108)

Director Regulatory Affairs  
510 L St., Ste 210  
Anchorage, AK 99501

## ACCESS SERVICE

16. Rates and Charges (Cont'd)16.3 Special Access Service (Cont'd)

16.3.5	<u>Digital Data Service</u> (Cont'd)	<u>Monthly Rate</u>	<u>Tariff Reference Section</u>
	(B) Channel Mileage		7.7
	(1) Channel Mileage Facility Per Mile		
	- 2.4 Kbps	\$1.26 (R)	
	- 4.8 Kbps	\$1.26 (R)	
	- 9.6 Kbps	\$1.26 (R)	
	- 19.2 Kbps	\$1.52 (R)	
	- 56.0 Kbps	\$2.52 (R)	
	- 64.0 Kbps	\$2.74 (R)	
	(2) Channel Mileage Termination Per Termination		
	- 2.4 Kbps	\$13.92 (R)	
	- 4.8 Kbps	\$13.92 (R)	
	- 9.6 Kbps	\$13.92 (R)	
	- 19.2 Kbps	\$16.79 (R)	
	- 56.0 Kbps	\$27.81 (R)	
	- 64.0 Kbps	\$30.22 (R)	
	(C) Optional Features and Functions		
	(1) Bridging Per port	\$7.90 (R)	7.7.3

## ACCESS SERVICE

16. Rates and Charges (Cont'd)16.3 Special Access Service (Cont'd)16.3.6 High Capacity Service

Regulations concerning High Capacity Service are set forth in 7.8.1 preceding.

	<u>Monthly Rate</u>	<u>Non- Recurring Charge</u>	<u>Tariff Section Reference</u>
(A) Channel Termination Per Termination			7.8
- DS1 1.544 Mbps	\$138.38 (R)	\$474.00	
- DS1C 3.152 Mbps	ICB	ICB	
- DS2 6.312 Mbps	ICB	ICB	
- Facility of 3 DS3 44.736 Mbps	\$1,357.12 (R)	N/A	
- Channel Interface Connection per DS3 Channel Installed	ICB	ICB	
	\$1,767.35 (R)	\$946.00	
- Facility of 6 DS3 44.736 Mbps	ICB	ICB	
- Channel Interface Connection per DS3 Channel Installed	ICB	ICB	
- Facility of 12 DS3 44.736 Mbps	ICB	ICB	
- Channel Interface Connection per DS3 Channel Installed	ICB	ICB	
- DS4 274.176 Mbps	ICB	ICB	

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Director Regulatory Affairs  
510 L St., Ste 210  
Anchorage, AK 99501

## ACCESS SERVICE

16. Rates and Charges (Cont'd)16.3 Special Access Service (Cont'd)16.3.6 High Capacity Service (Cont'd)

	<u>Monthly Rate</u>
(B) Channel Mileage	
(1) Channel Mileage Facility	
Per Mile	
- 1.544 Mbps	\$25.71 (R)
- 3.152 Mbps	ICB
- 6.312 Mbps	ICB
- 44.736 Mbps	\$246.81 (R)
- 274.176 Mbps	ICB
(2) Channel Mileage Termination	
Per Termination	
- 1.544 Mbps	\$ 116.44 (R)
- 3.152 Mbps	ICB
- 6.312 Mbps	ICB
- 44.736 Mbps	\$523.99 (R)
- 274.176 Mbps	ICB

## ACCESS SERVICE

16. Rates and Charges (Cont'd)16.3 Special Access Service (Cont'd)

16.3.6 <u>High Capacity Service</u> (Cont'd)	<u>Monthly Rate</u>	<u>Non Recurring Charge</u>
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## (C) Optional Features and Functions

## (1) Multiplexing, per arrangement

DS4 to DS1	ICB	
DS3 to DS1	\$ 474.70	(R)
DS2 to DS1	ICB	
DS1C to DS1	ICB	
DS1 to Voice *	\$ 459.40	(R)
DS1 to DS0	\$ 465.60	(R)
DS0 to Subrates		
- Up to 20 2.4 Kbps services	\$ 638.20	(R)
- Up to 10 4.8 Kbps services	\$ 348.50	(R)
- Up to 5 9.6 Kbps services	\$ 203.70	(R)

## (2) Automatic Loop Transfer

- Per arrangement**	\$ 34.50	(R)
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## (D) Clear Channel Capability

- per 1.544 Mbps transmission path	None	
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## (E) DSL Access Service Connection

- per 44.736 Mbps or 100 Mbps Ethernet Port	\$ 1,060.00	Note (1)
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Note (1) Additional nonrecurring engineering and installation labor charges apply, as set forth in Section 16.4.2 and 16.4.3, to install and test the DSL Access Service Connection to a customer's DS-3 channel termination or collocated equipment.

\* A channel of this DS1 to the Hub can be used for Digital Data service.

\*\* An additional Channel Termination charge will apply whenever the spare line is provided as a leg to the customer designated premises.

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(Transmittal No. 108)

Director Regulatory Affairs  
510 L St., Ste 210  
Anchorage, AK 99501

## ACCESS SERVICE

16. Rates and Charges (Cont'd)16.4 Other Services16.4.1 Access Ordering

	<u>Charge</u>	<u>Tariff Section Reference</u>
(A) <u>Access Order Charge</u>		
Per order	\$84.75(R)(X)	5.4.1
(B) <u>Service Date Change Charge</u>		
A Service Date Change Charge will apply, on a per order per occurrence basis, for each service date changed. The Access Order Charge as specified in 16.4.1(A) preceding does not apply. The applicable charge is:		
Service Date Change Charge, per order	\$39.40(R)(X)	5.4.3
(C) <u>Design Change Charge</u>		
The Design Change Charge will apply on a per order per occurrence basis, for each order requiring design change. The applicable charge is:		
Design Change Charge, per order	\$39.40(R)(X)	5.4.3

(X) Tariff page revised pursuant to Transmittal No. 90.

Issued: April 2, 1996

Effective: July 1, 1996

General Manager  
600 Telephone Ave.  
Anchorage, AK 99503-6091

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.4 Other Services (Cont'd)

		Tariff	Section
		<u>Charge</u>	<u>Reference</u>
16.4.1	<u>Access Service Ordering</u> (Cont'd)		
	(D) <u>Miscellaneous Service Order Charge</u>		
	Per Occurrence	\$39.40(R)(X)	7.3
16.4.2	<u>Additional Engineering</u>		
		Each Half Hour or Fraction <u>Thereof</u>	
	<u>Additional Engineering Periods</u>		
	(A) Basic Time per engineer normally scheduled working hours	\$41.69(I)(X)	13.1
	(B) Overtime per engineer outside of normally scheduled working hours	\$62.54(I)(X)	13.1
	(C) Premium Time outside of scheduled work day, per engineer	\$83.38(I)(X)	13.1

(X) Tariff page revised pursuant to Transmittal No. 90.

Issued: April 2, 1996

General Manager  
 600 Telephone Ave.  
 Anchorage, AK 99503-6091

Effective: July 1, 1996

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.4 Other Services (Cont'd)

16.4.3 Additional Labor

(A) Installation or Repair

	Each Half Hour or Fraction Thereof	Tariff Section Reference
- Basic Time	\$41.35(R)(X)	5.2.2(2)
- Overtime, outside of normally scheduled working hours on a scheduled work day per technician	\$62.02(R)(X)	13.2.1 & 13.2.2
- Premium Time, outside of scheduled work day, per technician	\$82.70*(R)(X)	13.2.1 & 13.2.2

(B) Stand by

- Basic time, normally scheduled working hours, per technician	\$42.38(R)(X)	13.2.3
- Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	\$63.58*(R)(X)	13.2.3

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

(X) Tariff page revised pursuant to Transmittal No. 90.

Issued: April 2, 1996

General Manager  
 600 Telephone Ave.  
 Anchorage, AK 99503-6091

Effective: July 1, 1996

## ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.4	<u>Other Services</u> (Cont'd)	Each Half Hour or Fraction Thereof	Tariff Section Reference
16.4.3	<u>Additional Labor</u>		
	(B) Stand by (Cont'd)		
	- Premium Time outside of scheduled work day, per technician	\$84.77*(R)(X)	13.2.3
	(C) Maintenance and Testing		
	- Basic time, normally scheduled working hours, per technician	\$42.44(I)(X)	13.2.3
	- Overtime, outside of normally scheduled working hours on a scheduled work day, per technician	\$63.66*(I)(X)	13.2.3
	- Premium Time outside of scheduled work day, per technician	\$84.88*(I)(X)	13.2.3

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

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Issued: April 2, 1996

General Manager  
600 Telephone Ave.  
Anchorage, AK 99503-6091

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ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.4 Other Services (Cont'd)

16.4.3 Additional Labor (Cont)

Additional Labor Periods

Each Half Hour or Fraction Thereof

	<u>Installation and Repair Technician</u>	<u>Central Office Maintenance Technician</u>	<u>Tariff Section Reference</u>
(C) Maintenance and Testing (Cont'd)			
Testing and Maintenance with other Telephone Companies, or Other Labor			
- Basic Time per technician normally scheduled working hours	\$41.35(I)(X)	\$42.44(I)(X)	13.2.4
- Overtime per technician outside of normally scheduled working hours on a scheduled work day,	\$62.02(I)(X)	\$63.66(I)(X)	13.2.4 &
- Premium Time per technician outside of scheduled work day	\$82.70(I)(X)	\$84.88*(I)(X)	13.2.4 & 13.2.5

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

(X) Tariff page revised pursuant to Transmittal No. 90.

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.4 Other Services (Cont'd)

16.4.4 Miscellaneous Services

(A) <u>Additional Cooperative Acceptance Testing - Switched Access</u>	Each Half Hour or Fraction Thereof	Tariff Section Reference	
<u>Testing Periods</u>			
Basic Time, Overtime* and Premium Time*	See the rates for Add'l Labor as set forth in 16.4.3(C) preceding.	13.3.1(A)(1)	(T)(X)
(B) <u>Additional Automatic Testing - Switched Access</u>			
<u>To First Point of Switching</u>			
Additional Tests	<u>Per Test Per Transmission Path</u>		
Gain-Slope Test	\$2.89	13.3.1(A)(2)	
C-Notched Noise Tests	\$2.89	13.3.1(A)(2)	

\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

(X) Tariff page revised pursuant to Transmittal No. 90.



ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.4 Other Services (Cont'd)

16.4.4 Miscellaneous Services (Cont'd)

	Each Half Hour or Fraction Thereof	Tariff Section Reference
(D) <u>Additional Cooperative Acceptance Testing - Special Access</u> (Cont'd)		

Testing Periods

Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 16.4.3(C) preceding.	13.3.1(B)(1)
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(E) Additional Manual Testing - Special Access

Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 16.4.3(C) preceding.	13.3.1(B)(2)
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\* A call out of a Telephone Company employee at a time not consecutive with the employee's scheduled work period is subject to a minimum charge of four hours.

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.4 Other Services (Cont'd)

16.4.4 Miscellaneous Services (Cont'd)

(F)	<u>Maintenance of Service</u>	Each Half Hour or Fraction Thereof	Tariff Section Reference
	<u>Maintenance of Service Periods</u>		
	Basic Time, Overtime* and Premium Time*	See the rates for Additional Labor as set forth in 16.4.3(C) preceding	13.3.2
(G)	<u>Telecommunications Service Priority</u>		
	Per service arranged	\$54.63	13.3.3
(H)	<u>Billing Name and Address Information</u>	<u>Per BNA</u>	(S)(X)
	1. <u>Per request incidence</u> First billed number	\$41.06	
	2. Every billed number thereafter	\$.087	(S)(X)
(I)	<u>Presubscription</u>		(S)(X)
	Per Telephone Exchange Service line or trunk*	\$ 5.00	13.4

\* This charge is billed to the end user who is the subscriber to the Telephone Exchange Service. In the event an end user is incorrectly presubscribed due to misassignment on the part of the Telephone Company, no charge shall apply. In the event an end user is incorrectly presubscribed due to misassignment on the part of the IC, and the IC is unable to document such an assignment, the Telephone Company will apply the charge to the IC responsible for the misassignment of the end user and assign the end user to an IC of the end user's choice.

(X) Tariff page reissued pursuant to Special Permission No. 93-856 to defer effective date to offer BNA service until November 17, 1993.

## ACCESS SERVICE

16. Rates and Charges (Cont'd)16.4 Other Services (Cont'd)16.4.4 Miscellaneous Services (Cont'd)

		Tariff Monthly Rate	Section Reference	
(J)	<u>Unauthorized PIC Change</u>			
	- Residence/Business Per Telephone Exchange Service line or trunk	\$35.65	13.6	
	- Per Pay Telephone Service line or trunk	\$57.57	13.6	(C)(X)
(K)	<u>International Blocking Service</u>			
	- Per exchange service or trunk and/or per Feature Group A Switched Access line	\$9.77	13.7.1	
(L)	<u>Pay-Per-Call Toll Restore</u>	Non Recurring Charge		
	- Per exchange service or trunk and/or per Feature Group A Switched Access line.	\$10.00	13.7.2	

(X) Tariff page revised pursuant to Special Permission No. 97-43 of the Federal Communications Commission.

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Effective: April 15, 1997

General Manager  
600 Telephone Ave.  
Anchorage, AK 99503-6091

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.4 Other Services (Cont'd)

16.4.4	<u>Miscellaneous Services</u> (Cont'd) Non	Tariff		
		Recurring		
	(M) <u>Billed Number Screening</u>	<u>Charge</u>		<u>Section Reference</u>
	- Per exchange service or trunk and/or per Feature Group A Switched Access line	\$10.00		13.7.3
	(N) <u>Originating Line Screening</u>			
	- Per exchange service or trunk and/or per Feature Group D Switched Access Line	\$10.00		6.8.5
	(O) <u>Coin Signaling Transmission Additive</u>	Monthly		
		<u>Charge</u>		
	- Per exchange service line	\$5.85		13.8
		Per Minute		
		<u>of Use</u>		
	- Per minute of use charge	\$.0109		13.8
	(P) <u>Automated Message Accounting Records</u>	Non		
		Recurring		
		<u>Charge</u>		
	- Programming Charge	\$19.70 per		6.8.6 (N)(X)
		1/4 hour		(N)(X)
		<u>Per AMA Record</u>		
	- Per AMA record extracted	\$.0025		6.8.6 (S)(X)

(X) Tariff page revised pursuant Special permission No. 97.261 of the Federal Communications Commission.

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Effective: August 26, 1997

General Manager  
 600 Telephone Ave.  
 Anchorage, AK 99503-6091

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.4 Other Services (Cont'd)

16.4.4 Miscellaneous Services (Cont'd)

	Tariff Nonrecurring <u>Charge</u>	Section <u>Reference</u>	
(Q) <u>Call Detail Recording</u>			
- Set up charge	\$22.50 per 1/4 hour	6.8.7	
	<u>Monthly Charge</u>		
- Per line or trunk	\$.10	6.8.7	
(P) <u>Local Number Portability Query Service ("LNPQS")</u>	Rate per <u>Query</u>	13.9.1	(N)
LNPQS Default Query Charge			
• Per query	\$ 0.002450		
(Q) <u>Local Number Portability End User Charge</u>	Monthly <u>Rate</u>	13.9.2	(N)
• Basic, per line/port	\$ 0.2927		
• ISDN-PRI, per facility	\$ 1.46		
• PBX, per trunk	\$ 2.63		

## ACCESS SERVICE

16. Rates and Charges (Cont'd)16.4 Other Services (Cont'd)16.4.5 Special Federal Government Access Services

(A)	<u>Voice Grade Secure Communications</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Termination Charges</u>
	Type I, each T-3 Conditioning,			ICB rates and charges apply
	Additional Conditioning, per service termination			ICB rates and charges apply
	Type II, each G-1 Conditioning,			ICB rates and charges apply
	Type III, each G-2 Conditioning,			ICB rates and charges apply
	Additional Conditioning, per service termination			ICB rates and charges apply
	Type IV, each G-3 Conditioning,			ICB rates and charges apply
	Additional Conditioning, per service termination			ICB rates and charges apply

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.4 Other Services (Cont'd)

16.4.5 Special Federal Government Access Services (Cont'd)

(B) Wideband Digital Special Access Service

<u>Wideband Secure Communications</u>	<u>Monthly Rates</u>	<u>Nonrecurring Charges</u>	<u>Termination Charges</u>
---------------------------------------	----------------------	-----------------------------	----------------------------

Type I, each                      ICB rates and charges apply

Type II, each                      ICB rates and charges apply

Type III, each                      ICB rates and charges apply

(C) Diversity and Avoidance Combined

For each service provided in accordance with 11.1.1 and 11.1.2 preceding, combined, the rates and charges will be developed on an individual case basis.

(Reserved for future use.)

(D) Cable-Only Facilities

For each service provided in accordance with 11.1.4 preceding, the rates and charges will be developed on an individual case basis.

16.4.6 Specialized Service or Arrangements

Specialized Service or Arrangements are provided on an individual case basis.

(A) Self Healing Fiber Optic Ring

For services provided in accordance with 12.1 preceding, the rates and charges will be developed on an individual case basis.

(S)<sub>(x)</sub>  
 ||  
 (S)<sub>(x)</sub>

(X) New or revised page; tariff page submitted pursuant to Special Permission 94-454.

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.4 Other Services (Cont'd)

16.4.5 Special Federal Government Access Services (Cont'd)

(A) Self Healing Fiber Optic Ring (Cont' d)

The Telephone Company provides to the Federal Aviation Administration (FAA) a self-healing fiber ring based on an individual case basis for Telecommunications services. This arrangement represents a special access service network configuration not offered under its existing tariff. This service provides for one primary and one diverse route between the customer' s location, the telephone company' s wire centers, and interconnects with an interexchange carrier Point of Presence (POP).

	<u>Monthly Rates</u>
(1) Channel Termination	\$1,171.94
(2) Channel Mileage Termination	\$14.36
(3) Channel Mileage Facility	\$649.45

Contract expiration date occurs in the year 2001.

(S)<sub>(x)</sub>  
 \_\_\_\_\_  
 (S)<sub>(x)</sub>

(x) New or revised page; tariff page submitted pursuant to Special Permission No. 94-454.

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.5 Special Construction

Special Construction charges are developed on an individual case basis and are filed as follows:

Reference

Tariff  
Section  
15.1

Case Number:  
Customer Name:  
Description:  
Charge/Liability:  
Effective Date:  
Expiration Date:

ACCESS SERVICE

16. Rates and Charges (Cont'd)

16.6 Digital Subscriber Line Services

16.6.1 Consumer Digital Subscriber Line Service

Regulations concerning Consumer Digital Subscriber Line Access Service are set forth in Section 8.1, preceding.

<u>CDSL Line Charge</u>	<u>Monthly Rate</u>	
- Per local exchange telephone service line	\$ 36.00	(I)
	Non- Recurring <u>Charges</u>	(T)   (T)
- Loop Qualification Test	\$ 169.98	
- Additional Labor Charges as set forth in Section 16.4.3. may apply to groom a line for CDSL service.		

## ACCESS SERVICE

17. Lifeline Assistance and Universal Service Fund Charges

In its NTS Recovery Order (FCC 87-133, CC Docket Nos. 78-72 and 80-286, released May 19, 1987), the Commission revised Section 69.603(c) and (d) of their rules to require the National Exchange Carrier Association, Inc. (NECA) to bill and collect the charges for Lifeline Assistance and Universal Service Fund (USF) and to disburse associated revenue on a monthly basis. The regulations for administration and billing of Lifeline Assistance and USF rates and charges by NECA to Switched Access Service customers in conformance with Sections 69.4(c), 69.5(d), 69.104(l), 69.116 and 69.117 of the Commission's Rules are found in NATIONAL EXCHANGE CARRIER ASSOCIATION, INC., Tariff F.C.C. No. 5.

(M)\*

(M)

(M)\* Material relocated from Original Tariff page 8-1.