# Tariff User's Guide

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Director - Access Tariffs
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INTRODUCTION

The Tariff Users Guide is meant to assist both experienced and inexperienced users of this tariff in understanding the following:

- tariff content, structure, format and organization,
- effective dates and numbering schemes,
- tariff maintenance procedures,
- symbols and abbreviations, and
- references to other documents/tariffs.

For the experienced user, this Guide contains information which assists in further understanding the tariff and explains procedures related to tariff filings. For the inexperienced user, this Guide should be the starting point of tariff familiarization. It acts as a "road map" to the tariff and should be reviewed first, followed by an examination of the Table of Contents and other administrative documents supplied by NECA.

Immediately preceding this Introduction is a Table of Contents relating strictly to this Guide. This Table of Contents exists in order to provide an overview of the entire Tariff Users Guide, and to assist in quickly finding topics of interest.

Following this Introduction are sample tariff pages that are for illustrative purposes only. They depict and explain tariff methodologies. This Guide is for user benefit only and, in case of conflict, Commission Rules and actual tariff pages take precedence over this Guide.
1. Denotes the revision number of the page, starts with original and progresses 1st, 2nd, etc.
2. Marginal code directing the reader to a footnote.
3. Alpha-numeric numbering plan.
4. Symbolization required by FCC Rules designating various types of changes made to the tariff.
5. Footnote to which the reader was referred by 2, preceding.
6. The date the page was filed with the FCC.
7. The date the tariff page is scheduled to go into effect at the time of its filing. May be superseded by a supplement, or the effective date of certain material may be deferred by a subsequent page containing a footnote. See page 28, following, for example.
6. Switched Access Service (Cont'd)

6.7 Description and Provision of Feature Group C (FGC) (Cont'd)

6.7.1 Optional Features (Cont'd)

(A) Common Switching Options (Cont'd)

(i) Automatic Number Identification (ANI) (Cont'd)

(b) With Feature Group C, technical limitations may exist in Telephone Company switching facilities which require ANI to be provided only on a directly trunked basis. ANI will be transmitted on all calls except those originating from multiparty lines, coin stations and coinless pay telephones, or when an MI-failure has occurred.

(c) Where ANI cannot be provided, e.g., on calls from 4 and 8 party services, information digits will be provided to the customer. The information digits identify:

(i) telephone number is the station billing number - no special treatment required.

(ii) multiparty line - telephone number is a 4- or 8-party line and cannot be identified - number must be obtained via an operator or in some other manner.

See page 3 for a complete list of symbols.
This footnote indicates that the filing is being made pursuant to a Special Permission granted by the FCC. The Special Permission can be included in the ordering clause of a Commission Order or in a letter from the Commission requiring deferral under Part 61.58(a) (2) of the FCC Rules.

More often, the Special Permission has been requested by NECA to file tariff changes that require a waiver of the Commission Rules (e.g., filing on less than statutory notice).
In this example, the (x) footnote denotes a change in the filed rate from a previously filed page. The effective date on this new page will be prior to the original effective date on the previously filed page. The currently effective page should be retained until the new material goes into effect.

The (y) footnote notifies the user that other material on this page was changed under a different transmittal and indicates the effective date for that material.

Additionally, the (S) coding to the right of the tariff text identifies all material which is being reissued, without change, prior to becoming effective.
This tariff contains rates and regulations applicable to Access Services.

**GENERAL**

Page Numbering. Page numbers are located in the upper right corner of each tariff page. Pages for each tariff section are numbered sequentially. The page number shows the tariff section and its location in that section. For example, page 15-2 is the second page of Section 15. When a new page must be added between existing pages, a decimal and number is added to the previous page number, to sequentially number the new page. For example, a new page added between pages 7-18.1 and 7-18.2 would be numbered 7-18.1.1.

Page Revision Numbering. Page Revision Numbers are located in the upper right corner of each tariff page. This number is the most recent page revision on file with the FCC. Due to Notice Periods, and changed Effective Dates, the most recent page on file with the FCC may not be in effect. Consult the Page Effective Date on a specific page and Tariff Supplements to determine if that page is in effect (see Tariff Supplements, following).

Page Effective Date. The Page Effective Date in the lower right corner is the date the page is scheduled to go into effect (at 12:01 AM on that date). THIS DATE MAY BE CHANGED ON THE ASSOCIATION'S OWN INITIATIVE OR DUE TO FCC DIRECTIVE. THE PAGE EFFECTIVE DATE MAY THEN BE CHANGED BY EITHER REISSUING THE PAGE, OR BY ISSUING A TARIFF SUPPLEMENT TO CHANGE THE EFFECTIVE DATE WITHOUT REISSUING THE PAGE. A Tariff Supplement is usually used when many tariff pages are involved to avoid the necessity of reprinting and reissuing many pages solely to change the effective date.

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TARIFF USERS GUIDE (Cont'd)

TARIFF PAGE FORMAT (Cont'd)

Material Effective Date. For the most part, the Page Effective Date found in the lower right corner of the tariff page is the date material becomes effective. As described in Page Effective Date immediately preceding, this may not be the case if a Tariff Supplement has been issued in lieu of reprinting and reissuing many pages. The use of Other Marginal Codes also may be employed to modify the Material Effective Date. Such Other Marginal Codes, lower case letters of the alphabet, (e.g., x, y and z) are ordinarily found in the right margin and direct the reader to footnotes which may contain information concerning the effective date of the page or certain material found on the page. See page 27, preceding, for an example of the use of such other marginal codes.

In summary, (1) read footnotes since they may contain Material Effective Dates other than Page Effective Dates and (2) be aware of Tariff Supplements which may have changed Page Effective Dates en mass. Further on in this section, under the heading "Maintaining Your Tariff", is an explanation of how to keep all these dates straight.

Page Issue Date. The Issue Date in the lower left corner of each tariff page is the date that page was filed with the FCC.

Tariff Section Numbering. An alpha-numeric numbering plan is used to number tariff regulations and rates. Each level is subordinate to and dependent on its next higher level. An example of the numbering sequence follows:

6.
6.1
6.1.1
6.1.1(A)
6.1.1(A)(l)
6.1.1(A)(l)(a)
6.1.1(A)(l)(a)(i)
Tariff Revision Coding

Revisions to this tariff are coded through the use of symbols. These symbols are upper case letters of the alphabet and appear in the right margin of the page. The symbols and their meanings are set forth on page 43, following. An example of the use of such coding is set forth on page 26, preceding.

Other marginal codes are used to direct the reader to a footnote for specific information. Codes used for this purpose are lower case letters of the alphabet, e.g., x, y and z. These codes may appear beside the page revision number or in the right margin opposite specific text. See page 26, preceding, for an example of the use of such other marginal codes.

Tariff Supplements

A Supplement may be filed with the FCC to cancel or suspend a tariff, impart other information such as Rate Adjustment Factors (RAFs), or under Special Authority, to change the effective date of tariff pages or tariff material without reissuing or refiling the affected tariff pages.

A Supplement will briefly describe the action taken (e.g., suspension, deferral, effective date change, etc.) as well as indicate what tariff material, sections or pages are effected.

The Supplements in effect are listed by number on the first Check Sheet, in the text at the top of that Check Sheet. When a Supplement is no longer needed, it will be deleted from the Check Sheet.

It is recommended that Supplements be placed in the front of the tariff, preceding the Title Page.
Title Pages (Title Pages 1 through 68)

Title Page 1 provides information regarding the FCC number of the tariff, the class of service provided, the geographical application of the tariff, and the type of facilities used to provide service. This page also provides information related to the origination of the tariff.

Title Pages 2 through 68 list, in alphabetical order, Issuing Carriers. Issuing Carriers are those exchange telephone companies whose authority to provide and bill for Access Service is this tariff. In the case of this tariff, the carriers listed are those who participate in all National Exchange Carrier Association Tariff Pools. Additionally, Issuing Carriers have not filed their own tariffs for any element of Access Service.

Check Sheets (Page 1)

When new or revised tariff pages are filed with the FCC, revised and updated Check Sheets are also filed with the FCC.

The Check Sheets list all pages in the tariff as well as the most recent revision number of each page. When pages are changed or added, the Check Sheets are changed to reflect the change or addition. An asterisk (*) is placed next to revised or added pages to highlight the pages changed.

The Check Sheets list the most recent page revision filed with the FCC. They do not indicate that the latest revision is effective. The effective date on the tariff page itself and Tariff Supplements must be examined to determine page effectiveness. Furthermore, as explained in Material Effective Date preceding, footnotes may govern the effective date of certain material contained on the page. See page 28, preceding, for an example of such a footnote.

Table of Contents (Pages 2 through 21.1) (T)

The Table of Contents lists the Sections and paragraphs of the Tariff and provides a page number at which that Section or paragraph begins.

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TARIFF USERS GUIDE (Cont'd)

TARIFF STRUCTURE AND ORGANIZATION (Cont'd)

Other Carriers (Page 42)

In addition to Issuing Carriers, all Concurring, Connecting and Other Participating Carriers, are listed in the tariff. There are none in this tariff.

Symbols and Abbreviations (Pages 31, 43, 44 and 44.1)

A listing and explanation of tariff coding symbols and abbreviations used in the tariff are provided.

Technical Publications (Pages 45 through 52)

The status and availability of technical publications required for the provision of Access Service are provided. These technical publications are referenced throughout the tariff, in many cases in the form of footnotes.

Section 1 - Application of Tariff

States the application of the access service tariff.

Section 2 - General Regulations

States the general regulations that apply to the access services offered by this tariff.

Section 3 - Federal Universal Service Charge, ISDN Line Ports and DS1 Line Port and Section 4 - End User Access Service

States the regulations concerning Federal Universal Service Charge, ISDN Line Ports, DS1 Line Port, and End User Access Service, respectively.

Section 5 - Ordering Options

States the requirements of and regulations governing Access Orders and also the regulations concerning Access Orders when service is provided by multiple exchange carriers.

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TARIFF USERS GUIDE (Cont'd)

TARIFF STRUCTURE AND ORGANIZATION (Cont'd)

Section 6 - Switched Access Service

States the regulations governing the provision of Switched Access Service. This section is subdivided into General, Undertaking of the Telephone Company, Obligations of the Customer and Rate Regulations which relate to all Switched Access Services. In addition, this section contains subdivisions for the Description and Provision of each Switched Access Feature Group Service (e.g., FGA, FGB, FGC and FGD).

Section 7 - Special Access Service

States the regulations for Special Access Service. This section is subdivided into General, Rate Regulations and Surcharge For Special Access Service which relate to Special Access Services. In addition, there are subdivisions describing each of the seven Special Access classes of service (e.g., Metallic, Telegraph, Voice Grade, Program Audio, Video, Digital Data and High Capacity). There is also a subdivision for Individual Case Basis Filings (ICBs).

Section 8 - Digital Subscriber Line Access Services

States the regulations governing Digital Subscriber Line Access Services. This section contains subdivisions for the Description and Provision of each type of Digital Subscriber Line Access Service. Each subdivision, e.g., ADSL Access Service, is further subdivided into sections for General, Limitations, Undertaking of the Telephone Company, Obligations of the Customer and Rate Regulations.

Section 9 - Directory Assistance Service

States the regulations governing Directory Assistance (DA) Service. This section is subdivided into General, Undertaking of the Telephone Company, Obligations of the Customer and Rate Regulations. Additionally, it explains and illustrates DA service when it is directly trunked and when provided in combination with Switched Access Service.

Section 10 - Special Federal Government Access Service

This section covers Special Access Services that are provided to a customer for use only by agencies or branches of the Federal Government and other users authorized by the Federal Government. Services provided to state emergency operations are included.

Section 11 - Special Facilities Routing of Access Services

This section covers Special Facilities Routing which involves access services which may be routed (1) via diverse routes in order to affect an added margin of protection and reliability in the event of facility outages (2) via routes avoiding specified geographical locations or (3) via cable only facilities.

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TARIFF USERS GUIDE (Cont'd)

TARIFF STRUCTURE AND ORGANIZATION (Cont'd)

Section 12 - Specialized Service or Arrangements

This section covers service or arrangements not offered under other sections of this tariff. When service or arrangements are furnished via this section, they are provided on an individual case basis (ICB).

Section 13 - Additional Engineering, Additional Labor and Miscellaneous Services

This section covers the regulations governing Additional Engineering, Additional Labor, Miscellaneous Services, Presubscription and Access Recovery Charge.

Section 14 - Exceptions to Access Service Offerings

This section is provided to identify those Issuing Carriers who do not provide certain categories of Access Service offered by this tariff.

Section 15 - Access Service Interfaces and Transmission Specifications

This section covers the technical specifications and service parameters of Access Services. Explains and lists Network Channel (NC) codes, Network Channel Interface (NCI) codes and Service Designator (SD) codes. Displays the technical specifications packages available with Special Access Service.

Section 16 - Public Packet Data Network

This section provides for Public Packet Data Network services and contains the terms and conditions and rate regulations pertaining to Frame Relay Access Service, Asynchronous Transfer Mode Cell Relay Access Service, Ethernet Transport Service, and Internet Protocol Gateway Access Service.

Section 17 - Rates and Charges

This section provides all the rates and charges for the Access Services contained in this tariff. It is organized by Common Line Access Service, Switched Access Service, Special Access Service and Other Services.

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MAINTAINING THE TARIFF

Maintaining a complete and up-to-date tariff can become quite complex, especially when there is a great deal of tariff revision activity underway. This complexity is increased when several revisions are made to the same tariff page(s) in a short period of time. It is also complicated by the use of Tariff Supplements to change dates, defer proposed revisions, etcetera.

A way of dealing with this complexity requires that each FCC Transmittal Letter and associated tariff pages be dealt with separately and sequentially, preferably as received. If several transmittal letters are received at one time, or several are to be dealt with at one time, it is still best to deal with them sequentially.

Following is an explanation of how filings are made, what they contain, and a suggested procedure for dealing with each Transmittal Letter. If Issuing Carriers have questions on Tariff Maintenance, the NECA Access Tariff Group should be contacted at (973) 884-8000 from within New Jersey and (800) 228-8597 from outside of New Jersey, or via electronic mail at Tariff5@neca.org.

Filings Made with the Federal Communications Commission (FCC)

Whenever changes are required to any tariffs, a filing containing new or revised tariff pages must be made with the FCC. A copy of this filing, generally referred to as a "filing package", is sent to individuals on a predetermined NECA distribution list.

Unless a given filing has a particular urgency, it usually will not be sent out the same day it is filed with the FCC, rather, it will be held at NECA until a filing requiring quick distribution is made, or several filings accumulate. This is done to reduce the number of mailings sent from NECA.

These filings will be sent to Issuing Carriers with a cover letter summarizing the filings and highlighting those of greater importance.
Each FCC tariff filing package will typically consist of at least three parts:

- A transmittal letter from NRECA to the FCC, required with each filing. This is usually a one or two page letter constructed to comply with FCC Rules, summarizing the filings.

- One or more "Check Sheets", which are pages of the tariff, showing the current revision numbers of all pages. On each tariff page, this revision number is located in the upper right hand corner, e.g., "13th Revised Page 6-6".

- One or more revised tariff pages, which carry the revision number listed on the enclosed check sheets, and has an Effective Date in the lower right corner of the page. The Issue Date in the lower left corner is the date the revision was filed with the FCC.

In addition to or in place of revised tariff pages, a supplement page may be received. This page can be identified by the words "Supplement No. X to Tariff F.C.C. No. X" in the upper right corner. (Note: Supplements that are effective are listed by number, on check sheet page 1, in the text, directly under the heading CHECK SHEET.)

Check sheets, other tariff pages and supplements are part of the tariff and must be filed in the tariff to keep it current. Check sheets and other numbered pages should be inserted into the tariff in their appropriate locations. It is recommended that supplement pages be filed in the front of the tariff, preceding the Title Page.
Keeping The Tariff Current

1. It is recommended that one filing package (transmittal letter, check sheets, tariff pages, or supplement) be handled at a time. If there are two or more filing packages that must be added to the tariff, start with the lowest numbered transmittal first and work up.

   For example, if transmittal letters Nos. 19, 20 and 21 are received at the same time, work with 19 first, then 20, then 21.

2. For each filing package, compare the revised Tariff Check Sheets with each enclosed Tariff Page to determine that the revision number on the check sheet(s) coincides with the tariff page. The Page 1 Check Sheet, which is issued with each FCC Transmittal Letter (the letter to the FCC signed by the Director-Access Tariffs), provides the latest revision number of each check sheet. The check sheets include the latest revision number of all subsequent tariff pages. An asterisk (*), indicating a new or revised page, next to page numbers/revision numbers on the check sheets indicates which tariff pages are included with each transmittal.

   For example, if the Check Sheet indicates that Tariff Page No. 6-7 is the 5th Revision, it should be in the package received. Other revisions may exist in the tariff, 4th, 3rd, 2nd, etc., don't discard them yet.

3. Examine the Effective Date in the lower right hand corner of the most recently revised Tariff Pages. If the date is in the future, the tariff page is pending and not yet effective.

   For example, if 5th Revised Page 6-7 has an Effective Date of February 1, 1989, and it is January 15, 1989, that page is not yet effective. This is not the case with check sheets. The check sheet Revision Number is the important thing, since each succeeding check sheet supersedes the previous one, regardless of its effective date.
4. If the Effective Date of a revised tariff page is in the future, examine the Effective Date of the previously revised tariff page to determine if the tariff page is in effect or is pending. If the Effective Date has passed and notification has not been received to the contrary (see item 6 following), the tariff page is in effect. If this is the case, discard any previous revisions which may exist since they have been superseded.

For example, if 4th Revised Page 6-6 has an Effective Date of January 1, 1989, and it is January 15, 1989, it is not necessary to retain copies of 3rd, 2nd, 1st revisions of Page 6-6. Recent Supplements should be checked to see if effective dates have been deferred.

If the Effective Date of the 4th Revised Page has not passed, examine the 3rd revised page, and any previously revised pages, until arriving at a page that carries a date that has passed. It is possible to have more than one revised page pending. (For example, 1st Revised Page 7-14 has an Effective Date of January 1, 1989, 2nd Revised is February 1, 1989, 3rd Revised is March 1, 1989, etc.) See Step 6 following regarding the changing of Effective Dates.

5. Pending tariff pages need not be filed in the tariff until they become effective. This will require that an "update file" be established by effective dates for pending pages.

A way to keep pending (not yet effective) pages segregated but still a part of the tariff, is to punch holes in the right margin and file them in the tariff backwards, facing the effective page to be replaced. Then periodically, or when a new FCC Transmittal is received, replace superseded pages with effective pages. This also provides a convenient way to see what changes are pending.
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MAINTAINING THE TARIFF (Cont'd)

Keeping The Tariff Current (Cont'd)

6. There are several ways of changing the effective date of a tariff page.

   - If only a few pages require new effective dates, the pages may be reissued with revised effective dates.

   - When a change in the effective date of multiple tariffs is required, a Tariff Supplement may be issued. Supplements are numbered sequentially. These supplements are an integral part of the tariff and it is suggested that they be filed in the front of the tariff, preceding the Title Page. The status of each Supplement is also given on Page 1, the first Check Sheet. Effective supplement numbers are given in the text near the top of the page, just under the heading CHECK SHEET.

The supplement will explain what material or pages are affected by the supplement's action and give the new dates and action involved. To keep track of dates changed by a supplement, it is suggested that the effective date printed on the affected tariff pages have a line drawn through it, with the new date written just below it. An explanatory note, such as "Supp. #10", written next to the new date.

What To Do When Everything Else Fails

1. If a tariff has become outdated and does not contain all of the current effective or pending pages, there is a method to make it current.

2. Make sure that you have the latest revision of the first page of the check sheet. Issuing Carriers can determine the number of the latest revision by visiting the NECA website (www.neca.org/cms400min/Neca templates/Tariff 5 Landing Page.aspx) and clicking on "Recent Filings". Both pending and recently effective pages may be viewed and printed as needed.
What To Do When Everything Else Fails (Cont'd)

3. If you have the latest revision of Check Sheet, Page 1, examine the other check sheets to determine that they are the latest revisions. The latest revision number of all the other check sheets is given on Check Sheet, Page 1.

4. Working from the latest revision of the check sheets, verify that each page has the same revision number as that given on the check sheets. If several revisions of the same page exist, do not discard.

   If the latest revision listed cannot be found, or if pages are missing, or if a page in the tariff contains the incorrect revision date, view the tariff on-line (www.neca.org/cms400min/Neca_templates/Tariff 5 Landing Page.aspx). Click on “Recent Filings” to view the chart of all pending and recently effective tariff revisions. Print any pages that you are missing.

5. If the revision number corresponds with the check sheet, examine the effective date in the lower right-hand corner. Verify that the material has not been deferred or rejected by issuance of a more recent page revision or supplement. If the date has passed and notification has not been received to the contrary, that page is effective and all previous revisions may be discarded.

   If the effective date has not been reached, the page is pending and a previous revision is in effect. Examine the next previous revision to see if its effective date has passed, or if it is pending. It may be necessary to examine several previously revised pages, since there may be more than one page pending. Upon reaching the currently effective page, all previous revisions may be discarded.

6. At this point, all effective and pending pages should be in the tariff.
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CONCURRING CARRIERS
NO CONCURRING CARRIERS

CONNECTING CARRIERS
NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS
NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS
NONE

REGISTERED TRADEMARKS
NONE

(x) Issued to reflect new corporate address.

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EXPLANATION OF SYMBOLS

C - to signify changed regulation.
D - to signify discontinued rate or regulation.
I - to signify increase to a rate or charge.
M - to signify matter relocated without change.
N - to signify new rate or regulation.
R - to signify reduction to a rate or charge.
S - to signify matter reissued without change.
T - to signify a change in text but no change in rate or regulation.
Z - to signify a correction.

EXPLANATION OF ABBREVIATIONS

ACR - Alternate Carrier Routing
ADA - Abbreviated Dialing Arrangement
ADM - Add/Drop Multiplexing
ADSL - Asymmetric Digital Subscriber Line
AIN - Advanced Intelligent Network
AML - Actual Measured Loss
ANI - Automatic Number Identification
AP - Program Audio
ARC - Access Recovery Charge
ATM - Asynchronous Transfer Mode
ATM-CRS - Asynchronous Transfer Mode Cell Relay Access Service
BHMC - Busy Hour Minutes of Capacity
BIAS - Broadband Internet Access Service
CBOL - Consumer Broadband-Only Loop
CBR - Constant Bit Rate
CCS - Common Channel Signaling
CDP - Customer Designated Premises
CI - Channel Interface
CIR - Committed Information Rate
CN - Charge Number
CNP - Charge Number Parameter
CO - Central Office
Cont'd - Continued
CoS - Class of Service
CPE - Customer Provided Equipment
CPN - Calling Party Number
CSP - Carrier Selection Parameter
DA - Directory Assistance
dB - decibel
dBrnC - Decibel Reference Noise C-Message Weighting
dBrnCO - Decibel Reference Noise C-Message Weighted O
dc - direct current
DDD - Direct Distance Dialing
DSL - Digital Subscriber Line

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Director - Access Tariffs
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EXPLANATION OF ABBREVIATIONS (Cont'd)

EAS - Extended Area Service
EDD - Envelope Delay Distortion
EML - Expected Measured Loss
EPL - Echo Path Loss
ERL - Echo Return Loss
ESALT - Ethernet Switched Access Local Transport
ESS - Electronic Switching System
ESSX - Electronic Switching System Exchange
ETS - Ethernet Transport Service
EVC - Ethernet Virtual Connection
E-EVC - Extended Ethernet Virtual Connection
f - frequency
F.C.C. - Federal Communications Commission
FRAS - Frame Relay Access Service
GETS - Government Emergency Telecommunications Service
HC - High Capacity
HPC - High Probability of Completion
Hz - Hertz
IC - Interexchange Carrier
ICB - Individual Case Basis
ICL - Inserted Connection Loss
I-EVC - Interconnected Ethernet Virtual Connection
IP - Internet Protocol
IPG - Internet Protocol Gateway Access Service
ISDN BRI - Integrated Services Digital Network Basic Rate Interface
ISDN PRI - Integrated Services Digital Network Primary Rate Interface
kbps - kilobits per second
kHz - kilohertz
LAN - Local Area Network
LATA - Local Access and Transport Area
LBR-VCC - Low Bit Rate-Virtual Circuit Channel
LNP - Local Number Portability
LRN - Location Routing Number
ma - milliamperes
Mbps - Megabits per second
mcs - Microsecond
MHz - Megahertz
MM-VCC - MultiMedia Virtual Circuit Channel
MRC - Monthly Recurring Charge
MT - Metallic
MTS - Message Telecommunications Service(s)
### EXPLANATION OF ABBREVIATIONS (Cont'd)

- **NNI** - Network to Network Interface
- **NPA** - Numbering Plan Area
- **NRC** - Nonrecurring Charge
- **NXX** - Three-Digit Central Office Prefix
- **OC** - Optical Carrier
- **OLT** - Optical Line Terminal
- **PBX** - Private Branch Exchange
- **PIC** - Presubscribed Interexchange Carrier
- **POT** - Point of Termination
- **PSDN** - Public Switched Telephone Network
- **FVC** - Permanent Virtual Connection
- **SAC** - Service Access Code
- **SDSL** - Symmetric Digital Subscriber Line
- **SNAL** - Signaling Network Access Line
- **SONET** - Synchronous Optical Network
- **SP** - Signaling Point
- **SPOI** - Signaling Point of Interface
- **SRL** - Singing Return Loss
- **SSP** - Service Switching Point
- **SS7** - Signaling System 7
- **STP** - Signal Transfer Point
- **STS** - Synchronous Transport Signal
- **SWC** - Serving Wire Center
- **TDM** - Time Division Multiplexing
- **TG** - Telegraph Grade
- **TLP** - Transmission Level Point
- **TV** - Television
- **UBR** - Unspecified Bit Rate
- **UNI** - User Network Interface
- **V & H** - Vertical & Horizontal
- **VBR-nrt** - Variable Bit Rate - non-real time
- **VBR-rt** - Variable Bit Rate - real time
- **VCC** - Virtual Circuit Channel
- **VG** - Voice Grade
- **VP** - Virtual Path
- **WATS** - Wide Area Telecommunications Service(s)
- **WSC** - Wireless Switching Center
- **WSO** - WATS Serving Office

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Director - Access Tariffs  
80 So. Jefferson Road, Whippany, NJ 07981
REFERENCE TO OTHER TARIFFS

Whenever reference is made in this tariff to other tariffs of the Telephone Company, the reference is to the tariffs in force as of the effective date of this tariff, and to amendments thereto and successive issues thereof.

The following tariffs are referenced in this tariff and may be obtained from the Federal Communications Commission’s commercial contractor:

| Special Construction | Wire Center Information |
| Tariff F.C.C. No. 3 | Tariff F.C.C. No. 4 |

REFERENCE TO TECHNICAL PUBLICATIONS

The following technical publications are referenced in this tariff and may be obtained from Telcordia Technologies Inc. (formerly Bell Communications Research, Inc. - Bellcore), Direct Sales, 8 Corporate Place, Piscataway, NJ 08854-4156 [www.telcordia.com].

Technical Reference:

- GR-253-CORE Issue 4 Synchronous Optical Network (SONET) (7)
- Transport Systems: Common Generic Criteria (7)
- GR-1374-CORE Issue 1 SONET Inter-Carrier Interface Physical Layer Generic Criteria for Carriers (7)
- Issued: December 1994
- PUB 41004 (MOP-326-584) Data Communications Using Voiceband Private Line Channels (7)
- Issued: October 1993
- PUB 62310 (MOP-326-726) Digital Data System Channel Interface Specification (7)
- Issued: September 1993
- TR-NPL-0000258 Compatibility Information for Feature Group D Switched Access Service (7)
- Issued: October 1993

Transmittal No. 3150

Issued: December 15, 2006
Effective: 1/31/07

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

GR-334-CORE Issue 1 Switched Access Service: Transmission Parameter Limits and Interface Combinations
Issued: June 1994

TR-NWT-000335, Issue 3 Voice Grade Special Access Service - Transmission Parameter Limits and Interface Combinations
Issued: May 1993

TR-NPL-000336 Metallic and Telegraph Grade Special Access Service - Transmission Parameter Limits and Interface Combinations
Issued: October 1987

GR-337-CORE, Issue 1 Program Audio Special Access Service and Local Channel Services
Issued: December 1995

GR-338-CORE, Issue 1 Television Special Access and Local Channel Services - Transmission Parameter Limits and Interface Combinations
Issued: December 1995

TR-NWT-000341 Digital Data Special Access Service - Transmission Parameter Limits and Interface Combinations
Issued: Issue 2, February 1993

GR-342-CORE, Issue 1 High Capacity Digital Special Access Service - Transmission Parameters Limits and Interface Combinations
Issued: December 1995

SR-307 Common Language NC/NCI Dictionary
Issued: Issue 7, September 2008

GR-506-CORE, Issue 3 Signaling for Analog Interfaces (LSSGR)
(T)
Issued: December 2011

(T)

GR-54-CORE, Issue 1 DS1 High Capacity Digital Service End User Metallic Interface Specifications
Issued: December 1995

GR-905-CORE, Issue 13 Common Channel Signaling Network Interface Specification
Available: December 2010

TR-TSV-001370 Generic Requirements for Exchange Access Frame Relay PVC Service
Issued: Issue 1, May 1993

GR-394-CORE Issue 8 Switching System Generic Requirements for Interexchange Carrier Interconnection Using the Integrated Services Digital Network User Part (ISDNUP)
Issued: December 2007

Transmittal No. 1333

Issued: January 17, 2012
Effective: February 1, 2012

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

GR-2936-CORE Issue 3 Local Number Portability (LNP) Capability Specification Service Provider Portability
Issued: November 1997

ST-TEC-000053 Telecommunications Transmission Engineering Volume 3 - Networks and Services (Chapters 6 and 7)
Third Edition
Issued: August 1989

The following technical publication is referenced in this tariff and may be obtained from the National Exchange Carrier Association, Inc., Director - Access Tariffs, 80 So. Jefferson Road, Whippany, NJ 07981 and the Federal Communications Commission's commercial contractor.

PUB AS No. 1, Issue II Access Service
Issued: May 1984
Addendum: March 1987

The following publication is referenced in this tariff and may be obtained from the Department of Homeland Security Office of Emergency Communications Priority Telecommunications Service Center at 866-627-2255 or https://www.dhs.gov/publication/tsp-documents.

Office of Emergency Communications Telecommunications Service Priority Operations Guide
Issued: December 2016

Transmittal No. 1515
Issued: May 17, 2017
Effective: June 1, 2017

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The following technical publications are referenced in this tariff and may be obtained from the Alliance for Telecommunications Industry Solutions (ATIS), 1200 G Street N.W., Suite 500, Washington, DC 20005 (www.atis.org).

ATIS-0900102.1993 (R2010), Digital Hierarchy - Electrical Interfaces. (C)

ATIS-0900105.2008, Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats. (C)

ATIS-1000602.1996 (R2009), Integrated Services Digital Network (ISDN) - Data-Link Layer Signaling Specification for Application at the User-Network Interface. (C)

ATIS-1000618.1991 (R2008), Integrated Services Digital Network (ISDN) - Core Aspects of Frame Protocol for Use with Frame Relay Bearer Service. (C)

ATIS-0600413.2009, Network To Customer Installation Interfaces - Asymmetric Digital Subscriber Line (ADSL) Metallic Interface. (C)

Multiple Exchange Carrier Access Billing (MECAB) Guidelines
Issued: September 2010

Multiple Exchange Carrier Ordering and Design (MECOD) Guidelines
Issued: September 2009

Certain material currently found on this page previously appeared on 12th Revised Page 49.

Transmittal No. 1333

Issued: January 17, 2012
Effective: February 1, 2012

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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publication is referenced in this tariff and may be obtained from the Institute of Electrical and Electronics Engineers, Inc. (IEEE), 445 Hoes Lane, Piscataway, NJ 08854-4141 (www.ieee.org).

IEEE Std. 802.1D - 2004, Local and Metropolitan Area Networks Media Access Control (MAC) Bridges, Sections 7, 9, 17 and Annex G.

IEEE Std. 802.1Q - 2018, Local and Metropolitan Area Networks (T) Virtual Bridged Local Area Networks, Sections 5 through 12 and Annexes E and G.

IEEE Std. 802.3 - 2015, Information Technology - Telecommunications (T) and Information Exchange Between Systems - Local and Metropolitan Area Networks - Specific Requirements, Part 3: Carrier Sense Multiple Access with Collision Detection (CSMA/CD) Access Method and Physical Layer Specifications, Sections 1 through 5.

The following IP/MPLS technical publications are referenced in this tariff and may be obtained from the Broadband Forum, 48377 Fremont Blvd. Suite 117, Fremont, CA 94538 (www.broadband-forum.org).


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The following technical publications are referenced in this tariff and may be viewed online without charge on the Internet Engineering Task Force website (www.ietf.org) using the "RFC Pages" link.

- Request for Comments (RFC) 3262, Reliability of Provisional Responses in the Session Initiation Protocol (SIP), June 2002.
- Request for Comments (RFC) 3264, An Offer/Answer Model with the Session Description Protocol (SDP), June 2002.
- Request for Comments (RFC) 3265, Session Initiation Protocol (SIP) - Specific Event Notification, June 2002.

The following technical publications are referenced in this tariff and may be obtained from the International Telecommunication Union Telecommunication Standardization Sector (ITU-T) Place des Nations, 1211 Geneva 20, Switzerland (www.itu.int/rec/T-REC-G/e).

- ITU-T G.723.1 - May 2006, Dual Rate Speech Coder for Multimedia Communications Transmitting at 5.3 and 6.3 kbit/s.
REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)


ITU-T G.983.2-July 2005, ONT Management and Control Interface Specification for B-PON.


ITU-T G.992.3-April 2009, Asymmetric Digital Subscriber Line Transceivers 2 (ADSL2).

ITU-T G.992.4-July 2002, Splitterless Asymmetric Digital Subscriber Line Transceivers 2 (Splitterless ADSL2).
REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)


The following technical publications are referenced in this tariff and maybe obtained from the International Telecommunications Union Telecommunication Standardization Sector (ITU-T) Place des Nations, 1211 Geneva 20, Switzerland (www.itu.int/rec/T-Rec-H/e).


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REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publications are referenced in this tariff and may be obtained from the International Telecommunication Union Telecommunication Standardization Sector (ITU-T) Place des Nations, 1211 Geneva 20, Switzerland (www.itu.int/rec/T-REC-I/e).


The following technical publications are referenced in this tariff and may be obtained from the International Telecommunication Union Telecommunication Standardization Sector (ITU-T) Place des Nations, 1211 Geneva 20, Switzerland (www.itu.int/rec/T-REC-Q/e).

ITU-T Q.933-February 2003, Series Q: Switching and Signalling Digital Subscriber Signalling System No.1 - Network Layer, ISDN Digital Subscriber Signalling System No.1 (DSS1) - Signalling Specifications from Frame Mode Switched and Permanent Virtual Connection Control and Status Monitoring.
REFERENCE TO TECHNICAL PUBLICATIONS (Cont'd)

The following technical publication is referenced in this tariff and may be obtained from the Metro Ethernet Forum (MEF) 6033 W. Century Boulevard, Suite 1107, Los Angeles, CA 90045 (www.metroethernetforum.org).

Implementation Agreement MEF 23.1, Carrier Ethernet Class of Service - Phase 2, January 2012.