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ACCESS SERVICE

CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS

NONE

REGISTERED TRADEMARKS

NONE

EXPLANATION OF SYMBOLS

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

ACCESS SERVICE

EXPLANATION OF ABBREVIATIONS

| | |
|--------|--|
| ac | - Alternating current |
| ACNA | - Access Customer Name Abbreviation |
| AML | - Actual Measured Loss |
| ANI | - Automatic Number Identification |
| AP | - Program Audio |
| ARC | - Access Recovery Charge |
| ASR | - Access Service Request |
| AT&T | - American Telephone and Telegraph Company |
| ATM | - Asynchronous Transfer Mode (ATM) Network Service |
| BAN | - Billing Account Number |
| BD | - Business Day |
| BHMC | - Busy Hour Minutes of Capacity |
| BSA | - Basic Serving Arrangement |
| BSE | - Basic Service Element |
| CAC | - Carrier Access Code |
| CAROT | - Centralized Automatic Reporting on Trunks |
| CCS7 | - Common Channel Signaling System 7 |
| CI | - Changes Interface |
| CIC | - Carrier Identification Code |
| CLO | - Control Link Oscillator |
| CNM | - Customer Network Management |
| CO | - Central Office |
| COCTX | - Central Office Centrex |
| Cont'd | - Continued |
| CPE | - Customer Provided Equipment |
| CSM | - Customer Service Management |
| Ctx | - Centrex |
| dB | - decibel |
| dBrnC | - Decibel Reference Noise C-Message Weighting |
| dBrnC0 | - Decibel Reference Noise C-Message Weighted 0 |
| dBv | - Decibel(s) Relative to 1 Volt (Reference) |
| dBvl | - Decibel(s) Relating to 1 Volt (Reference) |
| dc | - direct current |
| DSAL | - Dedicated Switched Access Line |
| DSAT | - Dedicated Switched Access Transport |
| DTM | - Direct TLI Monitoring Optional Feature |
| DWDM | - Dense Wave Division Multiplexing |
| EDD | - Envelope Delay Distortion |
| ELEPL | - Equal Level Echo Path Loss |
| EML | - Expected Measured Loss |
| EPL | - Echo Path Loss |
| ERL | - Echo Return Loss |
| ESCON | - Enterprise Systems Connection |
| ESS | - Electronic Switching System |
| ESSX | - Electronic Switching System Exchange |

ACCESS SERVICE

EXPLANATION OF ABBREVIATIONS (Cont'd)

| | |
|--------|---|
| F | - frequency |
| FICON | - Fiber Connection |
| FID | - Field Identifier |
| FCC | - Federal Communications Commission |
| FNPA | - Foreign Numbering Plan Area |
| FX | - Foreign Exchange |
| HC | - High Capacity |
| Hz | - Hertz |
| IC | - Interexchange Carrier |
| ICB | - Individual Case Basis |
| ICL | - Inserted Connection Loss |
| ISC | - InterSystem Channel |
| Kbps | - Kilobits per second |
| KHz | - Kilohertz |
| LATA | - Local Access and Transport Area |
| Ma | - Milliampere |
| Mbps | - Megabits per second |
| MF | - Multifrequency |
| MHz | - Megahertz |
| MMUC | - Minimum Monthly Usage Charge |
| MRC | - Monthly Recurring Charge |
| MTS | - Message Telecommunications Service(s) |
| NDP | - National Discount Plan |
| NPA | - Numbering Plan Area |
| NG-ADM | - Next Generation – Add/Drop Multiplexing |
| NMM | - Network Management Methods |
| NRC | - Nonrecurring Charge |
| NTS | - Non-Traffic Sensitive |
| NXX | - Three-Digit Central Office Code |
| OCn | - Optical Carrier Rate |
| OTPL | - Zero Transmission Level Point |
| PBX | - Private Branch Exchange |
| PCM | - Pulse Code Modulation |
| PLP | - Private Line Ringdown |
| POT | - Point of Terminations |
| Rms | - root-mean-square |
| RPON | - Related Purchase Order Number |
| RSM | - Remote Switching Modules |
| RSS | - Remote Switching Systems |

ACCESS SERVICE

EXPLANATION OF ABBREVIATIONS (Cont'd)

| | |
|--------|---|
| SASG | - Special Access Service Guarantee |
| SCP | - Service Control Point |
| SLA | - Service Level Agreement |
| SONET | - Synchronous Optical Network |
| SPNP | - Service Provider Number Portability |
| SRL | - Singing Return Loss |
| SS7 | - Signaling System 7 |
| SSN | - Switched Service Network |
| SSP | - Service Switching Point |
| STP | - Signaling Transfer Point |
| STS1-N | - Synchronous Transport Signal 1 Rate |
| SWC | - Serving Wire Center |
| TES | - Telephone Exchange Service(s) |
| TLP | - Transmission Level Point |
| TSP | - Telecommunications Service Priority |
| TSPS | - Traffic Service Position System |
| TV | - Television |
| USOC | - Uniform Service Order Code |
| VG | - Voice Grade |
| V & H | - Vertical & Horizontal |
| WATS | - Wide Area Telecommunications Service(s) |

ACCESS SERVICE

REFERENCE TO OTHER TARIFFS

Whenever reference is made in this tariff to other tariffs, 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 tariff is referenced in this tariff and may be obtained from the National Exchange Carrier Association, 80 South Jefferson Road, Whippany, NJ 07981-1009, 800-228-8597, or in electronic format on the internet at www.neca.org.

National Exchange Carrier Association, Inc. (NECA)
Tariff F.C.C. No. 4

ACCESS SERVICE

REFERENCE TO OTHER PUBLICATIONS

The following technical publications are referenced in this tariff and may be obtained from Telcordia Technologies, Customer Service, One Telcordia Drive, RRC 1B-180, Piscataway, NJ 08854-4156, (866)672-6997, or on the Internet at www.telcordia.com.

Compatibility Bulletin 106, Issue 2

Issued: January 1998

Technical Reference:

GR-54-CORE, Issue 1

Issued: December 1995

GR-63-CORE, Issue 3

Issued: March 2006

GR-253-CORE, Issue 4

Issued: December 2005

GR-320-CORE, Issue 1

Issued: August 2003

GR-334-CORE, Issue 1

Issued: July 1994

GR-337-CORE, Issue 1

Issued: December 1995

GR-338-CORE, Issue 1

Issued: December 1995

GR-342-CORE, Issue 1

Issued: December 1995

GR-487-CORE, Issue 3

Issued: April 2009

GR-499-CORE, Issue 3

Issued: September 2004

GR-905-CORE, Issue 11

Issued: December 2008

GR-1089-CORE, Issue 4

Issued: June 2006

GR-1312-CORE, Issue 3

Issued: April 1999

GR-1374-CORE, Issue 1

Issued: December 1994

GR-1400-CORE, Issue 3

Issued: July 2006

GR-1YOD-CORE, Issue 1

Issued: January 1998

GR-2918-CORE, Issue 6

Issued: January 2003

GR-2979-CORE, Issue 5

Issued: March 2005

PUB 41004

Issued: October 1973

PUB 62310

Issued: September 1983

SR-3580, Issue 3

Issued: June 2007

ST-TEC-000053, Issue 1

Issued: August 1989

Telecommunications Transmission Engineering Volume
3 - Networks and Services (Chapters 6 and 7)

TR-NPL-000336, Issue 1

Issued: October 1987

TR-NPL-000339

Issued: October 1987

TR-NPL-000340

Issued: October 1986

TR-NWT-000335, Issue 3

Issued: May 1993

TR-NWT-000341, Issue 2

Issued: February 1993

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REFERENCE TO OTHER PUBLICATIONS (Cont'd)

The following technical publication is referenced in this tariff and may be obtained from Telcordia Routing Administration, 8 Corporate Place PYA 3N-141, Piscataway, NJ 08854-4156, 1(866) 672-4156.

Technical Reference:

The Local Exchange Routing Guide (LERG), Issued: April, 2007, and as issued from time to time

The following publications are referenced in this tariff and may be obtained from the Government Printing Office, Superintendent of Documents, Document Control Branch, 941 N. Capitol Street, N.E., Washington, DC 20401.

Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service Vendor Handbook, National Communications Systems (NCS) H 3-1-2
Issued: December 2000

Telecommunications Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service User Manual, National Communications System (NCS) M 3-1-1
Issued: May 2000

The following technical publication is referenced in this tariff and may be obtained from the National Exchange Carrier Association, Inc., 80 S. Jefferson Road, Whippany, NJ 07981-1009 or on the Internet at www.neca.org.

PUB AS No. 1, Issue II
Issued: May 1984

The following publications are referenced in this tariff and may be obtained from the International Telecommunications Union (ITU), Place des Nations, CH-1211, Geneva 20, Switzerland or on the internet at www.itu.int.net.

| | |
|---------------|--|
| ITU-T G.692 | Issued: October 1998, Amendment 1 January 2005 |
| ITU-T G.959.1 | Issued: December 2003 |

ACCESS SERVICE

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

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

Multiple Exchange Carrier Access Billing Guidelines (MECAB)
ATIS/OBF-MECAB 009, Issue 9 Issued: January 2007

Multiple Exchange Carrier Ordering and Design Guidelines (MECOD)
ATIS-0404120-0007, Issue 7 Issued: April 2009

The following publications are referenced in this tariff and may be obtained from IBM North America, 590 Madison Avenue, New York, NY 10022; 1-800-426-4968 or on the Internet at www.ibm.com/us. Note: ESCON® is a registered trademark of the International Business Machines (IBM) Corporation.

Enterprise Systems Architecture/390 ESCON I/O Interface, Physical Layer (Seventh Edition)

SA23-0394-06 Issued: July 2008

Coupling Facility Channel Physical Layer (Sixth Edition)

SA23-0395-05 Issued: July 2008

Planning Fiber Optic Channel Links (Twelfth Edition)

GA23-0367-12 Issued: July 2009

OS/390 Parallel Sysplex Configuration Volume 2: Cookbook

SG24-5638-00 Issued: August 2000

S/390 Time Management and IBM 9037 Sysplex Timer

SG24-2070-00 Issued: May 1999

The following publication is referenced in this tariff and may be obtained from the Society of Motion Picture and Television Engineers (SMPTE), 3 Barker Avenue, 5th Floor, White Plains, NY 10601, (914)761-1100, or on the Internet at www.smpte.org.

SMPTE 0259M-2008 Issued: 2008

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REFERENCE TO OTHER PUBLICATIONS (Cont'd)

The following publications are referenced in this tariff and may be obtained from the American National Standards Institute (ANSI), 25 West 43rd Street, 4th Floor, New York, New York 10036, or on the Internet at www.ansi.org.

| | |
|------------------------------|--------------|
| ANSI T1.102-1993 (R2005) | Issued: 2005 |
| ANSI T1.102.01-1996 (R2001) | Issued: 2001 |
| ANSI T1.105.01-2000 (R2005) | Issued: 2005 |
| ANSI INCITS 148-1988 (R2004) | Issued: 2004 |
| ANSI INCITS 166-1989 (R2005) | Issued: 2005 |
| ANSI INCITS 296-1997 (R2007) | Issued: 2007 |
| ANSI INCITS 303-1998 (R2003) | Issued: 2003 |

The following publications are referenced in this tariff and may be obtained from Institute of Electrical and Electronics Engineers, Inc., IEEE Standards Association, 445 Hoes Lane, P.O. Box 1331, Piscataway, NJ 08855-1331, or in electronic format on the Internet at www.ieee.org.

| | |
|--------------------------------|--------------|
| IEEE 802.3-2005/Cor2/D2.0-2007 | Issued: 2007 |
| IEEE 802.3u-1995 | Issued: 1995 |
| IEEE 802.3z-1998 | Issued: 1998 |
| IEEE 802.3ae-2002 | Issued: 2002 |

The following publication is referenced in this tariff and may be obtained from the COMM 2000, 1414 Brook Drive, Downers Grove, IL 60515 (888)-UL33503 or on the Internet at www.comm-2000.com.

UL 94, Edition 5 Issued: October 1996

The following publications are referenced in this tariff and may be obtained from the Internet Engineering Task Force (IETF) at IETF Secretariat, c/o Association Management Solutions, LLC (AMS), 48377 Fremont Blvd., Suite 117, Fremont, California 94538, or on the Internet at www.ietf.org.

STD 0001: Internet Official Protocol Standards, J Postel, Editor, Issued: May 2008.

RFC 2138, Remote Authentication Dial-In User Service (RADIUS); C Rigney, A. Rubens, W. Simpson, S. Willens, Issued: April 1997.

The following publication is referenced in this tariff and may be obtained from Frontier Carrier Services, 63 Stone Street, Rochester, NY 14604.

Technical Memorandum for Incidental InterLATA Call Management Signaling Service associated with the Verizon FCC Short Term Notice of Network Change dated March 2007. Issued: March 2007