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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 REGISTERED TRADEMARKS

NONE

NONE

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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

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

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EXPLANATION OF ABBREVIATIONS (Cont'd)

dB	- decibel
dBrnC	- Decibel Reference Noise C-Message Weighting
dBrnC0	- Decibel Reference Noise C-Message Weighted O
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
F FICON	- frequency
FID	- Fiber Connection
FCC	- Field Identifier
FNPA	- Federal Communications Commission
FX	- Foreign Numbering Plan Area
HC	- Foreign Exchange
Hz	- High Capacity
IC	- Hertz
ICB	- Interexchange Carrier
ICL	- Individual Case Basis
DSOTS	- Inserted Connection Loss
ISC	- Digital SONET Optical Transport Service
Kbps	- InterSystem Channel
KHZ	- Kilobits per second
LATA	- Kilohertz
Ma	- Local Access and Transport Area
Mbps	- Milliampere
MF	- Megabits per second
MHz	- Multifrequency
MMUC	- Megahertz
MRC	- Minimum Monthly Usage Charge
MT	- Monthly Recurring Charge
MTS	- Metallic
	- Message Telecommunications Service(s)

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EXPLANATION OF ABBREVIATIONS (Cont'd)

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
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
WA	- Wideband Analog
WATS	- Wide Area Telecommunications Service(s)
WD	- Wideband Data

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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

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
GR-63-CORE, Issue 3
GR-253-CORE, Issue 4
GR-320-CORE, Issue 1
GR-334-CORE, Issue 1
GR-337-CORE, Issue 1
GR-338-CORE, Issue 1
GR-342-CORE, Issue 1
GR-487-CORE, Issue 3
GR-499-CORE, Issue 3
GR-905-CORE, Issue 11

Issued: December 1995
Issued: March 2006
Issued: December 2005
Issued: August 2003
Issued: July 1994
Issued: December 1995
Issued: December 1995
Issued: December 1995
Issued: April 2009
Issued: September 2004
Issued: December 2008

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REFERENCE TO OTHER PUBLICATIONS (Cont'd)Technical Reference: (Cont'd)

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
ITU-T G.959.1

Issued: October 1998, Amendment 1 January 2005
Issued: December 2003

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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
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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 the Frontier Carrier Services, 180 South Clinton Avenue, Rochester, NY 14646.

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