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Title Page 1 and Pages 1 to 23-8 inclusive of this tariff, including Supplement No. 1, are effective as of the date shown. Original and revised pages, as named below are in effect on the date indicated.

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(T)

(D)

(D)

CONCURRING CARRIERS

NO CONCURRING CARRIERS

CONNECTING CARRIERS

NO CONNECTING CARRIERS

OTHER PARTICIPATING CARRIERS

NO OTHER PARTICIPATING CARRIERS

REGISTERED SERVICE MARKS

REGISTERED TRADEMARKS

NONE

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

EXPLANATION OF ABBREVIATIONS

	EXFLANATION OF ADDREVIATION
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	0 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

EXPLANATION OF ABBREVIATIONS (Cont'd)

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

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
- Singing Return Loss SRL
- Signaling System 7 SS7
- Switched Service Network SSN
- SSP - Service Switching Point
- STP
- Signaling Transfer PointSynchronous Transport Signal 1 Rate STS1-N
- SWC - Serving Wire Center
- TES - Telephone Exchange Service(s)
- Transmission Level Point TLP
- 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)

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:

Issued: March 17, 2016

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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

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ITU-T G.692	Issued: October 1998, Amendment 1 January 2005
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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 7Issued: 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

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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.

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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 5Issued: 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.

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