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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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5-139	1st	5-169	2nd	5-199	Original
5-140	2nd	5-170	1st	5-200	Original
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5-142	1st	5-172	1st	5-202	1st
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REGISTERED TRADEMARKS

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CONCURRING CARRIERS
No Concurring Carriers

CONNECTING CARRIERS
No Connecting Carriers

OTHER PARTICIPATING CARRIERS No Other Participating Carriers

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

AAM Assumed Access Minutes

ac alternating current

ACAT Additional Cooperative Acceptance Testing

ACD Automatic Call Distributor

ACNA Access Customer Name Abbreviation
ACTL Access Customer Terminal Location

ADM Add/Drop Multiplexing

AIOD Automatic Identification of Outward Dialed

AM Access Minutes

ANI Automatic Number Identification
ARC Access Recovery Charge
ARD Automatic Ringdown
ASG Access Services Group
ASR Access Service Request
AST Automatic Scheduled Testing
ATM Asynchronous Transfer Mode

AT&TC American Telephone and Telegraph Communications, Inc.

BAN Billing Account Number

BHMC Busy Hour Minutes of Capacity

BP Billing Percentage

BSA Basic Serving Arrangement
BSE Basic Service Element
CAC Carrier Access Code
CCS Centum Call Seconds

CCSA Common Control Switching Arrangement(s)

CDL Customer Designated Location

CDM Call Days in Month

CFA Connecting Facility Assignment
CIC Carrier Identification Code
CIP Carrier Identification Parameter

CLO Control Link Oscillator
CMF Chargeable Minimum Factor

CNM Customer Network Management Optional Feature COMPS Central Office Maintenance Planning System

Cont'd Continued

CSM Customer Service Management Optional Feature

CST Cooperative Scheduled Testing

CSU Circuit Switching Unit

C-TISC Conversion Time-In-Service Credit

EXPLANATION OF ABBREVIATIONS (Cont'd)

DA Digital Data Access
DAM Distance in Airline Miles

dB Decibel

dBm Decibels below one milliwatt

dBmO Transmission Level Referred to the Zero Transmission Level Point

dBrnCO Decibel Reference Noise C Message Weighted O

dBv Decibels Referred to One Volt

dc direct current
DDS Digital Data Service

DTM Direct TL1 Monitoring Optional Feature

DTMF Dual Tone Multifrequency

DX Duplex

DWDM Dense Wave Division Multiplexing ECCKT Exchange Carrier Circuit ID ELEPL Equal Level Echo Path Loss

E&M The Receive and Transmit Leads of a Signaling System

EML Expected Measured Loss

EPL Echo Path Loss ERL Echo Return Loss

ESCON Enterprise Systems CONnection

f frequency

FCC Federal Communications Commission

FCO Foreign Central Office Service FIA Facilities for Interstate Access

FICON Fibre CONnection

FNPA Foreign Numbering Plan Area

GTOC Operating Telephone Companies of GTE Corporation

GSEC General Services and Equipment Code

HC High Capacity

HNPA Home Numbering Plan Area

Hz Hertz

IA Interface Arrangement
IC Interexchange Carrier
ICB Individual Case Basis

IDDD International Direct Distance Dialing

ILP Initial Liability Period
IP Interconnection Point
ISC InterSystem Channel
kbps kilobits per second

kHz kilohertz

LATA Local Access and Transport Area

LEC Local Exchange Carrier

EXPLANATION OF ABBREVIATIONS (Cont'd)

Ma Milliamperes

Mbps Megabits per second

MHz Megahertz

MJU Multi Junction Unit

MRC Monthly Recurring Charge
MST Manual Scheduled Testing
MTL Maximum Termination Liability

NA Not Available

NANP North American Numbering Plan

NDP National Discount Plan

NECA National Exchange Carrier Association
N-MSA Non Qualifying Metropolitan Statistical Area

NMM Network Management Methods

NG-ADM Next Generation Add/Drop Multiplexing

NPA Numbering Plan Area NRC Nonrecurring Charge NST Nonscheduled Testing

NXX Three Digit Central Office Codes'

OC-n Optical Carrier Rate
OPS Off Premises Station
PBX Private Branch Exchange
PCM Pulse Code Modulation
PON Purchase Order Number
POT Point of Termination
RMC Recurring Monthly Charge

rms root mean square

RPON Related Purchase Order Number

EXPLANATION OF ABBREVIATIONS (Cont'd)

SAL Special Access Line

SASG Special Access Service Guarantee

SCFA Secondary Connecting Facility Assignment

SED Service Establishment Date

SF Single Frequency

SLA Service Level Agreement
SONET Synchronous Optical Network
SPNP Service Provider Number Portability

SRL Singing Return Loss
STR Switched Transport Rate
STS1 Synchronous Transport Signal 1

STS1-nV Synchronous Transport Signal 1 with Virtual Concatenation

TDCF Total Day Conversion Factor
TISC Time-In-Service Credit
TLP Transmission Level Point

TV Television

TVP Term Volume Plan
UL Under Utilization Liability

VG Voice Grade

V&H Vertical & Horizontal

WATS Wide Area Telecommunications Service

EXPLANATION OF ABBREVIATIONS (Cont'd) STATE ABBREVIATIONS

AL Alabama MT Montana AK Alaska AR Arkansas NE Nebraska AZ Arizona NC North Carolina CA California ND North Dakota CO Colorado NH New Hampshire CT Connecticut NJ New Jersey DE Delaware NM New Mexico FL Florida NV Nevada GA Georgia NY New York HI Hawaii OH Ohio IA Iowa OK Oklahoma ID Idaho OR Oregon IL Illinois PA Pennsylvania IN Indiana RI Rhode Island KS Kansas SC South Carolina KY Kentucky SD South Dakota LA Louisiana TN Tennessee MA Massachusetts TX Texas MD Maryland UT Utah ME Maine VA Virginia VT Vermont MI Michigan MN Minnesota WA Washington MO Missouri WI Wisconsin MS Mississippi WV West Virginia WY Wyoming

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 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 the National Exchange Carrier Association, Inc., 80 South Jefferson Road, Whippany, NJ 07981-1009 or in electronic format on the Internet at www.neca.org.

PUB AS No. 1, ISSUE II Access Service

Issued: May 1984

PUB AS No. 1, ISSUE II Access Service Addendum

Issued: March 1987

The following technical publications are referenced in this tariff and may be obtained from Testmark Labs, 3050 Harrodsburg Rd., Lexington, Kentucky 40503.

GTE Technical Interface Reference Manual, Issue 2; Sections 3300, 6000, 6103, and 7000 Issued: August 1984, Revised December 1985, August 1986, and October 1988

GTE Telephone Companies - Traffic Grade of Service Standards Issued: April 1985; entire issue

The following technical publications are referenced in this tariff and may be obtained from the 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 (MECAB) Guidelines, ATIS/OBF – MECAB 009, Issue 9 Issued: January 2007

Multiple Exchange Carrier Ordering and Design (MECOD) Guidelines, ATIS $-\,0404120\text{-}0007,$ Issue 7

Issued: April 2009

Issued: March 17, 2016 Effective: April 1, 2016

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

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

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-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-1149-CORE, Issue 7 Issued: December 2008

GR-1312-CORE, Issue 3 Issued: April 1999

GR-1374-CORE, Issue 1 Issued: December 1994

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

GR-1400-CORE, Issue 3 Issued: July 2006

GR-2918-CORE, Issue 6 Issued: January 2003

GR-2979-CORE, Issue 5 Issued: March 2005

Network Equipment Building System (NEBS), SR-3580, Issue 3

Issued: June 2007

SR-TAP-000191, Issue 2 Issued: December 1989

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

ANSI T1.102 - 1993 (R2005) Digital Hierarchy Electrical Interfaces Issued: 2005

ANSI T1.105.01 – 2000 (R2005) Synchronous Optical Network (SONET) - Basic Description Including Multiplex Structure, Rates and Formats Issued: 2005

ANSI INCITS 148-1998 (R2004) Information Systems - Fiber Distributed Data Interface (FDDI) - Token Ring Physical Layer Protocol (PHY) Issued: 2004

ANSI INCITS 166-1989 (R2005) Information Systems - Fibre Data Distributed Interface (FDDI) - Token Ring Physical Layer Medium Dependent (PMD) Issued: 2005

ANSI INCITS 296-1997 (R2007) Information Technology – Single-Byte Command Code Sets Connection (SBCON) Architecture Issued: 2007

ANSI INCITS 303 – 1998 (R2003) Third Generation Fibre Channel Physical and Signaling Interface-3 (FC-PH-3) Issued: 2003

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

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

IEEE 802.3-2005/Cor2/D2.0-2007 Telecommunications and information exchange between systems-Local and Metropolitan Area Networks-Specific Requirements-Part 3 Issued: August 2007

IEEE 802.3u-1995 Supplement to Standard for Information Technology-Local and Metropolitan Area Networks, Part 3

Issued: October 1995

IEEE 802.3z-1998 Supplement to Standard for Information Technology-Local and Metropolitan Area Networks, Part 3

Issued: 1998

IEEE 802.3ae-2002 Supplement to Standard for Information Technology-Local and Metropolitan Area Networks, Part 3

Issued: August 2002

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

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

Issued: December 2000

Telecommunication Service Priority (TSP) System for National Security Emergency Preparedness (NSEP) Service User Manual, National Communications System (NCS) M 3-1-1

Issued: May 2000

Issued: March 17, 2016 Effective: April 1, 2016

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

The following technical 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

The following publications referenced in this tariff 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

S/390 Time Management and IBM 9037 Sysplex Timer

SG24-2070-00 Issued: May 1999

Planning Fiber Optic Channel Links (Thirteenth Edition)

GA23-0367-12 Issued: July 2009

OS/390 Parallel Sysplex Configuration Volume 2: Cookbook

SG24-5638-00 Issued: August 2000

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

Optical Interfaces for Multichannel Systems with Optical Amplifiers, ITU-T G.692

Issued: October 1998, Amendment 1 January 2005

Optical Transport Network Physical Layer Interfaces, ITU-T G.959.1

Issued: December 2003

REFERENCE TO OTHER PUBLICATIONS (Cont'd)

The following technical 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 Issued: March 2007

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.

The Local Exchange Routing Guide (LERG) Issued: August 1, 2009, and as issued from time to time

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 technical publication is referenced in this tariff and may be obtained from the Telecommunications Industry Association, 2500 Wilson Blvd., Suite 300, Arlington, VA 22201.

Electrical Performance for Television Transmission Systems (EIA/TIA-250-C) Issued: February 1990

Issued: March 17, 2016 Effective: April 1, 2016