

**EXHIBIT D**

### EXHIBIT D

#### Specialized Routing Solution For Operator & DA Calls

CALL TYPE	5ESS	DMS-100	EWSD	1AESS	DMS-10
0-	AIN	AIN	AIN	SRN	SRN
0+ local	LCC (co-coin) SRN (non-coin)	LCC (co-coin) SRN (non-coin)	LCC (co-coin) SRN (non-coin)	LCC (co-coin) SRN (non-coin)	LCC (co-coin) SRN (non-coin)
0+ Intra.ATA toll	LCC (coin) SRN/2PIC <sup>1</sup> (non-coin)	LCC (coin) SRN/2PIC <sup>1</sup> (non-coin)	LCC (coin) SRN/2PIC <sup>1</sup> (non-coin)	LCC (coin) SRN/2PIC <sup>1</sup> (non-coin)	LCC (coin) SRN/2PIC <sup>1</sup> (non-coin)
411	AIN	AIN	AIN	AIN	SRN
555-1212	AIN	AIN	AIN	AIN	SRN

<sup>1</sup>After 2 PIC implementation, these calls will be routed to the Intra.ATA toll provider.

Definitions:

1. AIN = Advanced Intelligent Network
2. SRN = Specialized Routing Node
3. LCC = Line Class Code

**EXHIBIT E**

**EXHIBIT E****AIN EXCEPTION LIST**

<b>Lucent 5ESS</b>	<b>Nortel DMS100</b>	<b>Siemens EWSD</b>
ISATND - # ISDN Attendant Lines	NISDN - BRI, Including EKTS	Two-Party Lines
DID - Lines without Office Equipment	MDC Attendant Consoles Data Units	Denied Origination Service
CustoPak Lines	MBS Data Units, Customized ISDN Lines, and functional signaling Meridian feature transparency (MFT) set. (P-phones)	Remote Call Forwarding
Customized ISDN Lines	Datapath lines	
	WATS lines	

**OTHER AIN-BASED SERVICE EXEPTIONS**

1. CENTREX ARS
2. Easy Voice
3. Work At Home Billing Service
4. CENTREX Extend
5. Switch Redirect Service (requires special handling)

**EXHIBIT F**



## EXHIBIT F

TR 72580  
Issue 1, January 1997

**Bell Atlantic Technical Reference**

# **Analog Unbundled Port Services Technical Specifications**

© 1997 Bell Atlantic Network Services, Inc.  
All Rights Reserved  
Printed in U.S.A.

Bell Atlantic Network Services, Inc.  
Technical Reference

TR 72580  
Issue 1, January 1997

### Notice

This Technical Reference is published by Bell Atlantic to provide a technical description of Analog Unbundled Port Services. To the extent feasible, the description references or duplicates existing published technical references utilized by the industry.

Bell Atlantic reserves the right to revise this technical reference for any reason including, but not limited to, changes in tariffs, laws, or regulations, conformity with updates and changes in standards promulgated by various agencies, utilization of advances in the state of technical arts, or the reflection of changes in the design of any facilities, equipment, techniques, or procedures described or referred to herein. Liability for difficulties arising from technical limitations or changes herein is disclaimed.

Bell Atlantic reserves the right not to offer any or all of these services and to withdraw any or all of them at any future time. In addition, the services described herein are based on available facilities and equipment and may not be universally available.

With respect to services offered pursuant to tariff, however, the terms and conditions of the service offering are determined by the tariff itself and applicable laws and regulations. This reference is intended to be supplemental to the tariffs. In the event of a conflict between the tariffs, laws or regulations and this reference, the tariffs, laws, and regulations shall govern.

For additional copies, please contact:

Bell Atlantic Document and Information Delivery Services  
1310 N. Court House Road  
Arlington, VA 22201  
703-974-5887

For information about the technical specifications in this TR, contact:

Trone Bishop  
1 East Pratt St.  
Baltimore, Md. 21202  
410-736-7622

**EXHIBIT F**

**Bell Atlantic Network Services, Inc.**  
**Technical Reference**

**TR 72580**  
**Issue 1, January 1997**

**Bell Atlantic Technical Reference**  
**Analog Unbundled Port Services**  
**Technical Specifications**

<b>Contents</b>	<b>Page</b>
1. General	1
2. Service Description	1
3. Service Elements	6
A. General	6
B. CODF Wiring and Tie Cable(s)	6
C. Bell Atlantic Local Switching System CO Cabling	6
D. Local Switching System Analog Ports	7
4. Service Specifications	7
5. OTC Equipment and CO Cabling Requirements	8
A. OTC Equipment Requirements	8
B. OTC CO Cabling Requirements	9
6. References	10
A. Definitions	10
B. Acronyms	12
7. Bibliography	13

<b>Figures</b>	<b>Page</b>
Figure 2-1: Typical Analog Unbundled Port Configuration	2
Figure 2-2: Unbundled Port Service Elements	3
Figure 2-3: Requirements Associated with Analog Unbundled Port Services	4
Figure 2-4: UPS NC Codes	5
Figure 2-5: UPS NCI Codes	5
Figure 2-6: Valid Analog UPS NC/NCI Code Combinations	5
Figure 4-1: Analog UPS Acceptance Limits (AL) and Immediate Action Limits (IAL)	7
Figure 4-2: Compatible TLP Ranges at the OTC-POT	8
Figure 4-3: Compatible TLP Ranges at the BA Local Switching System	8

## 1. General

**1.01** This technical reference provides the technical specifications associated with the Analog Unbundled Port Services offered by Bell Atlantic in the co-carrier section of some local exchange tariffs.

**1.02** Whenever this technical reference is reissued, the reason(s) for reissue will be provided in this paragraph.

**1.03** Analog Unbundled Port Services (UPS) enable Other Telephone Companies (OTC) that are collocated in a Bell Atlantic (BA) Central Office (CO) to connect to analog switch ports on BA local switching systems. The analog switch ports provide access to the functionality of the switch including supervisory signaling, digit reception and transmission, routing, rating, usage, as well as other line or trunk features.

**1.04** The technical specifications in this document assume that the OTC is collocated in the same CO as the analog UPS. In the future, BA may offer transport services for analog UPS. In that case, the technical specifications associated with the transport service will supersede those in this document where applicable.

## 2. Service Description

**2.01** The service description, terms and conditions, prices, and Universal Service Order Codes (USOCs) for analog UPS are contained in applicable tariffs or contracts.

**2.02** Analog UPS are provided subject to availability on a first-come first-served basis. Special construction charges apply when appropriate facilities are not available.

**2.03** Analog UPS vary according to the type of switch port (interface) and the services desired. This document contains the technical specifications associated with the analog switch port. The services associated with the analog switch port are described in applicable tariffs and other technical references.

**2.04** Analog ports provide a local switch interface that is suitable for the transmission of analog voice grade signals between approximately 300 and 3000 Hz. Analog ports use various methods of dc supervisory signaling to control call processing.

**2.05** The following analog UPS are offered: Basic, Centrex, PBX, and Direct Inward Dialing (DID). The Basic, Centrex, and PBX ports are on the line side of the local switching system and use Loop-Start or Ground-Start signaling. The DID port is on the trunk side of the local switching system and uses Loop Reverse-Battery signaling.

**2.06** Basic, Centrex, PBX, and DID ports consist of a 2-wire analog interface associated with a local switching system and a 2-wire CODF cross-connect between a 2-wire OTC CODF

termination and the CODF termination of the analog port. At each 2-wire interface one conductor is called tip and the other conductor is called ring. A typical analog port configuration is shown in Figure 2-1.

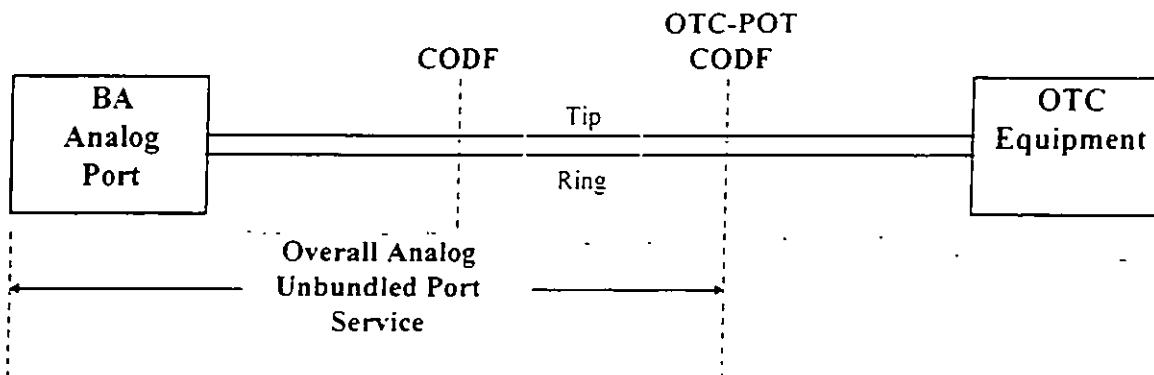


Figure 2-1. Typical Analog Unbundled Port Configuration

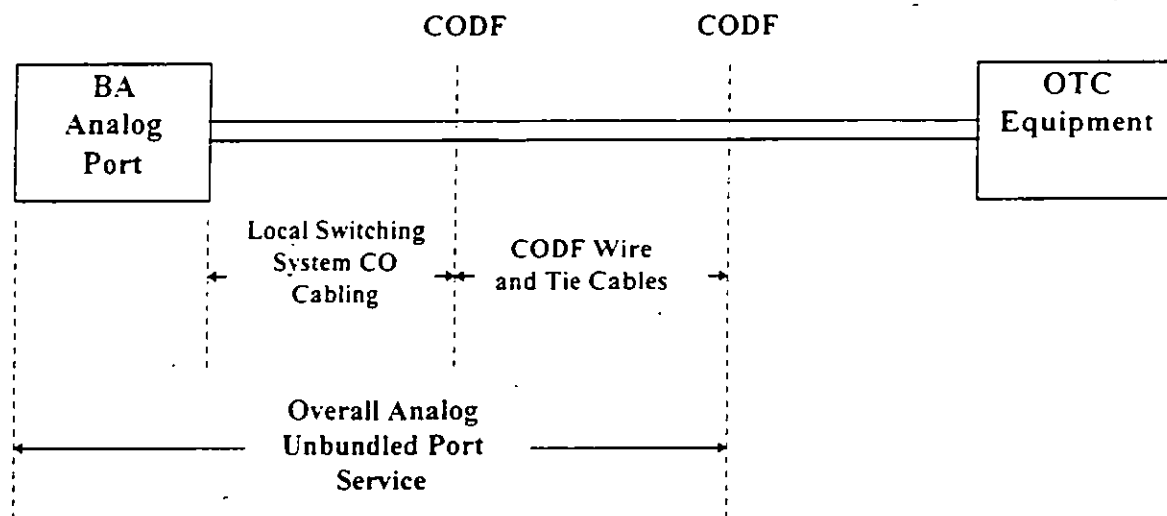
2.07 An analog UPS ordinarily consists of the following elements (see Figure 2-2):

- (1) Central Office Distributing Frame (CODF) wire and tie cable(s) between the CODF termination of the OTC equipment and the CODF termination of the BA analog switch port;
- (2) CO cabling between the CODF and the BA analog switch port; and
- (3) an analog switch port on a BA local switching system that is either:
  - (a) a loop-start line-side port (LSLS);
  - (b) a ground-start line-side port (GSLs); or
  - (c) a loop reverse-battery trunk-side port (LRTS). The LRTS port is either:
    - (I) an LRTS port on the trunk-side of a local switching system; or
    - (II) an LRTS port on a digital channel bank in the same building that has a high capacity connection (such as DSI) to the local switching system.
- (4) Each LSLS or GSLs port has the following basic characteristics and capabilities:
  - (a) an associated telephone number;
  - (b) Dial Pulse (DP) or Dual Tone Multi-Frequency (DTMF) address signaling;
  - (c) access to local calling within the minimum BA-defined local calling area for each rate center;
  - (d) basic intercept;
  - (e) one primary directory listing;
  - (f) PIC1 and PIC2 access;

- (g) access to 911;
- (h) access to call routing, switch usage, and recording capability.

(5) Each LRTS port has the following basic characteristics and capabilities:

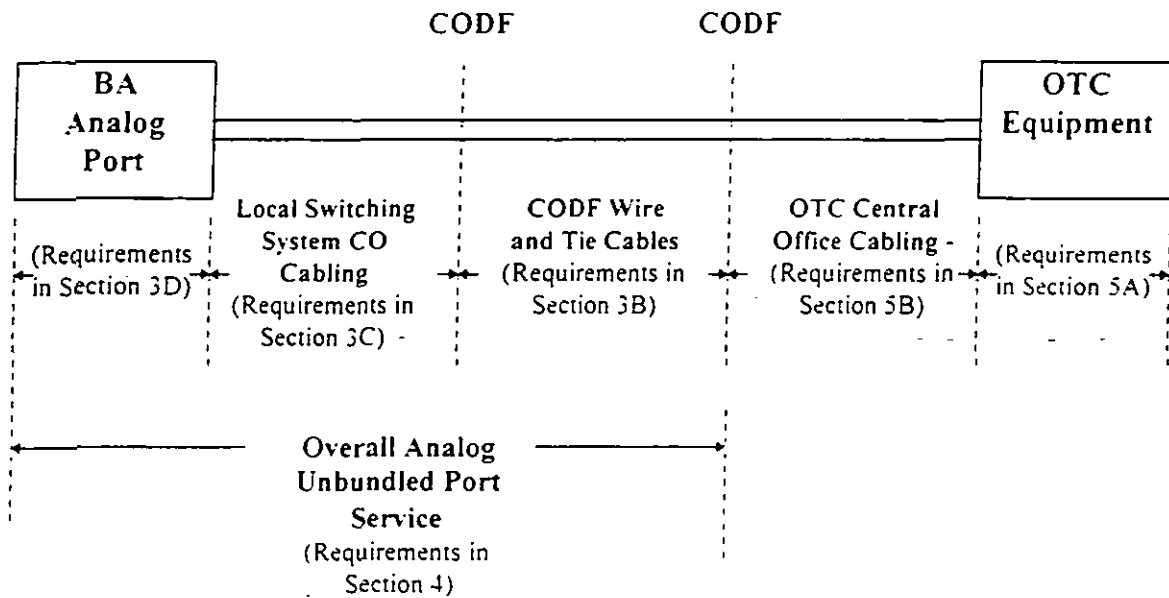
- (a) one way call routing from the BA local switching system to the OTC for associated telephone numbers;
- (b) DP, DTMF, or MF address signaling;
- (c) access to call routing and switch usage capabilities.



**Figure 2-2. Unbundled Port Service Elements**

**2.08** The requirements for the BA unbundled port service elements are provided in Section 3 of this technical reference. The overall service requirements are specified in Section 4. Section 5 provides OTC equipment and cabling specifications. Figure 2-3 shows the requirements associated with unbundled port services.

**2.09** The Basic line-side port is suitable for single line residential or business service. Unless the OTC requests ground-start supervisory signaling or DP address signaling at the time the service is ordered, the Basic port will be provided with loop-start supervisory signaling and DTMF address signaling capabilities. DP address signaling can be used on a port that is arranged for DTMF signaling.



**Figure 2-3. Requirements Associated with Analog Unbundled Port Services**

**2.10** The Centrex port is suitable for Centrex line service. Unless the OTC requests ground-start supervisory signaling or DP address signaling at the time the port is ordered, the Centrex port will be provided with loop-start supervisory signaling and DTMF address signaling capabilities. DP address signaling can be used on a port that is arranged for DTMF signaling.

**2.11** The PBX port is suitable for Private Branch Exchange (PBX) Central Office trunks. Unless the OTC requests loop-start supervisory signaling or DP address signaling at the time the port is ordered, the PBX port will be provided with ground-start supervisory signaling and DTMF address signaling. DP address signaling can be used on a port that is arranged for DTMF signaling.

**2.12** The DID port is suitable for one-way Direct Inward Dialing (DID) trunks. Loop reverse battery is the only supervisory signaling available. Unless the OTC requests DTMF or MF address signaling at the time the port is ordered, the DID port will be provided with DP address signaling.

**2.13** The following list of supplementary features are some of the features that are available on line-side ports where technically feasible. Detailed feature lists by switch port type will be provided by the product manager.

- Additional listings
- Operator services
- Directory assistance
- Call Blocking (customer or OTC activated)
- Caller ID (calling number delivery)
- Speed calling

- 3-Way calling
- Call Waiting
- Call Forwarding (including Call Forwarding Busy and No Answer)
- Early fraud warning
- Hunt group arrangements
- Usage recording and daily usage tapes indicating the to and from number and start and stop time by port
- Simplified Message Desk Interface data link
- Routing options

2.14 All analog UPS services use the SN network channel (NC) code. Additional NC option codes are shown in Figure 2-4.

2.15 Network Channel Interface (NCI) codes describe the type of OTC signaling. Valid analog NCI codes are shown in Figure 2-5.

2.16 Valid analog NC/NCI code combinations are shown in Figure 2-6.

**Figure 2-4: UPS NC Codes**

NC Code	Character 3	Character 4
SN	A (2-wire)	L (line-side port) T (trunk-side port)

**Figure 2-5: UPS NCI Codes (see note)**

NCI Code	Description
02QC3.OOE	Loop-start signaling - Closed End
02QC3.OOC	Ground-start signaling - Closed End
02QC3.RVT	Loop Reverse-Battery Terminating Signaling

Note: NCI codes describe the function performed by the connecting OTC equipment not the function of the unbundled port service. For example, an LSLS port performs the open end function of an access line and connecting OTC equipment performs the closed end function.

**Figure 2-6: Valid analog UPS NC/NCI Code Combinations**

Unbundled Port Service	NC Code	NCI Code
LSLS	SNAL	02QC3.OOE
GSLS	SNAL	02QC3.OOC
LRTS	SNAT	02QC3.RVT

### **3. Service Elements**

#### **A. General**

**3.01** Three elements are always used with analog Unbundled Port Services. They are: Central Office Distributing Frame (CODF) wire and tie cable(s), BA local switching system CO cabling, and a BA local switching system port. The following sections contain the specifications for each of these elements.

#### **B. CODF Wiring and Tie Cable(s)**

**3.02** CODF cross-connect wiring and tie cable(s) are used to link the CODF termination of OTC equipment to the CODF termination of the BA local switching system port.

**3.03** The total combined length of all CODF cross-connect wiring and all CODF-to-CODF tie cables used for analog UPS should be less than 1500 feet.

**3.04** The direct-current resistance of the CODF wiring and tie cable used for analog UPS should be less than 80 ohms. This is equal to 1500 or less feet of 24 gauge cable.

**3.05** The 1kHz loss of the CODF wiring and tie cable used for UPS, when measured between 900 ohm impedances, should be less than .5 dB.

**3.06** The C-message noise measured on the CODF wiring and tie cables used for analog UPS shall be 20 dBmC or less when measured between 900 ohm impedances.

#### **C. Bell Atlantic Local Switching System CO Cabling**

**3.07** The voice grade CO cabling used to terminate BA Local Switching System ports on the CODF shall use twisted-pair conductors.

**3.08** The type, gauge, and length of the BA CODF cabling shall be specified based on this specification and BA equipment vendor requirements. If the specifications in this document differ from the equipment manufacturers specifications, then the more stringent of the two shall be used.

**3.09** The direct-current resistance of the CO cabling between the BA local switching system port and the CODF shall meet the CO cabling requirements in the Bellcore FR-TSY-000064 [1] (i.e., 23 ohms or less). This is equivalent to 275 feet or less of 26 gauge cable, 440 feet or less of 24 gauge cable, and 700 feet or less of 22 gauge cable.

**3.10** The 1kHz loss of the CO cabling between the BA local switching system port and the CODF, when measured between 900 ohm impedances, shall be less than .15 dB.

**3.11** The C-message noise measured on the CO cabling between the BA local switching system port and the CODF shall be 20 dBmC or less.

#### D. Local Switching System Analog Ports

3.12 Bell Atlantic currently offers three different local switching system analog ports. They are: (1) the loop-start line-side (LSLS) port, (2) the ground-start line-side (GSLs) port, and (3) the loop reverse-battery terminating (LRTS) trunk-side port.

3.13 The impedance of the local switching system analog port is based on the type of local switching system. Most BA local switching system ports have a nominal 900 ohms + 2.16uF impedance, however some switching system ports have a nominal impedance of 800 ohms in parallel with 0.05 uF and 100 ohms.

3.14 Line-side analog ports shall provide 20 mA or more of loop current when terminated by a direct-current resistance of between 430 ohms and 1730 ohms.

3.15 The C-message noise measured on the analog port shall be 20 dBmC or less.

3.16 The C-Notched noise measured on the analog port shall be -45 dBmC or less with a -13 dBm0 1004 Hz holding tone.

3.17 Signaling on the LSLS (02QC3.OOE) and GSLs (02QC3.OOC) ports shall conform to the network specifications in ANSI T1.401-1993 [2].

3.18 Signaling on the LRTS (02QC3.RVT) port shall conform to the network specifications in ANSI T1.405-1996 [3].

#### 4. Service Specifications

4.01 The overall end-to-end analog UPS service is from the CODF termination of the OTC equipment (OTC-POT) to the BA local switching system port (See Figure 2-1).

4.02 Analog UPS should meet the limits in Figure 4-1, 4-2, and 4-3 when measured at the BA local switching system test position. Parameters are usually tested in response to trouble reports or when additional testing is purchased.

Figure 4-1: Analog UPS Acceptance Limits (AL) and Immediate Action Limits (IAL)

Parameter	AL	IAL
Loss	< 1.0 dB	> 1.5 dB
Resistance	< 100 ohms	> 100 ohms
C-Message Noise	< 30 dBmC0	> 30 dBmC0
LSLS & GSLs Loop Current	> 20 mA	< 20 mA

4.03 Signaling on the LSLs (02QC3.OOE) and GSLs (02QC3.OOC) ports shall conform to the network specifications in ANSI T1.401-1993 [2]. Signaling on the LRTS (02QC3.RVT) port shall conform to the network specifications in ANSI T1.405-1996 [3].

4.04 Compatible TLP ranges are shown in Figures 4-2 and 4-3.

Figure 4-2: Compatible TLP Ranges at the OTC-POT

Specified NCI Code	OTC Transmit TLP <sup>1</sup>	OTC Receive TLP <sup>2</sup>
02QC3.OOE, 02QC3.OOC	0.0 to -8.0 [0.0]	0.0 to -1.0
02QC3.RVT	-2 to -3.5 [-3.5]	0.0 to -1.0

Figure 4-3: Compatible TLP Ranges at the BA Local Switching System

Specified NCI Code	BA Transmit TLP	BA Receive TLP
02QC3.OOE, 02QC3.OOC	0.0	0.0 to -8.0
02QC3.RVT	0.0	-2 to -4 <sup>3</sup>

## 5. OTC Equipment and CO Cabling Requirements

### A. OTC Equipment Requirements

5.01 Collocated OTC equipment used for interconnection with analog UPS shall meet all of the applicable generic equipment requirements in GR-63-CORE [4] and GR-1089-CORE [5].

5.02 Collocated OTC equipment shall be manufactured in accordance with FCC, NEC, UL, and USDL requirements and orders applicable to Federal, State, and local requirements including, but not limited to, statutes, rules, regulations, orders, or ordinances, or otherwise imposed by law.

Where requirements are not specified in this document, contractual technical requirements, or other applicable documents, the manufacturer's requirements consistent with industry standards shall be met.

<sup>1</sup> The OTC transmit TLP is normally specified by the OTC. When the OTC transmit TLP is not specified, the bracketed [ ] value denotes the default TLP.

<sup>2</sup> The OTC receive TLP will be a function of the BA transmit TLP (0.0) and the total loss of the BA port, BA CO cabling, and BA CODF wiring. The average OTC receive TLP is -0.5 dBm and the level cannot be adjusted.

<sup>3</sup> When the LRTS port is an analog trunk circuit, the BA receive TLP will be a function of the OTC transmit TLP and the total loss of the BA CO cabling, the BA CODF wiring, and the BA LRTS port. The average total loss of the BA CO cabling, BA CODF wiring, and BA port is about 0.5 dB and the BA receive TLP cannot be adjusted by BA. When the LRTS port is on a channel bank that has a high capacity connection to the BA Local Switching System, the BA receive TLP is obtained by Local Switching System translations and is always -4.0.

- 5.03 The open circuit tip-to-ring dc voltage that collocated OTC equipment applies to BA VF cabling shall be less than 80 Vdc.
- 5.04 Collocated OTC equipment shall not deliver more than 2.5 watts of power to any load via BA VF cable.
- 5.05 Collocated OTC load equipment shall not draw more than 100 mA of loop current from LSLS and GSTS ports and shall not deliver more than 100mA of loop current to any LRTS port.
- 5.06 The noise limits for analog UPS are predicated on the OTC equipment having a longitudinal balance of > 60 dB when measured using the methods and equipment specified in ANSI/IEEE 455-1984 [6].
- 5.07 The loss and noise limits for analog UPS are predicated on collocated OTC equipment having a nominal impedance of 900 ohms when measured using the methods and equipment in ANSI/IEEE 743-1995 [7].
- 5.08 The applied power level of any transmitted signal averaged over 3 seconds shall not exceed -12 dBm0.
- 5.09 The signaling characteristics of OTC equipment associated with LSLS and GSLS ports shall conform to the loop-start and ground-start customer installation specifications in ANSI T1.401-1993 [2].
- 5.10 The signaling characteristics of OTC equipment associated with LRTS ports shall conform to the loop reverse battery customer installation specifications in ANSI T1.405-1996 [3].

## **B. OTC CO Cabling Requirements**

- 5.11 The voice grade CO cabling used to terminate OTC equipment on the CODF for interconnection with analog UPS shall use twisted-pair conductors.
- 5.12 The type, gauge, and length of the OTC CODF cabling shall be specified based on this specification and OTC equipment requirements. If the specifications in this document differ from the OTC equipment manufacturers specifications, then the more stringent of the two shall be used.
- 5.13 The direct-current resistance of the CO cabling between the OTC equipment and the CODF shall meet the CO cabling requirements in the Bellcore FR-TSY-000064 [1] (i.e., 23 ohms or less). This is equivalent to 275 feet or less of 26 gauge cable, 440 feet or less of 24 gauge cable, and 700 feet or less of 22 gauge cable.
- 5.14 All CO cabling between OTC equipment and the CODF shall be equipped with connectors at each end. The type of connectors shall be specified by the CO Engineer.

5.15 The 1kHz loss of the CO cabling between the OTC equipment and the CODF, when measured between 900 ohm impedances using the methods and equipment specified in ANSI/IEEE 743-1995 [7], shall be less than .15 dB.

5.16 The C-message noise measured on the CO cabling between the OTC equipment and the CODF, when measured between 900 ohm impedances using the methods and equipment specified in ANSI/IEEE 743-1995 [7], shall be 20 dBmC or less.

## 6. References

### A. Definitions

#### **Central Office (CO)**

A telephone company building which houses equipment and facilities used to provide switched access services.

#### **Central Office Distributing Frame (CODF)**

Framework located in a CO that holds wire cross-connects which are used to interconnect cable terminations for end-user customer loops, switching system ports, and inter-office facilities.

#### **Closed end**

The closed end of an access line is the end of the access line that is not switched. The closed end connects to CPE or OTC equipment that functions as terminal equipment.

#### **C-Message Noise**

The frequency-weighted, short-term average noise within an idle channel. The frequency weighting, called C-message, is used to account for the variations in 500-type telephone set transducer efficiency and end-user annoyance to tones as a function of frequency.

#### **C-Notched Noise**

The C-message frequency-weighted noise on a channel with a holding tone that is removed at the measuring end through a notch (very narrow band) filter.

#### **dBm**

A unit for expression of power level in decibels relative to one milliwatt.

#### **dBm0**

Power level referred to, or measured at, a zero transmission level point (OTLP).

#### **dBm**

A unit used to express noise power relative to one picowatt (-90 dBm).

#### **dBmC**

Noise power measured with C-message weighting expressed in dBm.

**dBrnC0**

Noise power in dBrnC referred to, or measured at, a zero transmission level point (OTLP).

**Decibel (dB)**

The logarithmic unit of signal power ratio most commonly used in telephony. It is used to express the relationship between two signal powers, usually between two acoustic, electric, or optical signals; it is equal to ten times the common logarithm of the ratio of the two signal powers.

**Dial Pulse (DP)**

A type of switched access line address signaling that uses rapid loop open and loop closure signals (pulses) to indicate the digit being dialed. The digits 1 through 9 are represented by the same number of pulses and the digit zero is represented by ten pulses.

**Dual Tone Multi-Frequency (DTMF)**

A type of switched access line address signaling that uses two tones transmitted simultaneously to indicate a digit (0 to 9) or character (\* or #).

**Ground-Start (GS) signaling**

A type of switched access line supervisory signaling in which the network provides a battery source. To initiate a call, CPE or OTC equipment provides a ground on the ring lead. The ring ground causes dc current to flow which the local switching system will detect as a request for service. On terminating calls, CPE or OTC equipment will provide an off-hook loop closure that is recognized as an answer signal.

**Line-side**

That part of a local switching system that interfaces access lines.

**Local switching system**

A system that establishes connections between access lines and connections between access lines and interoffice trunks. Access line ports are located on the line-side of the local switching system and trunk ports are located on the trunk-side of the local switching system.

**Loop reverse-battery signaling**

A type of switched access line supervisory signaling that uses loop-open and loop-closure signals to indicate on-hook and off-hook signals in one direction and normal battery polarity and reverse battery polarity to indicate on-hook and off-hook signals in the other direction. The end of the service that generates loop open and loop closure signals is called the originating end and the other end which generates the normal battery polarity and reverse battery polarity signals is called the terminating end. For LRTS and other DID-type ports, the local switching system is the originating end and the CPE or OTC equipment is the terminating end. The interface code for such applications represents the function performed by the CPE or OTC equipment (02QC3-RVT).

**Loop-Start (LS) signaling**

A type of switched access line signaling in which the network provides a battery source. To initiate and maintain a call, CPE or OTC equipment will provide an off-hook loop closure. The loop

closure causes dc loop current to flow which the local switching system will recognize as a service request. On terminating calls, CPE or OTC equipment will provide an off-hook loop closure that is recognized as an answer signal.

### **Open end**

The open end of an access line is the end of the access line that connects to the local switching system port. The open end can be switched to other line or trunk ports associated with the same local switching system.

### **Other Telephone Company (OTC)**

An organization that provides telecommunications services to the public.

### **Trunk-side**

That part of a local switching system that interfaces interoffice trunks.

### **Unbundled Port**

A physical termination (port) on a switching system that provides access to and from the public switched telephone network.

### **Voice Grade (VG)**

A term used to describe a channel, circuit, facility, or service that is suitable for the transmission of speech, digital or analog data, or facsimile, generally with a frequency range of about 300 to 3000 Hz.

## **B. Acronyms**

AL	acceptance limit
ANSI	American National Standards Institute
BA	Bell Atlantic
CO	central office
CODF	central office distributing frame
CPE	customer premises equipment
DID	Direct Inward Dialing
DP	dial pulse
DS1	digital signal level one
DTMF	dual tone multi-frequency
GS	ground-start
GSLS	ground-start line-side
FCC	Federal Communications Commission
IAL	immediate action limit
IEEE	International Electrical and Electronic Engineers
LRB	loop reverse-battery
LRTS	loop reverse-battery trunk-side
LS	loop-start
LSLS	loop-start line-side

NC	network channel
NCI	network channel interface
NEC	National Electric Code
OTC	Other Telephone Company
PBX	Private Branch Exchange
PIC1	primary interconnect carrier one
PIC2	primary interconnect carrier two
POTS	plain ordinary (analog) telephone service
UL	Underwriter's Laboratory
UPS	Unbundled Port Service
USDL	United States Department of Labor
USOC	Universal Service Order Code
VF	voice frequency
VG	voice grade

## 7. Bibliography

- 1- Technical Reference FR-NWT-000064. LATA Switching Systems Generic Requirements (LSSGR). (Bellcore. 1994).
- 2- American National Standard for Telecommunications- Interface Between Carriers and Customer Installations- Analog Voicegrade Switched Access Lines Using Loop-Start and Ground-Start Signaling. ANSI T1.401-1993.
- 3- American National Standard for Telecommunications- Network-to-Customer Installation Interfaces - Direct-Inward-Dialing Analog Voice grade Switched Access Using Loop Reverse-Battery Signaling. ANSI T1.405-1996.
- 4- Generic Requirements GR-63-CORE. Network Equipment-Building System (NEBS) Requirements: Physical Protection. Issue 1. (Bellcore. October 1995).
- 5- Generic Requirements GR-1089-CORE. Electromagnetic Compatibility and Electrical Safety - Generic Criteria for Network Telecommunications Equipment. Issue 2 (Bellcore. November 1994).
- 6- ANSI/IEEE 455-1984 (R1993). Test Procedure for Measuring Longitudinal Balance of Telephone Equipment Operating in the Voice Band.
- 7- ANSI/IEEE 743- 1995. Standard Methods and Equipment for Measuring the Transmission Characteristics of Analog Voice Frequency Circuits.

**NOTE:** These documents are subject to change; references reflect the most current information available at the time of printing. Readers are advised to check the status and availability of all documents.

**EXHIBIT G**

EXHIBIT G

TR 72585  
Issue 1, April 1997

Bell Atlantic Technical Reference

**Digital Unbundled Port Services  
Technical Specifications**

© 1997 Bell Atlantic Network Services, Inc.  
All Rights Reserved  
Printed in U.S.A.

Bell Atlantic Network Services, Inc.  
Technical Reference

TR 72585  
Issue 1, April 1997

### Notice

This Technical Reference is published by Bell Atlantic to provide a technical description of Digital Unbundled Port Services. To the extent feasible, the description references or duplicates existing published technical references utilized by the industry.

Bell Atlantic reserves the right to revise this technical reference for any reason including, but not limited to, changes in tariffs, laws, or regulations, conformity with updates and changes in standards promulgated by various agencies, utilization of advances in the state of technical arts, or the reflection of changes in the design of any facilities, equipment, techniques, or procedures described or referred to herein. Liability for difficulties arising from technical limitations or changes herein is disclaimed.

Bell Atlantic reserves the right not to offer any or all of these services and to withdraw any or all of them at any future time. In addition, the services described herein are based on available facilities and equipment and may not be universally available.

With respect to services offered pursuant to tariff, however, the terms and conditions of the service offering are determined by the tariff itself and applicable laws and regulations. This reference is intended to be supplemental to the tariffs. In the event of a conflict between the tariffs, laws or regulations and this reference, the tariffs, laws, and regulations shall govern.

For additional copies, please contact:

Bell Atlantic Document and Information Delivery Services  
1310 N. Court House Road  
Arlington, VA 22201  
703-974-5887

For information about the technical specifications in this TR, contact:

Trone Bishop  
410-736-7622  
Fax 410-736-7622

# EXHIBIT G

Bell Atlantic Network Services, Inc.  
Technical Reference

TR 72585  
Issue 1, April 1997

**Bell Atlantic Technical Reference  
Digital Unbundled Port Services  
Technical Specifications**

Contents	Page
1. General	1
2. Service Description	1
A. General	1
B. Basic Rate ISDN (BRI)	3
C. Centrex Basic Rate ISDN (CBRI)	4
D. Reserved for future use	4
E. Primary Rate ISDN (PRI)	4
F. DS1 Message Trunk (DS1MT)	5
G. DS1 Direct Inward Dialing (DS1DID)	5
H. Network Channel and Network Channel Interface Codes	6
3. Service Elements	7
A. General	7
B. CODF Wiring and Tie Cable(s)	8
C. DSX-1 Wiring and Tie Cable(s)	9
D. Bell Atlantic Local Switching System CO Voice Grade Cabling	9
E. Bell Atlantic Local Switching System CO DSX-1 Cabling	10
F. BRI and CBRI Local Switching System Ports	10
G. PRI, DS1MT, and DS1DID Local Switching System Ports	10
4. Service Specifications	10
A. General	10
B. BRI and CBRI	11
C. PRI, DS1MT, and DS1DID	11
5. OTC Equipment and CO Cabling Requirements	13
A. OTC Equipment Requirements	13
B. OTC CO Cabling Requirements	14
C. OTC DSX-1 Cabling Requirements	14
6. References	15
A. Definitions	15
B. Acronyms	17
7. Bibliography	18

Figures	Page
Figure 2-1: Typical BRI or CBRI Unbundled Port Configuration	3
Figure 2-2: Typical PRI, DS1MT, or DS1DID Unbundled Port Configuration	4
Figure 2-3: DUPS NC Codes	7
Figure 2-4: DUPS NCI Codes	7
Figure 2-5: Valid NC/NCI Code Combinations	7
Figure 3-1: BRI and CBRI Unbundled Port Service Elements	8
Figure 3-2: PRI, DS1MT, and DS1DID Unbundled Port Service Elements	9
Figure 4-1: BRI and CBRI Acceptance Limits (AL) and Immediate Action Limits (IAL) for DUPS Ports	11
Figure 4-2: DS1 Performance Objectives	12
Figure 4-3: DS1 Test Limits	12
Figure 4-4: AMI and B8ZS Test Matrix	13

## **1. General**

**1.01** This technical reference provides the technical specifications associated with the Digital Unbundled Port Services offered by Bell Atlantic (BA) in the co-carrier section of some local exchange tariffs or via contract.

**1.02** Whenever this technical reference is reissued, the reason(s) for reissue will be provided in this paragraph.

**1.03** Digital Unbundled Port Services (DUPS) enable Other Telephone Companies (OTC) that are collocated in a BA Central Office (CO) to connect to digital switch ports on BA local switching systems. The digital switch ports provide access to the functionality of the switch including supervisory signaling, digit reception and transmission, routing, rating, usage, as well as other line and trunk features.

**1.04** The technical specifications in this document assume that the OTC is collocated in the same CO as the digital UPS. In the future, BA may offer transport services for DUPS. In that case, the technical specifications associated with the transport service will supersede those in this document where applicable.

## **2. Service Description**

### **A. General**

**2.01** The service description, terms and conditions, prices, and Universal Service Order Codes (USOCs) for DUPS are contained in applicable tariffs or contracts.

**2.02** DUPS are provided subject to availability on a first-come first-served basis. Special construction charges apply when appropriate facilities are not available.

**2.03** DUPS vary according to the type of switch port (interface) and the services desired. This document contains the technical specifications associated with the digital switch ports. The services associated with the digital switch port are described in applicable tariffs and other technical references.

**2.04** Digital ports provide a local switch interface that is suitable for the transmission of digital signals at the rates specified for each port.

**2.05** The following DUPS are currently offered: Basic Rate ISDN (BRI), Centrex Basic Rate ISDN (CBRI), Primary Rate ISDN (PRI), DS1 message trunk interface (DS1MT), and DS1 Direct Inward Dialing (DS1DID). Other port types will be considered upon receipt of a bona-fide request.

**2.06** DUPS ordinarily consists of the following elements:

- (1) (a) For BRI and CBRI: Central Office Distributing Frame (CODF) wire and tie cable(s) between the CODF termination of the OTC transport equipment and the CODF termination of the BA switch port. (b) For PRI, DS1MT, and DS1DID: Digital Signal 1 Cross-Connect (DSX-1) wire and repeatered tie cable between the DSX-1 termination of the OTC transport equipment and the DSX-1 termination of the BA switch port. (In some cases, an electronic digital cross-connect (EDSX) system can be substituted for the DSX-1.)
- (2) CO cabling between the CODF or DSX-1 and the BA Digital switch port; and
- (3) a digital switch port on a BA local switching system that is either:
  - (a) a line-side Basic Rate ISDN or Centrex Basic Rate ISDN interface;
  - (b) a line-side<sup>1</sup> DS1 interface for Primary Rate ISDN; or
  - (c) a trunk-side DS1 interface for Message Trunks, or Direct Inward Dialing trunks.

**2.07** Each DUPS line-side port has the following basic characteristics and capabilities:

- an associated telephone number;
- access to local calling within the minimum BA-defined local calling area for each rate center;
- basic intercept;
- PIC1 and PIC2 (where deployed) access;
- access to 911;
- access to call routing, switch usage, and recording capability.

**2.08** Each DS1DID trunk-side port has the following basic characteristics and capabilities:

- One-way call routing from the BA local switching system to the OTC for associated telephone numbers;
- wink-start address control signal;
- DP, DTMF, or MF address signaling;
- access to call routing and switch usage capabilities.

**2.09** Each DS1MT trunk-side port has the following basic characteristics and capabilities:

- One-way call routing from the BA local switching system to the OTC for associated telephone numbers, or
- One-way call routing from the OTC to the BA local switching system for associated telephone numbers;
- SS7 out-of-band signaling, or

---

<sup>1</sup> Primary Rate ISDN (PRI) services use a DS1 interface (port) on the local switching system. Depending upon the architecture of the local switching system, the port may be on the line-side or the trunk-side of the local switching system. Since the location of the port has no bearing on the functional characteristics of the port, for the purposes of this technical reference a line-side port is assumed.

- wink-start address control signal with MF address signaling; and
- access to call routing and switch usage capabilities.

2.10 The following list of supplementary features are some of the features that are available on line-side ports where technically feasible. Detailed feature lists by switch port type will be provided by the product manager.

- Additional listings
- Operator services
- Directory assistance
- Call Blocking (customer or OTC activated)
- Caller ID (calling number delivery)
- Speed calling
- 3-Way calling
- Call Forwarding (including Call Forwarding Busy and No Answer)
- Hunt group arrangements
- Visual message waiting indicator
- Usage recording and daily usage tapes indicating the to and from number and start and stop time by port

## B. Basic Rate ISDN (BRI)

2.11 BRI service consists of a 2-wire line-side port associated with a local switching system and a 2-wire CODF cross-connect between a 2-wire OTC CODF termination and the BRI CODF termination. At each 2-wire interface one conductor is called tip and the other conductor is called ring. A typical BRI port configuration is shown in Figure 2-1.

2.12 The BRI interface provides Line Termination (LT) functionality and utilizes the Two-Binary One-Quaternary (2B1Q) line code operating at 160 kbps that is described in Bellcore technical reference TR-NWT-000393 [1].

2.13 BRI is available in the 2B + D configuration which provides two B channels and one D channel (for signaling). BRI also supports a maintenance channel (M channel).

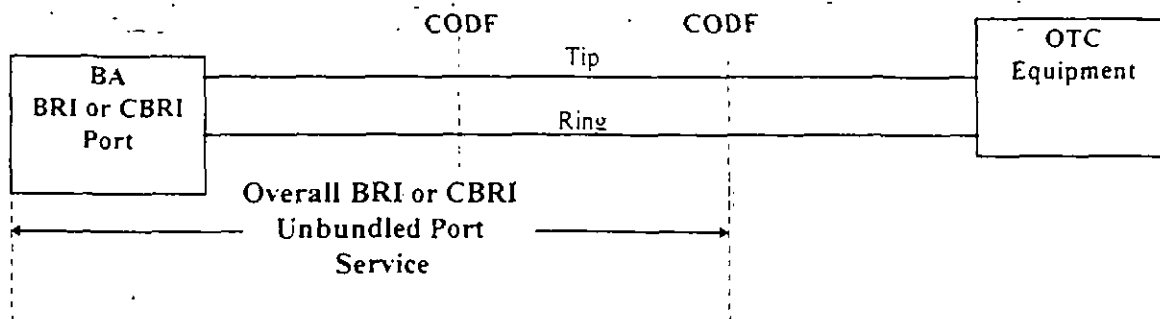


Figure 2-1. Typical BRI or CBRI Unbundled Port Configuration

**C. Centrex Basic Rate ISDN (CBRI)**

2.14 CBRI service consists of a 2-wire line-side port associated with a local switching system and a 2-wire CODF cross-connect between a 2-wire OTC CODF termination and the CTX BRI CODF termination. At each 2-wire interface one conductor is called tip and the other conductor is called ring. A typical CBRI port configuration is shown in Figure 2-1.

2.15 The CBRI interface provides Line Termination (LT) functionality and utilizes the Two-Binary One-Quaternary (2B1Q) line code operating at 160 kbps that is described in Bellcore technical reference TR-NWT-000393 [1].

2.16 CBRI is available in the 2B + D configuration which provides two B channels and one D channel (for signaling). CBRI also supports a maintenance channel (M channel).

**D. Reserved for future use.**

**E. Primary Rate ISDN (PRI)**

2.17 PRI service consists of a 4-wire DSX-1 port associated with a local switching system and the 4-wire DSX-1 cross-connect between the OTC DSX-1 termination and the local switching system DSX-1 termination. A typical PRI port configuration is shown in Figure 2-2.

2.18 PRI ports are DSX-1 interfaces that meet the electrical specifications in ANSI T1.102 [3]. PRI service uses B8ZS line code and the Extended SuperFrame (ESF) Format described in ANSI T1.403 [5].

2.19 PRI is synchronized by the BA local switching system that uses timing that is traceable to a stratum one timing supply. The associated Building Integrated Timing Supply (BITS) meets the 3E specifications in ANSI T1.101 [6].

2.20 PRI is available in several configurations. The 23B + D configuration provides 23 B channels and one D channel (for signaling) that is always assigned to timeslot 24. The 24B configuration provides 24 B channels and signaling is carried over the D-channel of an associated PRI.

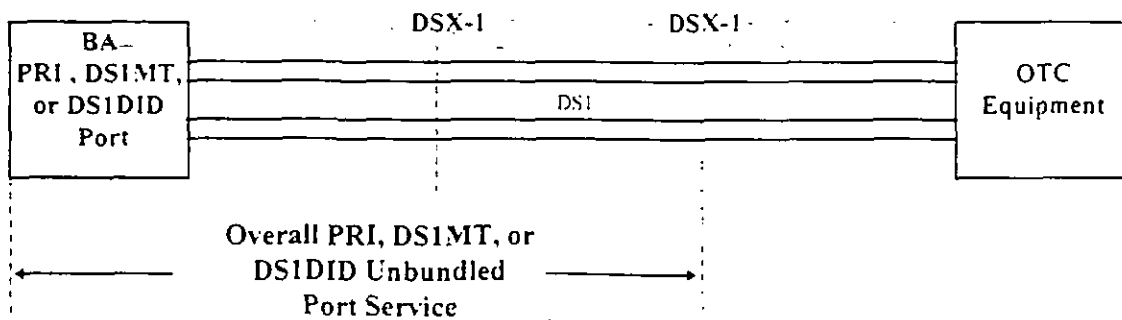


Figure 2-2. Typical PRI, DS1MT, or DS1DID Unbundled Port Configuration

2.21 Circuit Mode 3.1 kHz Audio is assumed for all calls originating from the Public Switched Telephone Network (PSTN). In addition, the analog voice grade signals on each DS0 for such calls are encoded and decoded using the  $\mu$ 255 coding scheme described in ITU-T Recommendation G.711 [4].

#### **F. DS1 Message Trunk (DS1MT)**

2.22 DS1MT service consists of a 4-wire DSX-1 port associated with the trunk-side of a local switching system and the 4-wire DSX-1 cross-connect and repeatered tie cable between the OTC DSX-1 termination and the local switching system DSX termination. A typical DS1MT port configuration is illustrated in Figure 2-2.

2.23 DS1MT ports are DSX-1 interfaces that meet the electrical specifications in ANSI T1.102 [3]. DS1MT ports use the B8ZS line code and the ESF framing format described in ANSI T1.403 [5].

2.24 DS1MT ports are synchronized by the BA local switching system that uses a timing supply that is traceable to a stratum one clock as described in ANSI T1.101 [6]. The Building Integrated Timing Supply (BITS) meets the 3E clock specifications in ANSI T1.101 [6].

2.25 DS1MT ports are channelized into 24 DS0 channels.

2.26 For out-of-band common channel signaling (CCS) applications, each DS0 can carry a 56 kbps or 64 kbps information payload. Signaling System 7 (SS7) signaling conforming to Bellcore GR-905-CORE [7] will be used in such applications.

2.27 For non-CCS/SS7 applications, robbed bit supervisory signaling conforming to ANSI T1.403 [5], wink-start call control protocol, and MF signaling will be used. When robbed bit supervisory signaling is used, each DS0 is limited to a 56 kbps payload.

2.28 Analog voice grade signals on each DS0 are encoded and decoded using the  $\mu$ 255 coding scheme described in ITU-T Recommendation G.711 [4].

#### **G. DS1 Direct Inward Dialing (DS1DID)**

2.29 DS1DID service consists of a 4-wire DSX-1 port associated with the trunk-side of a local switching system and the 4-wire DSX-1 cross-connect and repeatered tie cable between the OTC DSX-1 termination and the local switching system DSX termination. A typical DS1DID port configuration is illustrated in Figure 2-2.

2.30 DS1DID ports are DSX-1 interfaces that meet the electrical specifications in ANSI T1.102 [3]. DS1DID uses the AMI or B8ZS line code and the SF or ESF framing format described in ANSI T1.403 [5].

2.31 DS1DID ports are synchronized by the BA local switching system using a timing supply that is traceable to a stratum one clock as described in ANSI T1.101 [6]. The Building Integrated Timing Supply (BITS) meets the 3E clock specifications in ANSI T1.101 [6].

2.32 DS1DID ports are channelized into twenty-four 56 kbps DS0 channels. Each DS0 channel uses robbed bit supervisory signaling conforming to the loop reverse battery signaling (customer installation provided loop current feed) specifications in ANSI T1.403, Annex C [5].

2.33 Each DID DS0 channel uses the wink-start call control protocol and either dial pulse (DP), Dual Tone Multi-Frequency (DTMF), or Multi-Frequency (MF) address signaling. DP address signaling is transmitted using the robbed bit supervisory signaling. DTMF and MF address signaling is transmitted along with other voiceband frequencies in the DS0 payload after being encoded using the  $\mu$ 255 coding scheme described in ITU-T Recommendation G.711 [4].

2.34 Analog voice grade signals on each DS0 are encoded and decoded using the  $\mu$ 255 coding scheme described in ITU-T Recommendation G.711 [4].

#### **H. Network Channel and Network Channel Interface Codes**

2.35 Network Channel (NC) and Network Channel Interface (NCI) codes are used for communicating channel and interface information. The NC/NCI code set facilitates the identification of network channel requirements and associated interface specifications for services described in tariffs.

2.36 For switched services, the NC code is an encoded representation of the channel that is provided from the OTC Point Of Termination (POT) to the BA CO. By varying the NC code, the customer is allowed to further specify the type of service.

2.37 The most common DUPS NC codes are shown in figure 2-3. The complete set of NC codes for DUPS and other services may be found in SR-STS-000307 [9].

2.38 The NCI code is an encoded representation used to identify five interface elements located at a POT. The five elements reflect the following physical and electrical characteristics: number of physical conductors, protocol, impedance, protocol options, and transmission levels points (if applicable).

2.39 Valid DUPS NCI codes are shown in Figure 2-4.

2.40 Valid Digital NC/NCI code combinations are shown in Figure 2-5. Complete NC/NCI compatibility for DUPS and other services may be found in SR-STS-000323 [10].

Figure 2-3: DUPS NC Codes

Service	NC Code	Character 3	Character 4
BRI & CBRI	SN	A (2-Wire)	L (line side)
Primary Rate ISDN	HC	E (ANSI ESF & B8ZS)	E (PRI 24B)
			I (PRI 23B + D)
DS1 Message Trunk	SD	U	K (EO to EO SS7)
			L (EO to LT SS7)
DS1 DID	SD	-	Y (DID - DTMF)

Figure 2-4: DUPS NCI Codes

NCI Code	Description
02QC5.00S	Basic Rate ISDN
02QC5.00S	Centrex Basic Rate ISDN
04QB9.11	Primary Rate ISDN
04QB9.11	DS1 Message Trunk
04QB9.11	DS1 Direct Inward Dialing

Figure 2-5: Valid NC/NCI Code Combinations

Service	NC Code	NCI Code
Basic Rate ISDN	SNAL	02QC5.00S
Centrex Basic Rate ISDN	SNAL	02QC5.00S
Primary Rate ISDN (24B)	HCEE	04QB9.11
Primary Rate ISDN (23B+D)	HCEI	04QB9.11
DS1 Message Trunk (EO to EO SS7)	SDUK	04QB9.11
DS1 Message Trunk (EO to Tandem SS7)	SDUL	04QB9.11
DS1 Direct Inward Dialing	SD-Y	04QB9.11

### 3. Service Elements

#### A. General

3.01 Three elements are always used with BRI and CBRI Unbundled Port Services. They are: CODF cross-connect wiring and tie cable(s), BA local switching system CO voice frequency (VF) cabling, and a BA local switching system port. Figure 3-1 illustrates the BRI and CBRI Unbundled Port Service elements and identifies the sections of this document that contain the requirements for each of the elements.

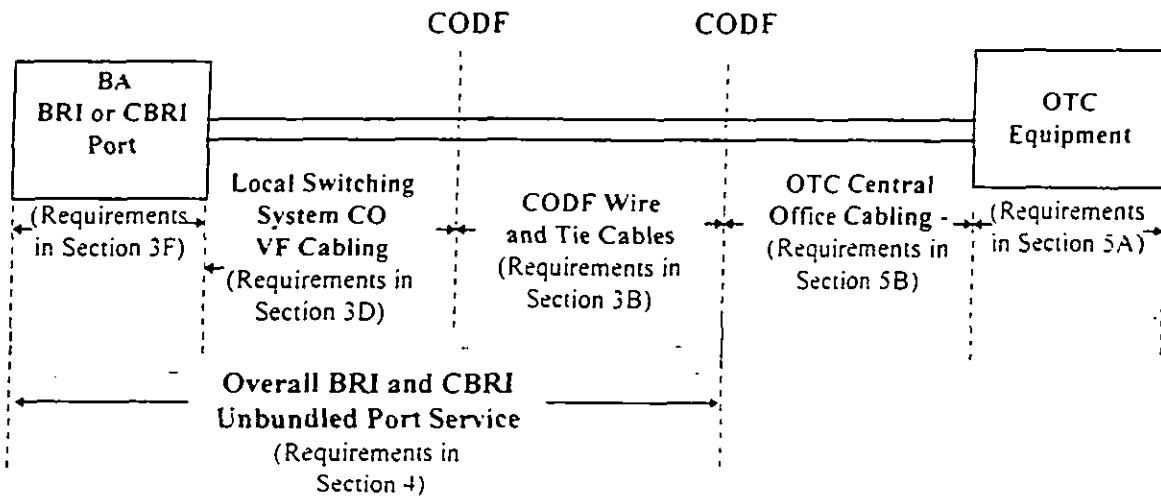


Figure 3-1. BRI and CBRI Unbundled Port Service Elements

3.02 Three elements are always used with the DS1s associated with the PRI, DS1MT, and DS1DID Unbundled Port Services. They are: DSX-1 cross-connect wiring and tie cable(s), BA local switching system CO DSX-1 cabling, and a BA local switching system DS1 port. Figure 3-2 illustrates the PRI, DS1MT, and DS1DID Unbundled Port Service elements and identifies the sections of this document that contain the specifications for each of the elements.

#### B. CODF Wiring and Tie Cable(s)

3.03 CODF cross-connect wiring and tie cable(s) are used to link the CODF termination of OTC transport equipment to the CODF termination of the BA BRI or CBRI port.

3.04 The total combined length of all CODF cross-connect wiring and all CODF-to-CODF tie cables used for DUPPS should be less than 1500 feet.

3.05 The direct-current resistance of the CODF wiring and tie cable used for DUPPS should be less than 80 ohms. This is equal to 1500 or less feet of 24 gauge cable.

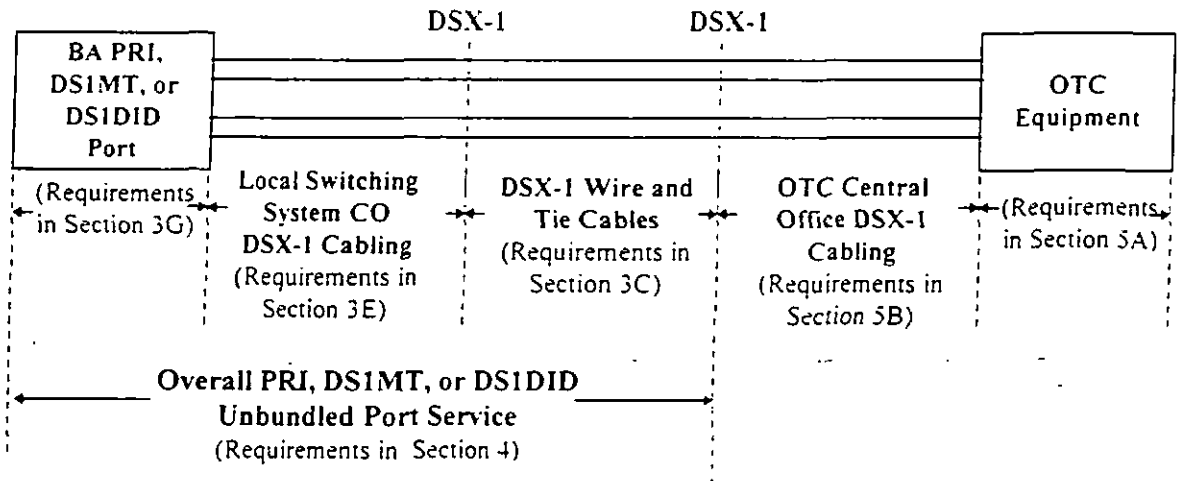


Figure 3-2. PRI, DS1MT, and DS1DID Unbundled Port Service Elements

### C. DSX-1 Wiring and Repeated Tie Cable(s)

3.06 DSX-1 cross-connect wiring and tie cable(s) are used to link the DSX-1 termination of OTC equipment to the DSX-1 termination of the BA PRI, DS1MT, or DS1DID port. In some cases, an electronic digital cross-connect (EDSX) system may be substituted for the DSX-1.

3.07 The total length of all DSX-1 cross-connect wiring should be less than 185 feet.

3.08 When repeated tie cables are used to link OTC DSX-1 terminations to BA DSX-1 terminations, the cabling between the repeaters and the DSX-1 panels shall be built-out in each direction of transmission such that the overall cabling and build-out is the equivalent of 655 feet of 22 gauge ABAM cable.

### D. Bell Atlantic Local Switching System CO Voice Grade Cabling

3.09 The voice-grade CO cabling used to terminate BRI or CBRI local switching system ports on the CODF shall use twisted-pair conductors.

3.10 The type, gauge, and length of the BA CODF cabling shall be specified based on this specification and BA equipment vendor requirements. If the specifications in this document differ from the equipment manufacturers specifications, then the more stringent of the two shall be used.

3.11 The direct-current resistance of the CO cabling between the BA local switching system port and the CODF shall meet the CO cabling requirements in the Bellcore FR-TSY-000064 [11] (i.e., 23 ohms or less). This is equivalent to 275 feet or less of 26 gauge cable, 440 feet or less of 24 gauge cable, and 700 feet or less of 22 gauge cable.

**E. Bell Atlantic Local Switching System CO DSX-1 Cabling Requirements**

**3.12** BA cabling between the Local Switching System and the DSX-1 panels shall be built-out in each direction of transmission such that the overall cabling and build-out is the equivalent of 655 feet of 22 gauge ABAM cable.

**F. BRI and CBRI Local Switching System Ports**

**3.13** The BRI and CBRI line-side ports shall conform to the LT specifications in TR-NWT-000393 [1] and the network specifications in ANSI T1.601-1993 [12].

**G. PRI, DS1MT, and DS1DID Local Switching System Ports**

**3.14** The PRI port shall conform to the DSX-1 specifications in ANSI T1.102 [3], the B8ZS and ESF requirements in ANSI T1.403 [5], the network requirements in ANSI T1.408 [13], the timing requirements in ANSI T1.101 [6], and (for PSTN calls) the  $\mu$ 255 coding scheme in ITU-T Recommendation G.711 [4].

**3.15** The DS1MT port shall conform to the DSX-1 specifications in ANSI T1.102 [3], the B8ZS and ESF requirements in ANSI T1.403 [5] and the  $\mu$ 255 coding scheme in ITU-T Recommendation G.711 [4]. In SS7 applications, the DS1MT shall conform to the specifications in GR-905-CORE. In MF applications, the DS1MT shall conform to the robbed-bit signaling specifications in ANSI T1.403 Annex C [5] and the MF signaling requirements in FR-NWT-000064 [11].

**3.16** The DS1DID port shall conform to the DSX-1 specifications in ANSI T1.102 [3], the AMI or B8ZS and SF or ESF requirements in ANSI T1.403 [5], the robbed-bit signaling specifications in ANSI T1.403 Annex C [5], the  $\mu$ 255 coding scheme in ITU-T Recommendation G.711 [4], and the DP, DTMF, or MF signaling requirements in FR-NWT-000064 [11].

**4. Service Specifications****A. General**

**4.01** The overall end-to-end DUPS service is from the CODF or DSX-1 termination of the OTC equipment to the BA local switching system port.

**4.02** DUPS should meet the limits of this section when measured at the BA local switching system port. Parameters are usually tested in response to trouble reports or when additional testing is purchased.

**B. BRI and CBRI**

4.03 The overall end-to-end BRI or CBRI service is from the CODF termination of the OTC equipment to the local switching system port (see figure 2-1).

4.04 BRI and CBRI Acceptance Limits (AL) and Immediate Action Limits (IAL) are shown in Table 4-1.

4.05 BRI and CBRI services shall meet the LT specifications in TR-NWT-000393 [1] and the network specifications in ANSI T1.601-1993 [12].

**Table 4-1: BRI and CBRI  
Acceptance Limits (AL) and Immediate Action Limits (IAL)**

Parameter	AL	IAL
40 kHz loss	< 6.0 dB	> 6.0 dB
Resistance	< 130 ohms	> 130 ohms
Leakage	> 5 Megaohms	< 5 Megaohms

**C. PRI, DS1MT, and DS1DID**

4.06 The overall end-to-end PRI, DS1MT, and DS1DID service is from the DSX-1 termination of the OTC equipment to the digital port on the local switching system.

4.07 PRI service shall meet the B8ZS and ESF specifications in ANSI T1.403 [5], the network specifications in ANSI T1.408 [13], and the 3E timing requirements in ANSI T1.101 [6].

4.08 DS1MT service shall meet the B8ZS and ESF specifications in ANSI T1.403 [5]. If SS7 signaling is used, it shall conform to the specifications in GR-905-CORE [7] and BA 905 [8]. If MF signaling is used, it shall conform to the MF requirements in FR-NWT-000064 [11] and the robbed-bit signaling specifications in ANSI T1.403 Annex C [5].

4.09 DS1DID service shall meet the AMI or B8ZS and SF or ESF specifications in ANSI T1.403 [5]. The robbed-bit signaling specifications in ANSI T1.403 Annex C [5], and the DP, DTMF, or MF signaling requirements in FR-NWT-000064 [11].

4.10 The PRI, DS1MT, and DS1DID services consist of one DS1. The electrical signals of each DS1 at the OTC POT shall meet the DSX-1 specifications in ANSI T1.102 [3].

4.11 Accuracy and availability performance objectives for each PRI, DS1MT, and DS1DID are shown in Figure 4-2. DS1 performance test limits are shown in Figure 4-3.

**4.12** Availability is a measure of the relative amount of time that a service is "usable" by the customer. Unavailability begins when the Bit Error Ratio (BER) in each second is worse than  $1 \times 10^{-3}$  for a period of 10 consecutive seconds. The DS1 objective is 99.925 percent availability in any twelve consecutive months. Availability equals the total time minus the outage time divided by the total time.

**4.13** Accuracy denotes the error performance and is usually specified in terms of errored seconds (ES), or conversely, error-free seconds (EFS). EFS are the primary measure of error performance for DS1s. An EFS is any second that an error does not occur.

**4.14** A Severely Errored Second (SES) is any one second interval that has a BER of less than (worse than)  $1 \times 10^{-3}$ .

**4.15** Acceptance and maintenance tests for DS1s should be performed with a Quasi-Random Signal Source (QRSS), on an OTC-POT to local switching system basis, using the Errored Second and Severely Errored Second performance parameters in Figure 4-3.

**4.16** Other tests may be performed in response to trouble reports or when additional testing is purchased. The All Ones, 3/24, and 1/8 patterns are acceptable diagnostic stress tests. The pattern sensitivity test criteria associated with these patterns is provided in Figure 4-4.

**4.17** If errors are detected using the QRSS or 1/8 patterns, it is recommended that the DS1 line code options (AMI/B8ZS) be verified using the procedures outlined in the Bell Atlantic Network Services Reference Manual Series 72710 & NS6050 and the test criteria in Figure 4-4. These tests make use of the Framed 3/24 and Framed All Zeros patterns.

**Figure 4-2: DS1 Performance Objectives**

Parameter	Objective
Accuracy	0.25 % errored seconds long-term (30 days or more)
Availability	99.925 % per year

**Figure 4-3: DS1 Acceptance and Maintenance Test Limits<sup>2</sup>**

Test Duration	Errored Seconds	Severely Errored Seconds
15 min	0	0
30 min	3	0
45 min	5	2
24 hours	150	7

<sup>2</sup> While some of the entries in this table are "0", it should be noted that an isolated error event is not necessarily indicative of a service affecting problem.

Figure 4-4: Pattern sensitivity test criteria (see notes 1 and 2)

TEST PATTERN (see note 3)	TEST DURATION	ACCEPTANCE LIMIT
All Ones	5 minutes	0
3/24 (AMI only)	5 minutes	0
1/8	5 minutes	0
Framed All Zeros (4) (B8ZS only)	30 seconds	(see note 5)

## Notes:

- (1) Test patterns should be framed.
- (2) One retest is allowed if the initial test fails.
- (3) If compatible test equipment is not available to perform these tests, loopback testing should be utilized.
- (4) WARNING: If used with the DS1 SF framing format, zeros will occur in time slot 2 of every octet (channel). Terminal equipment will display a false Remote Alarm Indication (a.k.a., yellow alarm). In addition, the use of the framed all-zeros pattern through some types of DS3 equipment may cause DS1 failure if the equipment is not properly optioned for B8ZS.
- (5) As an equipment option check, failure will typically be seen as large error counts. Very low counts (e.g., 1 or 2 errors) are not indicative of an optioning problem.

## 5. OTC Equipment and CO Cabling Requirements

### A. OTC Equipment Requirements

5.01 Collocated OTC equipment shall meet all of the applicable generic equipment requirements in Bellcore GR-63-CORE [14] and GR-1089-CORE [15].

5.02 Collocated OTC equipment shall be manufactured in accordance with FCC, NEC, UL, and USDL requirements and orders applicable to Federal, State, and local requirements including, but not limited to, statutes, rules, regulations, orders, or ordinances, or otherwise imposed by law. Where requirements are not specified in this document, contractual technical requirements, or other applicable documents, the manufacturer's requirements consistent with industry standards shall be met.

5.03 The open circuit tip-to-ring dc voltage that collocated OTC equipment applies to BA VF cabling shall be less than 80 Vdc.

5.04 Collocated OTC equipment shall not deliver more than 2.5 watts of power to any load via BA VF cable.

**5.05** Collocated OTC equipment shall not deliver more than 100 mA of loop current to any load via BA VF cable.

**5.06** OTC equipment connecting to BRI and CBRI ports shall conform to the NT specifications in TR-NWT-000393 [1] and the customer installation specifications in ANSI T1.601-1993 [12].

**5.07** OTC equipment connecting to PRI ports shall conform to the DSX-1 specifications in ANSI T1.102 [3], the B8ZS and ESF specifications in ANSI T1.403 [5], the customer installation requirements in ANSI T1.408 [13], the timing requirements in ANSI T1.101 [6], and the  $\mu$ 255 coding scheme in ITU-T Recommendation G.711 [4].

**5.08** OTC equipment connecting to DS1MT ports shall conform to the DSX-1 specifications in ANSI T1.102 [3], the B8ZS and ESF specifications in ANSI T1.403 [5], and the  $\mu$ 255 coding scheme in ITU-T Recommendation G.711 [4]. For SS7 applications, OTC equipment shall also conform to the specifications in GR-905-CORE [7] and BA 905 [8]. For MF applications, OTC equipment shall also conform to the robbed-bit signaling specifications in ANSI T1.403 Annex C [5] and the MF signaling requirements in FR-NWT-000064 [11].

**5.09** OTC equipment connecting to the DS1DID port shall conform to the DSX-1 specifications in ANSI T1.102 [3], the AMI or B8ZS and SF or ESF specifications in ANSI T1.403 [5], the robbed-bit signaling specifications in ANSI T1.403 Annex C [5], and the  $\mu$ 255 coding scheme in ITU-T Recommendation G.711 [4], and the DP, DTMF, or MF signaling requirements in FR-NWT-000064 [11].

#### **B. OTC CO VF Cabling Requirements**

**5.10** The voice-grade CO cabling used to terminate OTC equipment on the CODF for interconnection with BRI or CBRI port services shall use twisted-pair conductors.

**5.11** The type, gauge, and length of the OTC CODF cabling shall be specified based on this specification and OTC equipment requirements. If the specifications in this document differ from the OTC equipment manufacturers specifications, then the more stringent of the two shall be used.

**5.12** The direct-current resistance of the CO cabling between the OTC equipment and the CODF shall meet the CO cabling requirements in the Bellcore FR-TSY-000064 [11] (i.e., 23 ohms or less). This is equivalent to 275 feet or less of 26 gauge cable, 440 feet or less of 24 gauge cable, and 700 feet or less of 22 gauge cable.

#### **C. OTC DSX-1 Cabling Requirements**

**5.13** OTC DSX-1 cabling and build-out in each direction of transmission shall be the equivalent of 655 feet of 22 gauge ABAM cable.

## 6. References

### A. Definitions

#### **Acceptance Limit (AL)**

The maximum margin, value, or deviation that is allowed at service turnup or customer acceptance.

#### **Alternate Mark Inversion (AMI)**

A DS1 line code that does not perform zero code suppression and is therefore transparent to an all zeros byte.

#### **Basic Rate ISDN (BRI)**

Basic Rate ISDN is a 2-wire line-side local switching system port that uses the two-bit one-quaternary line code at a 160 kilobit per second rate to transport overhead and up to two B channels and one D channel.

#### **B Channel**

The B channel, or bearer channel, is a 64 kbps channel used for information transfer between users.

#### **Bipolar Eight Zero Substitution (B8ZS)**

A DS1 line code that performs zero code suppression by replacing an all zeros byte with a special pattern of ones and zeros that contains two consecutive bipolar violations.

#### **Bit Seven (BIT7)**

A TR08 DS1 line code that performs zero code suppression by placing a one in bit 7 of an all zeros byte.

#### **Central Office (CO)**

A telephone company building which houses equipment and facilities used to provide switched access services.

#### **Central Office Distributing Frame (CODF)**

Framework located in a CO that holds wire cross-connects which are used to interconnect cable terminations for end-user customer loops, switching system ports, and inter-office facilities.

#### **Channel**

An electrical, or photonic communications path between two or more points of transmission.

#### **D Channel**

The D channel is a packet-switched channel that carries signaling and control for B channels. In BRI applications, it can also support customer packet data traffic at speeds up to 9.6 kilobits per second.

**DS1 Message Trunk (DS1MT)**

A digital trunk-side port of a local switching system that operates at 1.544 Mbps and is channelized to provide twenty-four 64 kbps or 56 kbps trunks for the message telecommunications network.

**Digital Unbundled Port Services (DUPS)**

A service, not bundled with a loop or transport facility, that provides digital access to the functionality of a local switching system.

**Extended SuperFrame (ESF)**

A type of DS1 framing format that utilizes the framing bit of twenty-four consecutive frames to provide a 2 kbps framing pattern sequence, a 4 kbps data link, and a 2 kbps cyclic redundancy check channel.

**Immediate Action Limit (IAL)**

The bound of acceptable performance and the threshold beyond which BA will accept a customer's trouble report and take immediate corrective action.

**Integrated Services Digital Network (ISDN)**

ISDN describes the end-to-end digital telecommunications network architecture which provides for the simultaneous access, transmission, and switching of voice, data, and image services. These functions are provided via channelized transport facilities over a limited number of standard user-network interfaces.

**Line Termination (LT)**

Equipment that terminates a BRI or Centrex BRI digital subscriber line on the network side of the network to customer (or OTC) interface.

**Maintenance Limit**

The maximum margin, value, or deviation associated with normal in-service performance.

**Network Termination (NT)**

Equipment that terminates a BRI or CTX BRI digital subscriber line on the customer (or OTC) side of the network to customer (or OTC) interface.

**Other Telephone Company (OTC)**

The term "Other Telephone Company" (OTC) denotes any individual, partnership, association, joint-stock company, trust, governmental entity, or corporation engaged for hire in intrastate exchange communication by wire, fiber, or radio.

**Point Of Termination (POT)**

The point of demarcation at which the BA's responsibility for the provision of services ends.

**Protocol Code**

A component of an interface code that is readily associated with the basic electrical function of the interface.

**Primary Rate ISDN (PRI)**

PRI is a 4-wire 1.544 Mbps (DS1) local switching system port that uses the B8ZS line code and the ESF framing format. PRI is available in a twenty-three B channel plus one D channel (23B + D) configuration or a twenty-four B channel (24B) configuration.

**SuperFrame (SF)**

A type of DS1 framing format that utilizes the framing bit of twelve consecutive frames to provide terminal framing and signaling framing.

**Two Binary, One Quaternary (2B1Q)**

A line code used for BRI and Centrex BRI where each two bits of the binary data stream are combined into a single four-level pulse amplitude modulation signal.

**Unbundled Port**

An interface (port) on a local switching system, that is not bundled with a loop or transport facility, that provides access to and from the public switched telephone network and the functionality of the local switching system.

**Voice-Grade (VG)**

A term used to describe a channel, circuit, facility, or service that is suitable for the transmission of speech, digital or Digital data, or facsimile, generally with a frequency range of about 300 to 3000 Hz.

**B. Acronyms**

ABAM	Cable Type
AL	Acceptance Limit
ANSI	American National Standards Institute
BA	Bell Atlantic
BRI	Basic Rate ISDN
B8ZS	Bipolar Eight Zero Substitution
OTC	Other Telephone Company
CO	Central Office
CODF	Central Office Distributing Frame
DID	Direct Inward Dialing
DSX-1	Digital Signal Cross-Connect One
DS1	Digital Signal One (1.544 Mbps)
DS1DID	DS1 Direct Inward Dialing
DS1MT	DS1 Message Trunk
DUPS	Digital Unbundled Port Services
ESF	Extended Superframe Format
FCC	Federal Communications Commission
IAL	Immediate Action Limit
IDLC	Integrated Digital Loop Carrier
IEEE	International Electrical and Electronic Engineers

LT	Line Termination
NC	Network Channel
NCI	Network Channel Interface
NEC	National Electric Code
POT	Point Of Termination
POTS	Plain Ordinary (analog) Telephone Service
RBS	Robbed-Bit Signaling
SF	Superframe Format
TR08	Technical Reference TR-NWT-000008
UL	Underwriter's Laboratory
USDL	United States Department of Labor
USOC	Universal Service Order Code
VF	Voice Frequency
VG	Voice Grade
2B1Q	Two-Bit One-Quaternary

## 7. Bibliography

- 1- Technical Reference TR-NWT-000393. Generic Requirements for ISDN Basic Access Digital Subscriber Lines. Issue 2. (Bellcore, April 1991).
- 2- Technical Reference TR-TSY-000008. Digital interface Between the SLC 96 Digital Loop Carrier System And A Local Digital Switch. Issue 2. (Bellcore, August 1987).
- 3- American National Standard for Telecommunications- Digital Hierarchy - Electrical Interfaces. ANSI T1.102-1993.
- 4- ITU-T Recommendation G.711. Pulse Code Modulation (PCM) of Voice Frequencies. Blue Book Fasc. III.4. (ITU-TSS, 1988).
- 5- American National Standard for Telecommunications- Network-to-Customer Installation - DS1 Metallic Interface. ANSI T1.403-1995.
- 6- American National Standard for Telecommunications- Synchronization Interface Standards for Digital Networks. ANSI T1.101-1994.
- 7- Generic Requirements GR-905-CORE. Common Channel Signaling Network Interface Specification (CCSNIS) Supporting Network Interconnection. Message Transfer Part (MTP), and Integrated Services Digital Network User Part (ISDNUP). Issue 2. (Bellcore, December 1996).
- 8- BA905. Bell Atlantic Supplement Common Channel Signaling Network Interface Specification.

9- Special Report SR-ST5-000307, Issue 3. *Industry Support Interface (ISI): NC/NCI Code Dictionary*. Bellcore. April 1992.

10- Special Report SR-ST5-000323. *NC/NCI Compatibility Guide*. Issue 4. (Bellcore. May 1994).

11- Technical Reference FR-NWT-000064. LATA Switching Systems Generic Requirements (LSSGR). (Bellcore. 1994).

12- American National Standard for Telecommunications- ISDN Basic Access Interface for use on Metallic Loops for Application at the Network Side of NT, Layer 1 Specification. ANSI T1.601-1992.

13- American National Standard for Telecommunications- ISDN Primary Rate - Customer Installation Metallic Interfaces - Layer 1 Specification. ANSI T1.408 -1990.

14- Generic Requirements GR-63-CORE. Network Equipment-Building System (NEBS) Requirements: Physical Protection. Issue 2. (Bellcore. October 1995).

15- Generic Requirements GR-1089-CORE. Electromagnetic Compatibility and Electrical Safety - Generic Criteria for Network Telecommunications Equipment. Issue 1, Rev 1. (Bellcore. November 1996).

**NOTE:** These documents are subject to change. References reflect the most current information available at the time of printing. Readers are advised to check the status and availability of all documents.

**EXHIBIT H**

## EXHIBIT H

### INTRALATA TELECOMMUNICATIONS SERVICES SETTLEMENT

This IntraLATA Telecommunications Services Settlement Agreement is made this \_\_\_ of \_\_\_\_\_, 1996, by and between Bell Atlantic - Pennsylvania, Inc. ("BA"), a Pennsylvania corporation with offices at \_\_\_\_\_, and \_\_\_\_\_ ("CLEC"), a \_\_\_\_\_ corporation with offices at \_\_\_\_\_.

#### SECTION I

#### SCOPE

This Agreement sets forth the terms and conditions for the following:

(a) administering and processing messages in the intraLATA Toll Originating Responsibility Plan (ITORP); and

(b) the settlement of compensation for the following telecommunications traffic within a BA LATA:

(1) intrastate and interstate intraLATA traffic terminated to CLEC and originated by an Independent Telephone Company or wireless carriers that transits the facilities of BA within a BA LATA, including Message Telecommunications Service and Local Exchange Service (the "ITORP Transit Service Traffic");

(2) intrastate and interstate intraLATA Message Telecommunications Service and Local Exchange Service traffic which originates from a Certified Local Exchange Carrier or CLEC, transits BA's network and terminates to CLEC, or a wireless carrier or an Exchange Carrier other than BA, which traffic is subject to a Meet-Point Billing arrangement (the "Meet-Point Transit Service Traffic");

(3) intraLATA 800/888 Service Traffic; and

(4) intraLATA Alternately Billed Calls billed to a line-based telephone number within the state where the call is originated.

By way of clarification, this Agreement does not cover the following: (x) traffic that does not use BA facilities (except intraLATA 800/888 Service Traffic); (y) interLATA traffic; and (z)

any statewide services (whether interLATA or intraLATA) provided entirely by an Interexchange Carrier such as statewide WATS.

## SECTION II

### DEFINITIONS

For purposes of this Agreement, the terms set forth below shall have the following meaning:

- A. 800/888 Number Database shall mean the call management service database that provides POTS telephone number translation or routing information or both for a given 800/888 telephone number.
- B. 800/888 Number Query shall mean routing information obtained from an 800/888 Number Database for originating 800/888 calls.
- C. 800/888 Service Traffic means a toll free call originating with the Originating Company and billed to the Terminating Company's end user. 800/888 service MOUs are recorded by the Originating Company and provided to the Terminating Company so that it can bill its end user(s).
- D. Access Tandem shall mean a switching entity that is used to connect and switch trunk circuits between and among End Offices and between and among End Office switches and carriers' aggregation points, points of termination, or points of presence, which entity has billing and recording capabilities that are used to provide switched Exchange Access services.
- E. Alternately Billed Calls shall mean all intraLATA land-line Collect Calls, Calling Card Calls and Third-Number Calls that originate and terminate in the Commonwealth of Pennsylvania and are billed to a line-based number within the jurisdiction of the Commonwealth of Pennsylvania serviced by the Billing Company. Alternately Billed Calls are identified in ITORP reports as "Received Collect/Sent Collect Calls".
- F. Billing Company shall mean the Local Exchange Carrier that provides the local telephone exchange service for the number to which an Alternately Billed Call is to be billed.
- G. Calling Card Call shall mean a call billed to a pre-assigned end user line-based billing number, including calls dialed or serviced by an operator system.
- H. Carrier Common Line Facilities means the facilities from the end user's premises to the End Office used to originate or terminate Transit Service Traffic and 800/888 Service Traffic. Such carrier common line facilities are as specified in each party's Exchange Access Tariff.

- I. Category 01 shall mean the EMR/billing record for usage charges applicable to the terminating 800/888 number service subscriber.
- J. Category 08 shall mean the EMR/copy record containing the information necessary for CLEC to bill/settle intraLATA terminating charges with other carriers.
- K. Category 11 shall mean the EMR/access record containing information necessary for CLEC to bill/settle interexchange access charges.
- L. CCS/SS7 shall mean the Common Channel Signaling/Signaling System 7, which refers to the packet-switched communication, out-of-band signaling architecture that allows signaling and voice to be carried on separate facilities, and thus is a signaling network that is common to many voice channels. There are two modes of operation defined for CCS/SS7: database query mode, and trunk signaling mode.
- M. Centralized Message Distribution System (CMD5) shall mean the message processing system which handles the distribution of Message Records from the Earning Company to the Billing Company.
- N. Competitive Local Exchange Carrier (CLEC) means a carrier certified by the Pennsylvania Public Utility Commission to provide Local Exchange or Exchange Access services within the BA operating territory in that state.
- O. Clearing House shall mean the monthly function performed by BA for a fee to collect funds owed by one Exchange Carrier or wireless carrier and the distribution of those funds to other Exchange Carriers or wireless carriers. These Clearing House funds include but are not limited to amounts owed for terminating traffic and Alternately Billed Calls. The Clearing House function will include funds due from and payable to each Independent Telephone Company, Certified Local Exchange Carrier and wireless carrier that contracts with BA to provide the Clearing House function and will not include any funds due from or payable to BA.
- P. Collect Call shall mean a non-sent paid call that is billed to the number receiving the call, including calls dialed or serviced by an operator system.
- Q. Discounted Toll Services means services in which the originating end user is charged a rate less than would normally be assessed for calls placed to similar points outside the end user's local calling area.
- R. Earning Company shall mean the Local Exchange Carrier that provides local telephone exchange service for the number from which an Alternately Billed Call originates.

- S. End Office means the end office switching and end user line termination facilities used to originate or terminate switched intraLATA telecommunications services traffic.
- T. Exchange means a geographic area established for the furnishing of local telephone service under a local tariff. It usually embraces a city, town or village and its environs. It consists of one or more wire centers together with the associated facilities used in furnishing communications service within the area.
- U. Exchange Access means the facilities and services used for the purpose of originating or terminating interexchange telecommunications in accordance with the schedule of charges, regulations and conditions specified in lawfully established Exchange Access Tariffs.
- V. Exchange Access Tariffs means the tariffs lawfully established with the Federal Communications Commission or the by an Exchange Carrier for the provision of Exchange Access facilities and services.
- W. Exchange Carrier shall mean a carrier licensed to provide telecommunications services between points located in the same Exchange area.
- X. Exchange Message Record (EMR) shall mean the standard used for exchange of telecommunications message information among Local Exchange Carriers for billable, non-billable, sample, settlement and study data. EMR format is described in BR-010-200-010 CRIS Exchange Message Record, a Bell Communications Research, Inc. document that defines industry standards for Exchange Message Records, which is hereby incorporated by reference.
- Y. ITORP Transit Service Traffic shall have the meaning set forth in Section I above titled "Scope".
- Z. Independent Telephone Company shall mean any entity other than BA which, with respect to its operations within the Commonwealth of Pennsylvania, is an incumbent Local Exchange Carrier.
- AA. Inter-Company Net Billing Statement shall mean the separate monthly financial reports issued by BA to the Exchange Carriers for settlement of amounts owed.
- BB. IntraLATA Toll Originating Responsibility Plan (ITORP) shall mean the information system owned and administered by BA for calculating charges between BA and Local Exchange Carriers for termination of intraLATA calls.
- CC. Interexchange Carrier (IXC) means a carrier that provides, directly or indirectly, interLATA or intraLATA telephone toll services.

- DD. Local Access and Transport Area (LATA) means a contiguous geographic area: (1) established before the date of enactment of the Telecommunications Act of 1996 by BA such that no Exchange area includes points within more than one metropolitan statistical area, consolidated metropolitan statistical area, or state, except as expressly permitted under the AT&T Consent Decree; or (2) established or modified by BA after such date of enactment and approved by the Federal Communications Commission.
- EE. Local Exchange Carrier (LEC) means any person that is engaged in the provision of Local Exchange Service or Exchange Access. Such term does not include a person insofar as such person is engaged in the provision of a commercial mobile service under Section 332 (c) of the Telecommunications Act of 1996, except to the extent that the Federal Communications Commission finds that such service should be included in the definition of such term.
- FF. Local Exchange Service means telecommunications services provided between points located in the same LATA.
- GG. Meet-Point Billing (MPB) means an arrangement whereby two or more LECs jointly provide to a third party the transport element of a switched access Local Exchange Service to one of the LECs' End Office switches, with each LEC receiving an appropriate share of the transport element revenues as defined by their effective Exchange Access tariffs.
- HH. Meet-Point Transit Service Traffic shall have the meaning set forth in Section 1, "Scope".
- II. Message Records shall mean the message billing record in Exchange Message Record format.
- JJ. Message Telecommunications Service (MTS) means message toll telephone communications, including Discounted Toll Services, between end users in different Exchange areas, but within the same LATA, provided in accordance with the schedules of charges, regulations and conditions specified in lawfully applicable tariffs.
- KK. Minutes of Use (MOU) means the elapsed time in minutes used in the recording of Transit Service Traffic and 800/888 Service Traffic.
- LL. Multiple Bill/Single Tariff means the MPB method whereby each LEC prepares and renders its own Meet Point Bill in accordance with its own tariff(s) for the portion of the jointly-provided Exchange Access service which the LEC provides.
- MM. Multiple Exchange Carrier Access Billing (MECAB) means the document prepared by the Billing Committee of the Ordering and Billing Forum, which

functions under the auspices of the Carrier Liaison Committee of the Alliance for Telecommunications Industry Solutions, and published by Bellcore as Special Report SR-BDS-000983, which document contains the recommended guidelines for the billing of an Exchange Access service provided by two or more LECs, or by one LEC in two or more states, within a single LATA, and is incorporated herein by reference.

- NN. Originating Company means the company which originates intraLATA MTS or Local Exchange Service on its system. (For compensation purposes, the Originating Company shall be considered the Terminating Company for 800/888 Service Traffic.)
- OO. Terminating Company means the company which terminates intraLATA MTS or Local Exchange Service on its system where the charges for such services are collected by the Originating (or Billing) Company. (For compensation purposes, the Terminating Company shall be considered the Originating Company for 800/888 Service Traffic.)
- PP. Third-Number Call shall mean a call billed to a subscriber's line-based billing number which is not the number to which the call either terminates or originates.
- QQ. Transit Traffic shall refer to both ITORP Transit Service Traffic and Meet-Point Transit Service Traffic.
- RR. Transiting Company shall mean a Local Exchange Carrier which transports intraLATA telecommunications traffic on its system between an Originating Company and a Terminating Company.
- SS. Transport Facilities means the facilities from the End Office to an interconnection point used to originate or terminate switched intraLATA telecommunication services traffic.

### SECTION III

#### SETTLEMENT OF TRANSIT SERVICES

(a) ITORP Transit Service Traffic.

(1) Call Routing and Recording: Billing Percentages. BA will route ITORP Transit Service Traffic over the combined local and toll trunk groups between BA and CLEC for those Independent Telephone Companies, Certified Local Exchange Carriers and wireless carriers who have either executed an IntraLATA Telecommunications Services Settlement Agreement with BA, or another agreement with BA setting forth the terms under which Transit Traffic will be exchanged. BA and CLEC agree to designate the points of interconnection for the purpose of

terminating ITORP Transit Service Traffic which originates from an Independent Telephone Company or wireless carrier and terminates to CLEC. Both parties further agree to develop and mutually agree to billing percentages applicable to ITORP Transit Service Traffic, which billing percentages shall be calculated in accordance with ITORP guidelines.

(2) Exchange of Billing Data. The Originating Company will provide to BA all billing data relating to ITORP Transit Service Traffic for processing in ITORP within thirty(30) days from the date the usage occurs (to the extent usage occurs on any given day) for traffic originating from an Independent Telephone Company or wireless carrier, which traffic transits BA's facilities and terminates to CLEC.

(3) Billing. BA will, on behalf of CLEC, bill Exchange Carriers and wireless carriers for intraLATA ITORP Transit Service Traffic, and collect compensation due CLEC based on CLEC's established and legally-approved tariffed or negotiated rates utilizing ITORP. The charges set forth in Attachment A, attached hereto and incorporated herein by reference, shall apply to the billing and collection services provided by BA to CLEC hereunder. CLEC will record the ITORP Transit Service Traffic usage at its switch, and shall bill BA for this traffic in accordance with the rates set forth in the Interconnection Agreement under Section 251 and 252 of the Telecommunications Act of 1996, dated as of June 13, 1997, by and between BA and CLEC.

(b) Meet-Point Transit Service Traffic.

(1) Call Routing and Recording; Billing Percentages. BA and CLEC will route their respective Meet-Point Transit Service Traffic over the combined local and toll trunk groups between them. BA and CLEC agree to designate the points of interconnection for the purpose of terminating Meet-Point Transit Service Traffic which originates from a CLEC and terminates to CLEC, or originates from CLEC and terminates to a CLEC, Independent Telephone Company, or a wireless carrier. Both parties further agree to develop and file mutually agreed to billing percentages applicable to Meet-Point Transit Service Traffic in the National Exchange Carrier Association F.C.C. Tariff No. 4, which billing percentages shall be calculated in accordance with MECAB guidelines.

(i) End Offices Subtending BA Access Tandem. Meet-Point Transit Service Traffic will be routed over the local and toll interconnection facilities used to terminate similar traffic directly between BA and CLEC when the Originating and Terminating Company's End Office switches subtend BA's Access Tandem. BA will record this traffic at the BA Access Tandem, and forward the terminating call records to the Terminating Company for purposes of Meet-Point Billing.

(ii) End Offices That Do Not Subtend a BA Access Tandem. When the Originating and/or the Terminating Company's End Office switches do not subtend BA's Access Tandem, the Meet-Point Transit Service Traffic must be routed over interconnection facilities other than those used to terminate intraLATA MTS or Local Exchange Service to BA's end users. The Terminating

Company will record this traffic at its Access Tandem and forward the terminating call records to BA for Meet-Point Billing purposes.

(iii) Special Access. Upon request, any Meet-Point Service Transit Traffic may be routed over special access interconnection facilities between CLEC, on the one hand, and a CLEC, an Independent Telephone Company, or a wireless carrier, on the other.

(2) Exchange of Billing Data. All billing data exchanged hereunder will be exchanged on magnetic tape or via electronic data transfer, to be delivered at the addresses set forth below, using the Electronic Message Record format. BA will provide to CLEC the switched-access detail usage data (category 1101XX records) on magnetic tape within thirty (30) days from the date the usage occurs (to the extent usage occurs on any given day) for traffic originating from a CLEC, transiting BA's facilities and terminating to CLEC, and CLEC will provide to BA the switched access summary usage data (category 1150XX records) on a magnetic tape on a monthly basis within thirty (30) days of receipt from BA of the switched access detail usage data referenced above.

(3) Billing. BA and CLEC will submit to CLECs separate bills under their respective tariffs for their portion of jointly-provided Meet-Point Transit Service Traffic. With respect to Meet-Point Transit Service Traffic, BA and CLEC will exchange billing data and render bills under Multiple Bill/Single Tariff arrangements in accordance with the applicable terms and conditions set forth in MECAB.

(4) Addresses. Magnetic tapes to be sent hereunder to CLEC will be sent to the following address (which address CLEC may change upon prior written notice to BA):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Magnetic tapes to be sent hereunder to BA will be sent to the following address(es), as appropriate (which address(es) BA may change upon prior written notice to CLEC):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## SECTION IV

## 800/888 SERVICE

800/888 Service Traffic will be exchanged among BA, CLEC, Independent Telephone Companies, CLECs and wireless carriers via CCS/SS7 trunks, and all will deliver/route these calls as appropriate and provide EMRs to the Terminating Company. These EMRs will, per industry standards, include the following: Category 01 (800/888 number subscriber billing), Category 08 (copy record/local exchange charges), and Category 11 (interexchange carriers access records).

(a) Delivery of Translated 800/888 Number Queries and calls over CCS/SS7 links and trunks. BA and CLEC will launch their own 800/888 Number Query for 800/888 Service Traffic originated in their networks, and route this traffic to each other, as appropriate, utilizing existing local and toll interconnection facilities.

(b) Exchange of Records: Compensation. All 800/888 Service Traffic hereunder shall be subject to the appropriate access charges, as set forth in the applicable tariffs. In addition, for jointly provided intraLATA 800/888 Service Traffic between two Local Exchange Carriers, the Originating Company is responsible for billing its tariffed 800/888 Number Query charge to the Terminating Company. CLEC, when acting as an Originating Company, must submit to BA, via magnetic tape(s) in EMR format, (i) the information necessary to bill/settle intraLATA charges (EMR Category 110125), and (ii) the usage charges applicable to the terminating 800/888-number service subscriber (EMR Category 010125).

(c) Settlement. EMR records submitted by CLEC hereunder acting as an Originating Company, as contemplated in Paragraph (b) above, will be processed in accordance with ITORP. For purposes of calculating the access charges due Local Exchange Carriers with respect to 800/888 Service Traffic, the Originating Company shall be deemed the Terminating Company. Access charges payable hereunder shall be calculated in accordance with Section VI of this Agreement, as applicable.

(d) Payment of Amounts Outstanding. Upon receipt of the Inter-Company Net Billing Statement from BA, CLEC shall, within thirty (30) days of invoice, remit to BA full payment of amounts owed under the Inter-Company Net Billing Statement.

## SECTION V

## ALTERNATELY BILLED CALLS

(a) Responsibilities of the Billing Company. The Billing Company agrees to provide the Earning Company with billing services, as specified below, with respect to Alternately Billed Calls.

(1) Billing. Upon receipt of the appropriate Message Record from CMDS, the Billing Company shall include this record in the bill to be issued to the end user responsible for payment. The Earning Company shall also submit copies of these Message Records to BA, at least once a month, in order to determine monthly settlement amounts for both the Billing Company and the Earning Company which will be reflected in the Inter-Company Net Billing Statement. These amounts will reflect any and all applicable charges due the Billing Company for performing billing services hereunder. In addition, as applicable, the Inter-Company Net Billing Statement will reflect any amounts owed by CLEC to BA for administering and processing ITORP.

(2) Payment of Amounts Outstanding. Upon receipt of the Inter-Company Net Billing Statement from BA, CLEC shall, within thirty (30) days of invoice, remit to BA full payment of amounts owed under the Inter-Company Net Billing Statement.

(b) Responsibilities of the Earning Company. In connection with Alternately Billed Calls, the Earning Company shall provide Message Records to the Billing Company on a daily basis to the extent that any usage has been recorded. These Message Records will be delivered by the Earning Company to the Billing Company via the CMDS system, unless otherwise agreed to by the parties hereto.

(c) Fees for Settlement of Alternately Billed Calls. The billing services provided by the Billing Company to the Earning Company with respect to Alternately Billed Calls shall be subject to the applicable charges set forth in Attachment A, which charges will be reflected in the Inter-Company Net Billing Statement. These charges may be revised upon mutual written agreement of the parties hereto.

## SECTION VI

### CALCULATION OF COMPENSATION

BA and CLEC agree to compensate each other with respect to Transit Services Traffic and 800/888 Service Traffic in accordance with the terms established below, and the rate elements set forth in Attachments A and B, attached hereto and incorporated herein by reference.

(a) Compensation due to the Terminating/Transiting Company. Compensation due to the Terminating Company/Transiting Company will be determined separately for each month as follows:

(1) For Carrier Common Line facilities provided by the Terminating Company, an amount calculated as specified for Carrier Common Line Facilities in the Terminating Company's Exchange Access Tariff. Compensation will be determined by multiplying a) the Terminating Company's Carrier Common Line rate, times b) the MOU.

(2) For End Office facilities provided by the Terminating Company, an amount calculated as specified for End Office facilities in the Terminating Company's Exchange Access Tariff. Compensation will be determined by multiplying a) the Terminating Company's appropriate Exchange Access End Office rate elements, times b) the MOU.

(3) For Transport facilities, where these facilities are provided by the Terminating Company, or a Transiting and Terminating Company, an amount calculated in accordance with the following steps:

- (i) Determine the Terminating Company's airline miles from the End Office which serves the Terminating Company's end user to the Terminating Company's Access Tandem switching facility and/or to the interconnection point with the Transiting Company(ies).
- (ii) Determine the Transiting Company's airlines miles from the interconnection point with the Terminating Company to the Transiting Company(ies) Access Tandem switching facility and/or to the interconnection point with the Originating Company.
- (iii) Determine the sum of the total airline miles by adding (i) and (ii) above.
- (iv) Divide the Terminating Company's airline miles determined in (i) preceding by the total airline miles determined in (iii) preceding, to determine the ratio of local transport miles provided by the Terminating Company.
- (v) Divide the Transiting Company's airline miles determined in (ii) preceding by the total airline miles determined in (iii) preceding, to determine the ratio of local transport miles provided by the Transiting Company.
- (vi) Identify the rates set forth in the Exchange Access Tariff for either the Terminating Company or Transiting Companies, or both, as appropriate, which rates are applicable to Transport Facilities.
- (vii) Multiply the ratio determined in (iv) preceding, times the rate calculated in (vi) preceding, times the MOU, and add the amount set forth in (ix) below to determine the amount due the Terminating Company.
- (viii) Multiply the ratio determined in (v) preceding, times the rate calculated in (vi) preceding, times the MOU, and add the amount set forth in (ix) below to determine the amount due the Transiting Company.
- (ix) To the extent the Exchange Access Tariffs of the Terminating or Transiting Company, or both, provide for the payment of a fixed transport

charge to be assessed with respect to a terminating location (End Office or toll switch), multiply this charge times the chargeable MOU.

- (4) For 800/888 Number Query facilities, provided by the Originating Company, an amount calculated as specified for query facilities in the Originating Company's Exchange Access Tariff. Compensation will be determined by multiplying a) the Originating Company's query rate, times b) the number of queries.
- (5) For Local Call Termination facilities, provided by the Terminating Company, an amount calculated as specified for local call termination facilities in the Terminating Company's applicable Tariff or Agreement. Compensation will be determined by multiplying a) the Terminating Company's local call termination rate, times b) the MOU.

## SECTION VII

### ITORP ADMINISTRATION AND RESPONSIBILITIES

(a) Responsibilities of BA. BA shall:

1. Operate and maintain the ITORP system.
2. Provide the requirements and standards for ITORP records and tapes.
3. Inform CLEC of any proposed change in tape creation or distribution process at least sixty (60) days prior to the actual implementation of the change.
4. Develop and implement all system enhancements required to maintain the integrity of BA's ITORP system.
5. Process ITORP tapes received from CLEC, or its agent, during the next available billing cycle.
6. Review and analyze daily pre-edit reports to determine if a tape is acceptable for ITORP processing; provided, however, that CLEC is not absolved, as the Originating Company, from its responsibility to conform to ITORP input requirements.
7. Communicate with CLEC, or its agent, to resolve the problems with tapes which are identified as being unacceptable for ITORP processing.
8. Create and/or maintain all ITORP tables.

9. Include the monthly compensation due to and from CLEC as identified by ITORP on the Inter-Company Net Billing Statement. The compensation includes 800/888 Service Traffic and Alternately Billed Services traffic.
10. If requested by CLEC to perform the Clearing House function: settle with all local Exchange Carriers, via the Inter-Company Net Billing Statement, for ITORP Transit Service Traffic, 800/888 Service Traffic and Alternately Billed Calls originating from and/or terminating to CLEC.
11. Distribute monthly ITORP reports.

(b) Responsibilities of CLEC. CLEC shall:

1. Compensate BA for the administration and processing of ITORP as specified in Attachment A.
2. Notify BA Exchange Carrier Services staff in writing of any changes in its rates affecting ITORP tables, as specified in Attachment A, thirty (30) days prior to the effective date of any such changes.
3. Notify BA Exchange Carrier Services staff in writing of any network changes, such as changes in traffic routing, sixty (60) days prior to the implementation of the change in the network.
4. Conform to BA's ITORP record requirements and standards.
5. CLEC or its designated agent will forward the Exchange Message Records to BA, in a timely manner for processing.
6. Inform the BA Exchange Carrier Services staff in writing of any proposed changes in the Exchange Message Record creation or distribution process at least sixty (60) days prior to the actual implementation of the change.
7. Reimburse BA for compensating other local Exchange Carriers on behalf of CLEC, as reflected in the Inter-Company Net Billing Statement.

(c) Fees. Compensation for the administration and processing of ITORP will be due BA on a monthly basis, based on the number of messages processed in ITORP for CLEC. The processing and administrative fees are set forth in Attachment A. These fees may be revised by BA, at its discretion and upon notice to CLEC, based on periodic studies conducted by BA, and CLEC hereby agrees to be bound by such revised rates. A minimum monthly processing fee, as specified in Attachment A, will be assessed when CLEC's monthly ITORP processing charges are below the stated minimum monthly charge.

## SECTION VIII

## LIABILITIES

In the event of an error on the part of BA in calculating or settling any compensation amounts hereunder, CLEC's sole remedy and BA's only obligation shall be to re-calculate the compensation amount, and to the extent any amounts are owed to or owed by CLEC, such amounts will be reflected as an adjustment in the next Inter-Company Net Billing Statement. In the event any records are lost or destroyed, BA and CLEC will jointly estimate the charges due to either party hereunder as follows:

- (1) Total the compensation paid for the most recent six (6) months period preceding the month covered by the lost or destroyed tapes with respect to the following types of traffic (but only to the extent records for that particular type of traffic are lost or destroyed): ITORP Transit Service Traffic, Meet-Point Transit Service Traffic, 800/888 Service Traffic or Alternately Billed Calls.
- (2) Divide the total determined in (1) preceding, by 180 days.
- (3) Multiply the compensation per day determined in (2) preceding, by the number of days covered by the lost or destroyed tapes. The calculated amount will be included as an adjustment for lost or destroyed tapes in the next Inter-Company Net Bill Statement.

BA shall have no liability whatsoever, including any related access charges, with respect to any lost, damaged or destroyed records submitted hereunder by CLEC. In addition and to the extent applicable, BA's liability under this Agreement and/or in connection with the settlement, payment and/or calculation of any amounts due hereunder shall be limited as set forth in the applicable tariffs. BA shall have no obligation or liability with respect to any billing, settlement or calculation-of-compensation errors or omissions, including without limitation the duty to re-calculate any compensation amounts reflected in the Inter-Company Net Billing Statement, if such error or omission occurred more than two (2) years prior to the time in which it is brought to BA's attention in writing. Without limiting the foregoing, in no event shall either party hereto be liable for consequential, incidental, special or indirect damages (including without limitation loss of profit or business) hereunder whether such damages are based in tort (including, without limitation, under any theory of negligence), contract breach or otherwise, and even if said party knew or should have known of the possibility thereof.

## SECTION IX

## RELATIONSHIP OF THE PARTIES

Nothing herein contained will be deemed to constitute a partnership or agency relationship between the parties. Each party agrees that it will perform its obligations hereunder as an independent contractor and not as the agent, employee or servant of the other party. Neither party nor any personnel furnished by such party will be deemed employees or agents of the other party or entitled to any benefits available under any plans for such other party's employees. Each party has and hereby retains the right to exercise full control of and supervision over its own performance of the obligations under this Agreement, and retains full control over the employment, direction, compensation and discharge of all employees assisting in the performance of such obligations, including without limitation all matters relating to payment of such employees, including compliance with social security taxes, withholding taxes and all other regulations governing such matters. In addition, each party will be responsible for its own acts and those of its own subordinates, employees, agents and subcontractors during the performance of that party's obligations hereunder.

## SECTION X

## TERM AND TERMINATION

(a) Term - Upon execution by all parties hereto, this Agreement shall become effective as of the date first shown on Page 1 of this Agreement, and shall remain in effect until terminated by either party in accordance with paragraphs (b), (c), (d), or (e) below.

(b) Termination for Breach - Either party may, upon prior written notice to the other party, terminate this Agreement in the event the other party is in default or breach of this Agreement and such breach or default is not corrected within thirty (30) days after the breaching party has been notified of same.

(c) Termination for Convenience - Upon six (6) months written advance notice to the other party, either party may terminate this Agreement.

(d) Acts of Insolvency - Either party may terminate this Agreement or any portion thereof, effective immediately, by written notice to the other party, if said other party (1) applies for or consents to the appointment of or the taking of possession by receiver, custodian, trustee, or liquidation of itself or of all or a substantial part of its property; (2) becomes insolvent; (3) makes a general assignment for the benefit of creditors; (4) suffers or permits the appointment of a receiver for its business or assets; (5) becomes subject to any proceeding under any bankruptcy or insolvency law whether domestic or foreign, voluntarily or otherwise; or (6) fails to contest in a timely or appropriate manner, or acquiesces in writing to, any petition filed against it in an involuntary case under the Federal Bankruptcy Code or any application for the appointment of a

receiver, custodian, trustee, or liquidation of itself or of all or a substantial part of its property, or its reorganization, or dissolution.

(e) Termination of Interconnection Agreement. Unless otherwise agreed to by the parties hereto in writing, in the event that the Interconnection Agreement under Sections 251 and 252 of the Telecommunications Act of 1996, dated as of June 13, 1997, by and between BA and CLEC expires without being renewed, or expires or is terminated and no other interconnection agreement has been entered into by BA and CLEC, then this Agreement shall be deemed terminated effective on the date the aforesaid Interconnection Agreement expires or is terminated.

## SECTION XI

### NETWORK CONFIGURATION

Each party shall provide six (6) months advance written notice to the other party of any network configuration that may affect any of the services or compensation contemplated under this Agreement, and the parties hereto agree to use reasonable efforts to avoid service interruptions during any such network change.

## SECTION XII

### CONSTRUCTION AND EFFECT

All services contemplated under this Agreement are provided in accordance with any and all applicable regulatory requirements and effective tariffs filed with and approved by the appropriate federal and/or state regulatory bodies, as these tariffs and requirements may be modified from time to time. To the extent there is a conflict between the terms of any said tariff or regulatory requirement and this Agreement, the terms of the tariff or the regulatory requirement shall prevail. However, to the extent not in conflict with the provisions of the applicable tariffs or regulatory requirements, this Agreement shall supplement the tariffs or regulatory requirements, and it shall be construed to the fullest extent possible in harmony with such tariffs or regulatory requirements.

## SECTION XIII

### MISCELLANEOUS

(a) Headings. Headings used in this Agreement are for reference only, do not constitute part of this Agreement, and shall not be deemed to limit or otherwise affect any of the provisions hereof.

(b) Notices. All notices, requests, demands, or other communications required or permitted hereunder shall be in writing, shall be deemed delivered (1) on the date of delivery when delivered by hand, (2) on the date of transmission when sent by electronic mail or facsimile transmission during normal business hours with telephone confirmation of receipt, (3) one (1) day after dispatch when sent by overnight courier maintaining records of receipt, or (4) three (3) days after dispatch when sent by registered mail, postage prepaid, return-receipt requested, all addressed as follows (or at such other addresses as shall be given in writing by either party to their other):

If to BA:	Address: .. 1320 N. Court House Road, 9 <sup>th</sup> Floor Arlington, VA 22201
	Attn.: Manager-Local Interconnection
	Facsimile: 703 974 2188
	Telephone: 704 974 4614

If to CLEC:	Address:
	Attn:
	Facsimile:
	Telephone:

(c) Successors: Assignment. This Agreement and all of the provisions hereof shall be binding upon and inure to the benefit of the parties hereto and their respective successors and permitted assigns, and nothing herein shall be construed to create any rights enforceable by any other person or third party. This Agreement may not be assigned by either party (except by BA to an affiliate or successor in interest) without the prior written consent of the other party, which consent shall not be unreasonably withheld.

(d) Waiver. No waiver of any right or term hereof shall be effective unless in a writing executed by the waiving party. No waiver of any right or privilege hereunder shall operate as a waiver of any subsequent or similar right or privilege.

(e) Modifications. This Agreement may be modified or amended only by a written agreement executed by the parties hereto.

(f) Counterparts. This Agreement may be executed in counterparts, all of which shall be considered one and the same agreement and each of which shall be deemed an original.

(g) Severability. If any term, provision, paragraph or clause of this Agreement or any application thereof shall be held invalid or unenforceable in any particular jurisdiction, the remainder of this Agreement and any other application of such term, provision, paragraph or clause shall not be affected thereby in such jurisdiction (where such remainder or application shall be construed as if such invalid or unenforceable term, provision, paragraph or clause has not been inserted), and this Agreement and such application of such term, provision, paragraph or clause shall not be affected in any other jurisdiction.

(h) Contingency. Neither party will be held liable for any delay or failure in performance of this Agreement from any cause beyond its control and without its fault or negligence including but not limited to acts of God, acts of civil or military authority, government regulations, embargoes, epidemics, wars, terrorist acts, riots, insurrections, fires, explosions, earthquakes, nuclear accidents, floods, strikes, power blackouts, other major environmental disturbances, unusually severe weather conditions, inability to secure products or services of other persons or transportation facilities, or acts or omissions of transportation common carriers.

(i) Governing Law. Except as otherwise expressly provided herein, this Agreement shall be interpreted, construed and governed by the laws of the Commonwealth of Pennsylvania, without regard to conflict of law provisions.

(j) Confidentiality. Unless by mutual agreement, or except to the extent directed by a court of competent jurisdiction, neither party shall disclose this Agreement or the terms hereof to any person other than such party's affiliates or such party's officers, employees and consultants, who are similarly bound hereby. This paragraph shall not prevent the filing of this Agreement with a state or federal commission having jurisdiction over the parties hereto if such filing is required by rule or order of that commission; provided, however, that the parties hereto shall jointly request that the Agreement be treated as confidential by that commission to the extent permitted under the commission's regulations and procedures. Each party hereto must maintain the confidentiality of all message, billing, traffic, and call records, traffic volumes and all other material information and data pertaining to the traffic covered by this Agreement and the carriers and end users associated with such traffic.

(k) Remedies under Law. All remedies available to the parties hereto under the terms of this Agreement shall be in addition to, and not by way of limitation of, any other rights that said parties may have at law or equity, none of which are hereby waived.

(l) Entire Agreement. This Agreement, including all Attachments and Schedules attached hereto, contains the entire agreement, and supersedes and voids any prior understanding, between BA and CLEC regarding the subject matter hereof.

In witness whereof, the undersigned parties have caused this Agreement to be executed on their behalf this \_\_\_\_ day of \_\_\_\_\_, 199\_.

July 8, 1997

ATTACHMENT III

Witness:

CLEC

\_\_\_\_\_

By: \_\_\_\_\_

Witness:

Bell Atlantic - Pennsylvania, Inc.

\_\_\_\_\_

By: \_\_\_\_\_

## ATTACHMENT A

## BASIS OF COMPENSATION

## CHARGES FOR ADMINISTRATION OF ITORP AND ITORP PROCESSING

A. Bell Atlantic - Pennsylvania, Inc. charges the following rates for providing ITORP services:

1.	Administrative Charge (monthly) (includes Clearing House function)	\$100.00
2.	Processing Charge Elements:	
a.	Terminating Traffic (per message)	\$0.00199
b.	Minute/Message (per message)	\$0.00001
c.	800/888 Message (per message)	\$0.00105
d.	Net Compensation (per message)	\$0.00001
e.	Collected Revenue Processing (per message)	\$0.00026
3.	Minimum Monthly Processing Fee (monthly)	\$100.00
4.	Alternately Billed Calls (per message)	\$0.0434

## ATTACHMENT B

I.

Message Telecommunications Service - Terminating to CLEC

<u>Rate Element</u>	<u>Billing Company</u>
Carrier Common Line	CLEC
End Office	CLEC
Transport	Based on negotiated billing percentages (BIPs)

II.

800/888 - Terminating to or originating from CLEC Customers

<u>Rate Element</u>	<u>Billing Company</u>
Carrier Common Line	Originating Company
End Office	Originating Company
Transport	Based on negotiated billing percentages (BIPs)
Query	Originating Company

III.

Local Exchange - Terminating to CLEC

<u>Rate Element</u>	<u>Billing Company</u>
Local Call Termination Charge	CLEC
Transport	Based on negotiated billing percentages (BIPs)

**TABLE OF CONTENTS**

**Attachment IV  
INTERCONNECTION**

Section 1.	Local Interconnection Trunk Arrangement	IV - 1
Section 2.	Compensation Mechanisms	IV - 3
Section 3.	Signaling	IV - 5
Section 4.	Network Servicing	IV - 6
Section 5.	Network Management	IV - 8
Section 6.	Line Status Verification and Call Interrupt	IV - 9
Section 7.	Usage Measurement	IV - 10
Section 8.	Responsibilities of the Parties	IV - 11

**ATTACHMENT IV**  
**INTERCONNECTION**

***Section 1. Local Interconnection Trunk Arrangement***

1.1 The Parties shall terminate Local Traffic and intraLATA/interLATA toll traffic originating on each other's networks as follows:

1.1.1 Initially, the Parties shall make available to each other two-way trunks, to be used one-way, for the reciprocal exchange of combined Local Traffic, non-equal access intraLATA toll traffic, and local transit traffic to other ILECs. In quarterly joint planning meetings pursuant to Section 8.3, where mutually agreed, the Parties may combine these trunk groups on a single shared two-way trunk group.

1.1.2 Bell Atlantic shall make available to MCIIm a two-way trunk group, to Bell Atlantic's appropriate access tandem(s), to be used two-way, for the exchange of equal access traffic between MCIIm and purchasers of Bell Atlantic's switched Exchange Access Services.

1.1.3 The Parties shall make available to each other trunks, to connect the originating Party's Switch to the appropriate E911 tandem of the other Party, or to connect the originating Party's Switch to the appropriate 911 PSAP.

**1.1.4 Bell Atlantic Operator Services Trunks**

1.1.4.1 The Parties shall make available to each other trunks to connect the originating Party's Switch to the other Party's Operator Service center for operator-assisted Line Status Verification/Verification and Call Interrupt.

1.1.4.2 For traffic from the Bell Atlantic network to MCIIm for Operator Services, Bell Atlantic shall provide one trunk group per NPA served by Bell Atlantic.

1.1.4.3 Bell Atlantic shall provide such trunks as one-way trunks from the Bell Atlantic network to the MCIIm network.

1.1.5 Bell Atlantic shall make available to MCIIm trunks to connect MCIIm's Switch to Bell Atlantic's Directory Assistance center in instances where MCIIm is purchasing Bell Atlantic's Directory Assistance service.

1.1.6 It is recognized by the Parties that there is no technical requirement to segregate local and toll traffic from MCIIm to Bell Atlantic, or from Bell Atlantic to MCIIm, provided that the classification of the traffic can reliably be identified by the Parties in accordance with the terms of Section 7.5 herein.

## 1.2 Interconnection Point

### 1.2.1 Definitions

1.2.1.1 "Interconnection Point" or "IP" means the switching, Wire Center, or other similar network node in a Party's network at which such Party accepts Local Traffic from the other Party. Bell Atlantic IPs include any Bell Atlantic End Office, for the delivery of traffic terminated to numbers served out of that End Office, and/or any Bell Atlantic access Tandem Office, for the delivery of traffic to numbers served out of any Bell Atlantic End Office that subtends that access Tandem Office. MCIIm IPs include any MCIIm Switch, for the delivery of traffic terminated to numbers served out of that Switch.

1.2.1.2 "Point of Interconnection" or "POI" means the physical point that establishes the technical interface, the test point, and the operational responsibility hand-off between the Parties for the Local Interconnection of their networks. Unless otherwise mutually agreed, MCIIm will be responsible for engineering and maintaining its network on its side of the POI and Bell Atlantic will be responsible for engineering and maintaining its network on its side of the POI.

1.2.2 MCIIm shall establish at Technically Feasible points in Bell Atlantic's network at least one POI in each of the Bell Atlantic access tandem serving areas in which MCIIm originates Local Traffic and interconnects with Bell Atlantic; provided that Bell Atlantic may request relief from the Commission if Bell Atlantic reasonably believes that MCIIm has manipulated the designation of POIs in order to maximize the transport revenues Bell Atlantic must pay to MCIIm. The Party delivering traffic to the other Party's IP(s) shall do so by purchasing from the other Party transport between the POI(s) and the IP(s), if necessary. MCIIm shall deliver traffic to at least one IP in each Bell Atlantic access tandem serving area to which its end users have local calling; provided, however, that if MCIIm delivers traffic to only one IP in an access tandem serving area, the IP shall be the access tandem. Bell Atlantic shall deliver traffic to at least one (1) MCIIm IP in each Bell Atlantic access tandem serving area.

1.2.2.1 If and when the Parties choose to interconnect at a fiber optic mid-span meet, MCIIm and Bell Atlantic will mutually agree on the technical, operational and compensation issues associated with each specific mid-span

meet implemented, and jointly provision the fiber optic facilities that connect the two networks in accordance with such agreement.

1.2.2.2 In response to a Party's request for any POI, the other Party shall provide any information in its possession or control regarding the environmental conditions of those POIs whose location is within its possession or control. The Party controlling the POI shall notify the requesting Party of any hazardous environmental conditions of the POI, including the existence and condition of asbestos, lead paint, hazardous substance contamination, and the like. The Party controlling the POI shall respond to any such request within ten (10) business days for manned sites and within no more than thirty (30) calendar days for unmanned sites.

1.2.2.3 The Party controlling a POI shall allow the requesting Party to perform at reasonable hours, reasonable environmental site investigations, including, but not limited to, asbestos surveys, that the requesting Party deems to be necessary in support of its interconnection needs.

1.2.2.4 If interconnection is complicated by the presence of environmental contamination or hazardous materials, and an alternative route is available within the space controlled by the Party controlling an POI, then such Party shall make such alternative route available for the requesting Party's consideration.

## ***Section 2. Compensation Mechanisms***

### **2.1 Point of Interconnection**

2.1.1 Each (originating) Party is responsible for bringing their traffic to a POI.

### **2.2 Compensation for Local Traffic Transport and Termination**

2.2.1 The POI determines the point at which the originating carrier shall pay the terminating carrier for the Transport and Termination of local traffic. The following compensation elements shall apply:

2.2.1.1 "Transport," which includes the transmission of Local Traffic from the POI to the terminating carrier's IPs, and any necessary Tandem Switching, and any necessary transport between the terminating carrier's access Tandem Office and the terminating carrier's End Office Switch that directly serves the called end user.

2.2.1.2 "Termination," which includes the switching of Local Traffic at the terminating carrier's End Office Switch.

2.3. When an MCIIm customer places a call to a Bell Atlantic customer, MCIIm will hand off that call to Bell Atlantic at the POI. Conversely, when Bell Atlantic hands over Local Traffic to MCIIm for MCIIm to transport and terminate, Bell Atlantic must use an established POI.

2.4 MCIIm may designate as its means of delivering traffic to a POI any Technically Feasible methods, including but not limited to, Collocation using electronic or manual cross-connect points via a digital signal access point ("DSAP"), or mutually-agreed mid-span meets. The transport and termination charges for Local Traffic delivered to POI shall be as follows:

2.4.1 When Local Traffic from MCIIm is terminating on Bell Atlantic's network through the Bell Atlantic access Tandem Office IP, MCIIm will pay Bell Atlantic transport charges from the POI to the Tandem Office for Dedicated Transport. Alternatively, MCIIm may choose to collocate at the Bell Atlantic access Tandem Office and pay applicable Collocation and cross-connect charges. MCIIm may also choose to purchase Bell Atlantic Dedicated Transport from the POI to a Collocation site established by MCIIm or a third Party at the Bell Atlantic access Tandem Office IP. MCIIm shall also pay a charge for the tandem termination rate. The tandem termination rate includes Tandem Switching, Common Transport to the End Office, and End Office termination and will be charged at the rate set forth in Attachment I.

2.4.2 When Local Traffic from Bell Atlantic is terminating on MCIIm's network through the POI, Bell Atlantic shall pay MCIIm transport charges from the POI to the MCIIm Switch for Dedicated Transport. This transport charge shall not exceed Bell Atlantic's equivalent charge. Bell Atlantic shall also pay a charge symmetrical to its own charges to MCIIm for Tandem Switching, Tandem Office to End Office transport, and End Office termination, provided that the MCIIm Switch covers an area comparable to the Bell Atlantic access Tandem Office serving the same area. If the area covered by the MCIIm Switch is comparable instead to the area of an End Office, Bell Atlantic shall not pay the charges for Tandem Switching or Tandem Office to End Office transport.

2.4.3 MCIIm may choose to establish direct trunking to any given Bell Atlantic End Office from the POI. If MCIIm leases trunks from Bell Atlantic, it shall pay charges for Dedicated Transport. For calls terminating from MCIIm to subscribers served by these directly-trunked end offices, MCIIm shall also pay for Local Traffic termination at the End Office termination rate. For Bell Atlantic Local Traffic terminating to MCIIm over the direct End Office trunking, compensation payable by Bell Atlantic shall be the same as that detailed in Section 2.4.2 above.

### *Section 3. Signaling*

3.1 Signaling protocol. The Parties will interconnect their networks using SS7 signaling as defined in Bellcore documents GR-905-CORE, Issue 1, March 1995, Bellcore Special Report SR-TSV-002275, BOC Notes on the LEC Networks-Signaling, Bellcore Generic Requirements GR-317, Issue 1, February 1994 and GR-394, Issue 1, February 1994, including ISDN User Part ("ISUP") for trunk signaling and Transaction Capabilities Application Part ("TCAP") for CCS-based features in the interconnection of their networks.

3.2 The Parties will provide CCS to each other in conjunction with all trunk groups supporting intraLATA, local, transit, and toll traffic. CCS will not be provided in conjunction with trunk groups supporting Operator Services (Call Completion and Directory Assistance), 911, or where CCS has not been deployed by the originating carrier. The Parties will cooperate on the exchange of Transactional Capabilities Application Part ("TCAP") messages to facilitate full inter-operability of CCS-based features between their respective networks, including all CLASS features and functions. All CCS signaling parameters will be provided including Automatic Number Identification ("ANI"), originating line information ("OLI"), calling party category, Charge Number, *etc.* For terminating FGD, Bell Atlantic will pass CPN if it receives CPN from FGD carriers. All privacy indicators will be honored. Where available, network signaling information such as Transit Network Selection ("TNS") parameter (CCS platform) and CIC/OZZ information (non-CCS environment) will be provided by either Party wherever such information is needed for call routing or billing. The Parties will generally conform to OBF adopted guidelines pertaining to TNS and CIC/OZZ codes in accordance with Section 15.4 of Part A.

3.3 Refer to Attachment III, Section 11 for detailed terms of SS7 Network Interconnection.

3.4 Standard interconnection facilities shall be ESF with B8ZS line code. Where ESF/B8ZS is not available, both Parties will agree to use other interconnection protocols on an interim basis until the standard ESF/B8ZS is available. For specific arrangements not deployed as ESF/B8ZS, Bell Atlantic will provide anticipated dates of ESF/B8ZS availability for these facilities.

3.4.1 Where MCI is unwilling to utilize an alternate interconnection protocol, MCI will provide Bell Atlantic with a request for 64 kbps Clear Channel Capability ("64K CCC") trunk quantities consistent with the quarterly forecasting agreements between the Parties pursuant to Section 8.3. Upon receipt of this request, the Parties will begin joint planning for the engineering, procurement, and installation of the segregated 64K CCC Local Interconnection Trunk Groups, and the associated B8ZS Extended Super Frame ("ESF") facilities, for the sole purpose of transmitting 64K CCC data calls between MCI and Bell Atlantic. Where additional equipment or network rearrangements are required, such equipment and

rearrangements will be obtained, engineered, installed, and performed on the same basis and with the same intervals as any similar subscriber specific special construction jobs for IXCs, CLECs, or Bell Atlantic internal subscriber demand for 64K CCC trunks. Such equipment and rearrangements shall be charged at Commission-approved, applicable special construction rates. Should the foregoing not be adequate, MCI may invoke the BFR process. Where Technically Feasible and mutually agreed, these trunks will be established as two-way.

#### *Section 4. Network Servicing*

##### **4.1 Trunk Forecasting**

4.1.1 The Parties shall work toward the development of their forecasting responsibilities for traffic utilization over trunk groups. Orders for trunks that exceed forecasted quantities for forecasted locations will be accommodated as facilities and/or equipment are available. Parties shall make all reasonable efforts and cooperate in good faith to develop alternative solutions to accommodate orders when facilities are not available. Intercompany forecast information must be provided by MCI to Bell Atlantic on a quarterly basis. The forecasts shall include:

4.1.1.1 Yearly forecasted trunk quantities to each of Bell Atlantic's End Offices and access Tandem Office(s) affected by the exchange of traffic (which include measurements that reflect actual Tandem and End Office Local Interconnection and meet point trunks and tandem-subtending Local Interconnection End Office equivalent trunk requirements for no more than two years (current plus one year)) by traffic type (local/toll, operator services, 911, etc.), Access Carrier Terminal Location ("ACTL"), interface type (e.g., DS1), and trunks in service each year (cumulative);

4.1.1.2 The use of A location/Z location Common Language Location Identifier ("CLLI-MSG"), which are described in Bellcore documents BR 795-100-100 and BR 795-400-100; and

4.1.1.3 Descriptions of major network projects that affect the other Party will be provided in the forecasts. Major network projects include, but are not limited to, trunking or network rearrangements, shifts in anticipated traffic patterns, or other activities by either Party that are reflected by a significant increase or decrease in trunking demand for the following forecasting period.

4.1.2 Parties shall meet to review and reconcile their forecasts if forecasts vary significantly.

4.1.2.1 Because each Party's trunking requirements will, at least during an initial period, be dependent on the subscriber segments to whom MCIIm decides to market its services, Bell Atlantic will be largely dependent on MCIIm to provide accurate trunk forecasts for both inbound (from Bell Atlantic) and outbound (from MCIIm) traffic. Bell Atlantic will, as an initial matter, and upon receipt of a forecast from MCIIm, order a sufficient number of trunks from MCIIm for Local Traffic and intraLATA toll, to MCIIm from Bell Atlantic, to handle the traffic forecast. Upon the establishment of any new set of trunks for traffic, each Party will monitor traffic for up to ninety (90) days, and will, as necessary, either augment trunks or disconnect trunks, based on the application of reasonable engineering criteria to the actual traffic volume experienced. If, after such ninety (90) day period, either Party has determined that the trunks are not warranted by actual traffic volumes, then, it shall inform the other in writing. Thereafter, within ten (10) business days of receipt of the written notice, the Party receiving notice shall inform the other Party of whether it desires to keep in operation any unused trunk. Each Party may hold the other financially responsible for such trunks, installed at the request of the other Party, retroactive to the start of the ninety (90) day period until such time as they are justified by actual traffic volumes, based on the application of reasonable engineering criteria.

4.1.3 Each Party shall provide a specified point of contact for planning, forecasting, and trunk servicing purposes.

4.1.4 Trunking can be established to Tandem or End Offices or a Combination Class 5/Class 4 via either one-way or two-way trunks in accordance with the standards set forth in Section 1 above. Trunking will be at the DS-0 level, DS-1 level, or higher, as mutually agreed in accordance with the standards set forth in Section 1 of this Attachment. Initial trunking will be established between the MCIIm switching centers and Bell Atlantic's access Tandem Office(s). The Parties may use direct End Office trunking for their traffic when deemed appropriate. Requests for direct End Office trunking will not be unreasonably denied.

#### 4.2 Grade of Service

4.2.1 A blocking standard of one percent (.01) during the average busy hour, as defined by each Party's standards, for final trunk groups between MCIIm and Bell Atlantic shall be maintained.

#### 4.3 Trunk Servicing

4.3.1 Orders between the Parties to establish, add, change or disconnect trunks shall be processed by use of an Access Service Request ("ASR"), or another industry standard eventually adopted to replace the ASR for local service ordering.

4.3.2 As discussed in this Agreement, both Parties will manage the capacity of their Local Interconnection Trunk Groups. Bell Atlantic will issue an ASR to MCIIm to trigger changes Bell Atlantic desires to the Bell Atlantic Local Interconnection Trunk Groups based on Bell Atlantic's capacity assessment. MCIIm will issue an ASR to Bell Atlantic to trigger changes MCIIm desires to the MCIIm Local Interconnection Trunk Groups based on MCIIm's capacity assessment.

4.3.3 The standard interval used for the provisioning of local interconnection trunk groups shall be ten (10) business days for orders of fewer than ninety-six (96) DS-0 trunks. Orders beyond this amount shall be determined on an individual case basis. Where feasible, Bell Atlantic will expedite installation, upon MCIIm's request.

4.3.4 Orders that comprise a major project that directly impacts the other Party may be submitted at the same time, and their implementation shall be jointly planned and coordinated. Major projects are those that require the coordination and execution of multiple orders or related activities between and among Bell Atlantic and MCIIm work groups, including but not limited to the initial establishment of Local Interconnection or Meet Point trunk groups and service in an area, facility grooming, or network rearrangements.

4.3.5 MCIIm and Bell Atlantic agree to exchange escalation lists which reflect contact personnel including vice president-level officers. These lists shall include name, department, title, phone number, and fax number for each person. MCIIm and Bell Atlantic agree to exchange an up-to-date list promptly following changes in personnel or information.

## ***Section 5. Network Management***

### **5.1 Protective Protocols**

5.1.1 Either Party may use protective network traffic management controls such as 7-digit and 10-digit code gaps on traffic toward the other Party's network, when required to protect the public switched network from congestion due to facility failures, Switch congestion or failure, or focused overload. MCIIm and Bell Atlantic will immediately notify each other of any protective control action planned or executed.

### **5.2 Expansive Protocols**

5.2.1 Where the capability exists, originating or terminating traffic reroutes may be implemented by either Party to temporarily relieve network congestion due to facility failures or abnormal calling patterns. Reroutes will not be used to

circumvent normal trunk servicing. Expansive controls will only be used when mutually agreed to by the Parties.

### 5.3 Mass Calling

5.3.1 MCI and Bell Atlantic shall cooperate and share pre-planning information, where available, regarding cross-network call-ins expected to generate large or focused temporary increases in call volumes, to prevent or mitigate the impact of these events on the public switched network.

## Section 6. Line Status Verification And Verification With Call Interruption

6.1 Each Party shall offer Line Status Verification ("LSV") and Verification and Call Interrupt ("VCI") services to enable its subscribers to verify and/or interrupt calls of the receiving Party's subscribers. The receiving Party shall accept and respond to LSV and VCI requests from the operator bureau of the originating Party, provided that the originating Party has ordered the requisite underlying LSV/VCI service from the receiving Party.

6.2 The receiving Party operator shall only verify the status of the line or interrupt the line to inform the called Party that there is a call waiting. The receiving Party operator will not complete the telephone call of the subscriber initiating the LSV/VCI request. The receiving Party operator will only make one LSV/VCI attempt per subscriber operator bureau telephone call, and the applicable charges apply whether or not the called Party releases the line.

6.3 Each Party's operator bureau shall accept LSV and VCI inquiries from the operator bureau of the other Party in order to allow transparent provision of LSV/VCI traffic between the Parties' networks.

6.4 Each Party shall route LSV/VCI traffic inquiries over separate direct trunks (and not the local/intraLATA/interLATA trunks) established between the Parties' respective operator bureaus. Each Party shall offer interconnection for LSV/VCI traffic at its Operator Services tandem office or other mutually agreed point in the LATA. Separate LSV/VCI trunks will be directed to the Operator Services tandem office designated by the receiving Party. The originating Party shall outpulse the appropriate NPA, ATC Code, and Routing Code (operator code) to the receiving Party.

6.5 When a LSV/VCI request for a ported number is directed to either Party's operator and the query is not successful (*i.e.*, the request yields an abnormal result), the operator shall confirm whether the number has been ported and shall direct the request to the appropriate operator. The Parties shall work cooperatively to develop this process, which does not exist as of the Effective Date.

6.6 Compensation: Each Party shall charge the other Party for LSV and VCI at rates specified in Attachment I.

### *Section 7. Usage Measurement*

7.1 Each Party shall calculate terminating interconnection minutes of use based on standard Automatic Message Accounting ("AMA") recordings made within each Party's network, these recordings being necessary for each Party to generate bills to the other Party.

7.2 Measurement of minutes of use over Local Interconnection Trunk Groups shall be in actual conversation seconds. The total conversation seconds over each individual Local Interconnection Trunk Group will be totaled for the entire monthly bill-round and then rounded to the next whole minute.

7.3 For billing purposes, each Party shall pass Calling Party Number ("CPN") information on each call carried over the traffic exchange trunks at such time as the originating Switch is equipped for SS7 and from all switches no later than December 31, 1998. At such time as either Party has the ability, as the Party receiving the traffic, to use such CPN information to classify on an automated basis traffic delivered by the other Party as either Local Traffic or toll traffic, such receiving Party shall bill the originating Party the Local Traffic termination rates, intrastate Exchange Access rates, or interstate Exchange Access rates applicable to each minute of traffic for which CPN is passed, as provided in Attachment I and applicable Tariffs.

7.4 If, under the circumstances set forth in Section 7.3, the originating Party does not pass CPN on up to ten percent (10%) of calls, the receiving Party shall bill the originating Party the Local Traffic termination rates, intrastate Exchange Access rates, intrastate/interstate transit traffic rates, or interstate Exchange Access rates applicable to each minute of traffic, as provided in Attachment I and applicable Tariffs, for which CPN is passed. For the remaining up to ten percent (10%) of calls without CPN information, the receiving Party shall bill the originating Party for such traffic at Local Traffic termination rates, intrastate Exchange Access rates, intrastate/interstate transit traffic rates, or interstate Exchange Access rates applicable to each minute of traffic, as provided in Attachment I and applicable Tariffs, in direct proportion to the minutes of use of calls passed with CPN information.

7.5 If the originating Party fails to pass CPN on more than ten percent (10%) of calls, either Party may require that separate trunk groups for Local Traffic and toll traffic be established. If neither Party requests such separate trunk groups, or if the receiving Party lacks the ability to use CPN information to classify on an automated basis traffic delivered by the other Party as either Local Traffic or toll traffic, and the originating Party desires to combine Local Traffic and toll traffic on the same trunk group, it will supply an auditable Percent Local Usage ("PLU") report quarterly, based on the previous three months' traffic, and applicable to the following three months. If the originating Party also desires

to combine interstate and intrastate toll traffic on the same trunk group, it will supply an auditable Percent Interstate Usage ("PIU") report quarterly, based on the previous three months' terminating traffic, and applicable to the following three months. In lieu of the foregoing PLU and/or PIU reports, the Parties may agree to provide and accept reasonable surrogate measures for an agreed-upon period.

7.6 Measurement of billing minutes for purposes of determining terminating compensation shall be in conversation seconds.

### *Section 8. Responsibilities of the Parties*

8.1 Bell Atlantic and MCIIm agree to treat each other fairly and nondiscriminatorily for all items included in this Agreement, or related to the support of items included in this Agreement.

8.2 MCIIm and Bell Atlantic agree to exchange such reports and/or data as provided in this Attachment in Section 7 to facilitate the proper billing of traffic. Either Party may request an audit of such usage reports on no fewer than ten (10) business days' written notice and any audit shall be accomplished during normal business hours at the office of the Party being audited. Such audit must be performed by a mutually agreed-to independent auditor paid for by the Party requesting the audit and may include review of the data described in Section 7 above. Such audits may be requested within six (6) months of having received the PLU factor and usage reports from the other Party.

8.3 MCIIm and Bell Atlantic will review engineering requirements on a quarterly basis and establish forecasts for trunk and facilities utilization provided under this Agreement. Bell Atlantic and MCIIm will work together to begin providing these forecasts within thirty (30) days from the Effective Date of this Agreement. New trunk groups will be implemented as dictated by engineering requirements for either Bell Atlantic or MCIIm.

8.4 Unless otherwise mutually agreed for specific facility arrangements, Bell Atlantic shall be solely responsible for Control Office functions for local interconnection trunks and trunk groups that Bell Atlantic orders from MCIIm. In addition, Bell Atlantic shall be solely responsible for the overall coordination, installation, and maintenance responsibilities for the trunks and trunk groups that MCIIm orders from Bell Atlantic. The Parties shall agree upon the assignment of Control Office, coordination, installation, and maintenance responsibilities for shared interconnection trunks and for mid-span meet trunks at such time as the Parties agree to install each such facility.

8.5 MCIIm and Bell Atlantic shall:

8.5.1 Provide trained personnel with adequate and compatible test equipment to work with each other's technicians.

8.5.2 Notify each other when there is any change affecting the service requested, including the due date.

8.5.3 Coordinate and schedule testing activities of their own personnel, and others as applicable, to ensure its interconnection trunks/trunk groups are installed per the interconnection order, meet agreed-upon acceptance test requirements, and are placed in service by the due date.

8.5.4 Perform sectionalization to determine if a trouble is located in its facility or its portion of the interconnection trunks prior to referring the trouble to each other.

8.5.5 Advise each other's Control Office if there is an equipment failure which may affect the interconnection trunks.

8.5.6 Provide each other with a trouble reporting/repair contact number that is readily accessible and available twenty-four (24) hours/seven (7) days a week. Any changes to this contact arrangement must be immediately provided to the other Party.

8.5.7 Provide to each other test-line numbers to enable testing of interconnection trunks.

8.5.8 Cooperatively plan and implement coordinated repair procedures for the meet point and local interconnection trunks and facilities to ensure trouble reports are resolved in a timely and appropriate manner.

**TABLE OF CONTENTS**

**Attachment V  
COLLOCATION**

Section 1.	Introduction	V - 1
Section 2.	Technical Requirements	V - 1
Section 3.	License	V - 7
Exhibit A	Virtual Collocation Application	
Exhibit B	Physical Collocation Application	

## ATTACHMENT V

### COLLOCATION

#### *Section 1. Introduction*

This Attachment sets forth the requirements for Collocation. Bell Atlantic shall provide MCIIm Collocation in accordance with the terms of its FCC and Pennsylvania Collocation Tariffs and the provisions of this Attachment V. Any conflicts between the Tariff and the provisions hereof shall be resolved as set forth in Section 1. Part A of this Agreement.

#### *Section 2. Technical Requirements*

2.1 Bell Atlantic shall provide space, as reasonably requested by MCIIm, to meet MCIIm's needs for placement of equipment. MCIIm may collocate only that equipment which is used for interconnection and access to Network Elements. Such equipment may include Remote Switching Modules ("RSMs") in Bell Atlantic's Central Offices which currently provide Unbundled Local Loops ("ULLs") using digital loop carriers or are scheduled to provide ULLs using digital loop carriers.

2.1.1 To the extent practicable and consistent with the needs of Bell Atlantic and other collocators, Bell Atlantic will use reasonable efforts to place MCIIm's physically collocated interconnection space so as to permit MCIIm to expand its collocated interconnection space to a contiguous area, up to a maximum of four-hundred (400) square feet.

2.1.2 Subject to availability, physically-collocated interconnection will be provided on a first-come, first-served basis in a physically-collocated office until available Collocation space and facilities are exhausted. In such instances where two (2) or more requests for space are received at the same time for a Central Office building with limited space, a lottery will be administered to determine the order of selection of applicants.

2.1.3 If the space remaining in the portion of the Central Office in which physical Collocation is provided (the "Collocation Space") is less than one-hundred (100) square feet or otherwise configured so as to be unsuited to meet the requirements of another collocator that has requested such space, the existing collocator(s) shall have the option of applying for any portion(s) of the remaining space.

2.1.4 In the event that MCIIm withdraws its request for Collocation service prior to completion, Bell Atlantic will refund the pre-paid design and planning fee, less actual costs incurred by Bell Atlantic.

2.1.5 Upon receipt of MCI's first Collocation application form, Bell Atlantic will, upon request, make available to MCI at cost any applicable Bellcore or Bell Atlantic-specific documentation as listed in Bell Atlantic's Tariff F.C.C. No. 1, Section 19.3.5. MCI is responsible for obtaining all other applications listed in Appendix I to Part A.

2.1.6 At the time Bell Atlantic submits contractor bids to MCI, Bell Atlantic shall provide any information in its possession or control regarding the environmental condition of the space provided for those sites, where the information is reasonably available. Bell Atlantic shall also notify MCI at such time of the following conditions of which it is aware: the existence and condition of asbestos, lead paint, hazardous substance contamination, and the like.

2.1.7 Bell Atlantic shall allow MCI to perform reasonable environmental site investigations within the designated Collocation Space, including, but not limited to, asbestos surveys, which MCI deems to be necessary in support of its Collocation needs, upon completion of Bell Atlantic's required construction work for the MCI Collocation space.

2.1.8 If the space provided for the placement of equipment, interconnection, or provision of service contains environmental contamination or hazardous material, particularly but not limited to asbestos or lead paint which makes the placement of such equipment or interconnection hazardous, Bell Atlantic shall offer an alternative space, if available at the same Bell Atlantic premise, for MCI's consideration.

2.2 Bell Atlantic shall provide intraoffice facilities (e.g., DS1, DS3, DS0, OC3, OC12, OC48, and STS-1, terminations where and when available) as requested by MCI to meet MCI's need for placement and interconnection of equipment, where Technically Feasible.

2.3 Bell Atlantic agrees to allow MCI's employees and designated agents unrestricted access to MCI dedicated space in Bell Atlantic offices twenty-four (24) hours per day each day of the week. Bell Atlantic may place reasonable security restrictions on access by MCI's employees and designated agents to the MCI Collocated space in Bell Atlantic offices, in accordance with Attachment IX.

2.4 Where Technically Feasible, Bell Atlantic shall provide the connection between the equipment in the collocated spaces of two (2) or more Telecommunications Carriers permitting such Telecommunications Carrier(s) to interconnect its network with that of another collocating Telecommunications Carrier at Bell Atlantic premises, provided that the collocated equipment is used for interconnection with Bell Atlantic or for access to Bell Atlantic's Network Elements.

2.5 Bell Atlantic shall permit MCI to subcontract the construction of physical Collocation arrangements within the MCI Collocation space, to Bell Atlantic's construction specifications, with contractors approved by Bell Atlantic, provided, however, that Bell Atlantic shall not unreasonably withhold approval of contractors. Approval by Bell Atlantic shall be based on the same criteria it uses in approving contractors for its own purposes.

2.6 MCI may order from Bell Atlantic basic business telephone service at the Collocation space, as may be required for administrative purposes.

2.7 Bell Atlantic shall provide lighting, ventilation, power, heat, air conditioning, and other environmental conditions for MCI's space and equipment in substantial conformance with Bell Communication Research ("Bellcore") Network Equipment-Building System ("NEBS") standards TR-EOP-000063. MCI may order additional lighting and AC power in accordance with Bell Atlantic's Collocation Tariffs.

2.8 Bell Atlantic shall provide access to bathrooms and drinking water within a collocated facility on a twenty-four (24) hours per day, seven (7) days per week basis for authorized MCI personnel and agents in facilities where such amenities are located in Collocation common areas. Where such amenities are not available within a Collocation common area and where Bell Atlantic has employees available on the premise, Bell Atlantic shall provide an escort for access to such facilities.

2.9 Bell Atlantic shall provide all ingress and egress of fiber and power cabling to MCI Collocated Spaces in compliance with MCI's reasonable cable diversity requirements. The specific level of diversity requested for each site or Network Element will be provided in the Collocation request. MCI shall pay Bell Atlantic any reasonable special construction charges incurred in providing MCI the requested level of diversity where said diversity is not available.

2.10 In a Collocation arrangement hereunder, Bell Atlantic shall protect MCI's Proprietary Information to the extent required by Applicable Law.

2.11 Bell Atlantic shall notify MCI's National Network Management Center at least five (5) business days prior to those instances when Bell Atlantic or its subcontractors know they will be performing work reasonably anticipated to affect MCI's service on the DC power plants which support MCI equipment. Bell Atlantic will inform MCI by telephone of any emergency related activity reasonably anticipated to affect MCI's service that Bell Atlantic or its subcontractors may be performing on the DC power plants which support MCI equipment. Notification of any emergency related activity shall be as soon as practicable so that MCI can take any action required to monitor or protect its service.

2.12 MCI shall submit a request to collocate equipment using the form attached as Exhibits A and B to this Attachment V. Promptly following MCI's submission of a

Collocation application. Bell Atlantic shall review the application, and within ten (10) business days, conduct a meeting with MCI to review the details of the application to assure that it is complete.

2.12.1 Within forty-five (45) days after the application review meeting, Bell Atlantic shall tender to MCI drawings of the proposed Collocation space. MCI shall review the drawings and either approve them or specify changes to the space design within thirty (30) days after receiving them. Promptly thereafter, Bell Atlantic and MCI shall agree on final drawings, specifications and charges for the requested space specified on MCI's application. Upon MCI's request, Bell Atlantic shall construct the Collocation space in substantial compliance with MCI's Collocation application.

2.13 MCI and Bell Atlantic will complete an acceptance walk through of the Collocated space constructed by Bell Atlantic. Exceptions from drawings and plans approved under Section 2.12 that would materially affect MCI's intended use of the space that are noted by MCI during this acceptance walk through shall be corrected, or the price otherwise adjusted, by Bell Atlantic within five (5) business days after the walk through unless otherwise agreed. The correction of these exceptions from the original Collocation application shall be at Bell Atlantic's expense.

2.14 Bell Atlantic shall provide telephone equipment drawings depicting the location, type, and cable termination requirements (*i.e.*, connector type, number and type of pairs, and naming convention) for Bell Atlantic point of termination bay(s) to MCI upon completion of Bell Atlantic construction of the MCI Collocation space.

2.15 Bell Atlantic shall provide drawings depicting available paths, with dimensions, for MCI outside plant fiber ingress and egress into MCI collocated space at the initial site implementation meeting between MCI and Bell Atlantic within ten (10) business days after Bell Atlantic's acceptance of MCI's request for collocated space. Such path and any areas around it in which MCI must work to perform installation shall be free of asbestos, lead paint (unless encapsulated), and other health or safety hazards to the same extent that comparable Bell Atlantic work areas in the same premises are free of such conditions.

2.16 Bell Atlantic shall provide power cabling connectivity information, including the sizes and number of power feeders, to MCI upon completion of Bell Atlantic construction of MCI Collocation space.

2.17 Bell Atlantic shall provide positive confirmation to MCI when its construction of MCI's Collocation space is fifty percent (50%) completed. This confirmation shall also include confirmation of the scheduled completion and turnover dates.

2.18 Bell Atlantic shall make commercially reasonable efforts to provide the following information to MCIIm within ten (10) business days after receipt of request from MCIIm unless otherwise agreed:

2.18.1 Work restriction guidelines.

2.18.2 Bell Atlantic or industry technical publication guidelines that impact the design of virtually collocated equipment.

2.18.3 Bell Atlantic contacts (names and telephone numbers) for the following areas:

- Engineering
- Physical & Logical Security
- Billing
- Operations
- Site and Building Managers
- Environmental and Safety

2.18.4 Escalation process for Bell Atlantic employees (names, telephone numbers and the escalation order) for any disputes or problems that might arise in connection with MCIIm's Collocation activities.

2.19 "Power" as referenced in this Section 2.19 refers to any electrical power source supplied by Bell Atlantic for MCIIm Collocation equipment. It includes necessary superstructure, infrastructure, and overhead facilities, including, but not limited to, cable, cable racks and bus bars. Bell Atlantic will supply power to support collocated MCIIm equipment at equipment-specific and industry standard DC and AC voltages. Bell Atlantic shall supply power to MCIIm at Parity with that provided by Bell Atlantic to itself or to any third party at the premises.

2.19.1 Central Office power supplied by Bell Atlantic into the MCIIm equipment area shall be supplied in the form of power feeders (cables) on cable racking into the designated MCIIm equipment area. The power feeders (cables) shall support the requested quantity and capacity of MCIIm equipment in accordance with the Collocation Tariff. The termination location shall be as reasonably requested by MCIIm.

2.19.2 Bell Atlantic shall provide power as reasonably requested by MCIIm to meet MCIIm's need for the interconnection and placement of equipment in accordance with Tariff.

2.19.3 Bell Atlantic power equipment supporting MCIIm's equipment shall:

2.19.3.1 Comply in material respects with applicable industry standards (e.g., Bellcore, and NEBS) for equipment installation, cabling practices, and physical equipment layout:

2.19.3.2 Have redundant power feeds with physical diversity and battery back-up for MCIIm equipment at Parity with that provided for similar Bell Atlantic equipment at the same premises. Power requirements for remote switching equipment, if any is collocated, and physical diversity for power feeds where such diversity is not already available, may require special construction.

2.19.3.3 Upon MCIIm's request, Bell Atlantic will provide prices and specifications for unique battery and power requirements, including those for other types of equipment that can be collocated under this Agreement:

2.19.3.4 Provide Central Office ground, connected to a ground electrode in compliance with applicable industry standards. Central Office ground for remote switching equipment, if any is collocated, may require special construction; and

2.19.3.5 Provide feeder capacity and quantity to support the equipment layout for MCIIm equipment in accordance with MCIIm's Collocation application. Feeder capacity for remote switching equipment, if any is collocated, may require special construction.

2.19.4 Bell Atlantic shall use commercially reasonable efforts to, within forty-five (45) days after MCIIm's application:

2.19.4.1 Provide documentation submitted to and received from contractors for any contractor bids for any work being done on behalf of MCIIm (except for any work that is covered by a Tariffed rate):

2.19.4.2 Provide MCIIm access to its Collocation space upon completion of construction that will provide safe and secure access to the Collocation space:

2.19.4.3 Provide cabling that adheres in all material respects to Bell Communication Research ("Bellcore") Network Equipment-Building System ("NEBS") standards TR-EOP-000063; and

2.19.4.4 Provide Lock Out-Tag Out and other electrical safety procedures and devices in conformance with agreed OSHA or industry guidelines.

2.20 Bell Atlantic shall provide virtual Collocation where physical Collocation is not practical for technical reasons or because of space limitations. Bell Atlantic shall take

collocator demand into account when renovating existing facilities and constructing or leasing new facilities.

2.21 Standard intervals for physical Collocation shall be one hundred twenty (120) days from the date an application is finalized and approved by the Parties. Virtual Collocation will have a standard interval of sixty (60) days from the foregoing date.

2.22 MCIIm may collocate only that equipment which is used for interconnection and access to Network Elements. MCIIm may collocate the quantity and type of such equipment it reasonably deems necessary in its Collocation space, provided that the equipment meets Bellcore specifications. Approved vendors will, at a minimum, be vendors Bell Atlantic currently approves for their own use. Bell Atlantic will not unreasonably withhold approval of additional vendors whose equipment meets Bellcore specifications.

2.23 MCIIm may choose to lease unbundled transport from Bell Atlantic or a third carrier for the purpose of connection to MCIIm collocated equipment, rather than construct to such facilities, all in accordance with FCC Rules and Regulations.

2.24 Bell Atlantic will maintain MCIIm's virtually collocated equipment in Parity with how it maintains its own equipment. Such maintenance shall include the change out of electronic cards provided by MCIIm and per MCIIm's request.

### ***Section 3. License***

Bell Atlantic hereby grants MCIIm a license to occupy any premises or rack space which contain collocated equipment as permitted hereunder, including without limit all necessary ingress and egress, all in accordance with the terms and conditions of this Agreement including this Attachment V.

**EXHIBIT A**

# EXHIBIT A



## VIRTUAL COLLOCATION APPLICATION

DATE SENT \_\_\_\_ / \_\_\_\_ / \_\_\_\_      VERSION \_\_\_\_\_

### I CUSTOMER INFORMATION

1. Company Name \_\_\_\_\_  
     Street \_\_\_\_\_  
     City/Town/State/Zip \_\_\_\_\_
2. 24 Hour Emergency Contact Number \_\_\_\_\_
3. Contact Name \_\_\_\_\_  
     Telephone Number \_\_\_\_\_ Facsimile Number \_\_\_\_\_
4. Desired Service Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_
5. Activity:   New \_\_\_\_   Augment \_\_\_\_   Other \_\_\_\_
6. Percent Interstate Usage (PIU) \_\_\_\_\_
7. Central Office CLLI Code \_\_\_\_\_
8. ACNA \_\_\_\_\_

### II TYPE OF SERVICE

Initial Terminations Required: DS3 \_\_\_\_\_ DS1 \_\_\_\_\_ DS0 \_\_\_\_\_

Incremental Quantities of Desired Services:

Interface (Cross-Connect) Forecast:

Service (Channel Termination) Forecast:

	Year 1	Year 2	Year 3
DS3	_____	_____	_____
DS1	_____	_____	_____
DS0	_____	_____	_____

	Year 1	Year 2	Year 3
DS3	_____	_____	_____
DS1	_____	_____	_____
DS0	_____	_____	_____

Ex: Interface - 2 DS3s; Service - 25 DS1s, 420 DS0s with muxing provided by Bell Atlantic

Is Synchronization To Be Provided By Access Provider?      Yes       No

Official Use Only  
Date Received \_\_\_\_\_  
D P Received \_\_\_\_\_

© Bell Atlantic

VIRTUAL COLLOCATION APPLICATION

III EQUIPMENT REQUIREMENTS

1. List of Access Customer's Designated Equipment

(NOTE: Please specify the type, size and quantity of equipment to be installed so that adequate power and environmental safeguards can be provided. Also, please attach a copy of the product's Technical Description.)

<u>Manufacturer/Model #</u>	<u>Size</u>	<u>Quantity</u>	<u>CLEI*</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Will Bell Atlantic be Designated to Install the Equipment? Yes  No

If no, Provide Bell Atlantic Approved Vendor Name \_\_\_\_\_  
Vendor Contact Number \_\_\_\_\_

(\*) Bellcore common Language Equipment Identification TM Common Language is a Registered trademark and CLEI, CLLI, CLFI and CLCI are trademarks of Bell Communications Research, Inc. (Bellcore)

2. List of Required Plug-in Units

(NOTE: Please indicate the circuit number or slot where the plug-in unit is to be installed, as required by the Access Provider's practices.)

<u>Manufacturer Model #</u>	<u>Slot Circuit #</u>	<u>Quantity</u> <u>In Service Protection</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____



### VIRTUAL COLLOCATION APPLICATION

#### 4. List of Required Test/Maintenance Spare Equipment

Manufacturer/Model#	Qty	CLEI
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Heat Dissipation Requirements: \_\_\_\_\_ (WATTS)

#### IV OUTSIDE PLANT FIELD SURVEY

##### 1. Cable Information

A. Direction from where cable will originate:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. Have Licensing Agreements for this location been established (e.g., conduit)?  
Yes  No  (Note: If Yes, please provide Contract Number.)

C. Contract Number \_\_\_\_\_

D. Dual Building Entrance Requested Yes  No

E. Dual Riser Cables Requested Yes  No

##### 2. Cable Requirements

Feeder

Riser

A. Number of Cables To Be Placed	_____	_____
B. Size of Cables (Diameter)	_____	_____
C. Number of Fibers per Cable	_____	_____



**EXHIBIT B**



**© Bell Atlantic**

**PHYSICAL COLLOCATION APPLICATION**

**III FLOOR SPACE REQUIREMENTS**

- 1. Number of equipment frames to be installed \_\_\_\_\_
- 2. Amount of space required \_\_\_\_\_  
(Square foot increments are based on tariff)
- 3. Attach preferred floor plan layout for space (footprint)
- 4. Are there other environmental, enclosure or security requirements? Yes \_\_\_ No \_\_\_  
(If yes, additional charges may apply. Please attach details of additional requirements.)

**IV. TECHNICAL EQUIPMENT SPECIFICATIONS**

- 1. DC Power Requirements
  - A. -48v Battery and Ground. A & B supplies number of (A & B) feeds \_\_\_\_\_
  - B. Number of AMPS required per A & B feed (maximum 60 amp) \_\_\_\_\_
- 2. Special AC Power Requirements? Yes \_\_\_ No \_\_\_  
(If yes, additional charges may apply. Please attach details if required.)
- 3. Heat Dissipation Requirements \_\_\_\_\_ (WATTS)
- 4. List of Access Customer's Installed Equipment  
(Please specify type, size and quantity so that adequate power and environmental safeguards can be provided. Also, please attach a copy of the product's technical description.)

Manufacturer/Model #	Physical Dimensions	Qty
1. _____	_____	_____
2. _____	_____	_____
3. _____	_____	_____
4. _____	_____	_____

Total anticipated equipment load \_\_\_\_\_ (AMPS)

**© Bell Atlantic**

**PHYSICAL COLLOCATION APPLICATION**

**V OUTSIDE PLANT FIELD SURVEY**

**1. Cable Information**

A. Direction from where cable will originate

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

B. Have Licensing Agreements for this location been established (e.g., conduit)?  
Yes \_\_\_\_\_ No \_\_\_\_\_ (If Yes, please provide Contract Number)

C. Contract Number \_\_\_\_\_

D. Dual Building Entrance Requested      Yes \_\_\_\_\_ No \_\_\_\_\_

E. Dual Riser Cables Requested            Yes \_\_\_\_\_ No \_\_\_\_\_

**2. Cable Requirements**

**Feeder**

**Riser**

A. Number of Cables To Be Placed      \_\_\_\_\_

B. Size of Cables (Diameter)            \_\_\_\_\_

C. Number of Fibers per Cable           \_\_\_\_\_

**3. Cable Makeup**

A. Cable Designation and Count \_\_\_\_\_

B. Name of Fiber Manufacturer \_\_\_\_\_

C. Name of Cable Manufacturer \_\_\_\_\_

D. Type of Single Mode Fiber Used (e.g., Dual Window, Dispersion Shifted)  
\_\_\_\_\_

E. Loss Decibels per Kilometer \_\_\_\_\_

**© Bell Atlantic**

**PHYSICAL COLLOCATION APPLICATION**

**VI ACCESS CUSTOMER'S VENDOR SELECTION**

- 1. **Engineering Vendor** \_\_\_\_\_  
 Address \_\_\_\_\_  
 Telephone Number \_\_\_\_\_
  
- 2. **Outside Plant Vendor** \_\_\_\_\_  
 (For cable placement)  
 Address \_\_\_\_\_  
 Telephone Number \_\_\_\_\_
  
- 3. **Outside Plant Vendor** \_\_\_\_\_  
 (For cable splicing)  
 Address \_\_\_\_\_  
 Telephone Number \_\_\_\_\_
  
- 4. **Installation Vendor** \_\_\_\_\_  
 (For customer's equipment)  
 Address \_\_\_\_\_  
 Telephone Number \_\_\_\_\_
  
- 5. **Installation Vendor** \_\_\_\_\_  
 (For riser cable)  
 Address \_\_\_\_\_  
 Telephone Number \_\_\_\_\_

**VII CERTIFICATE OF INSURANCE**

Certificate of Insurance must accompany all applications for new sites  
If this is a new site, please indicate that the certificate is included. Yes \_\_\_ No \_\_\_



## TABLE OF CONTENTS

### Attachment VI Rights of Way, Conduits, Pole Attachments

Section 1.	Definitions	VI - 1
Section 2.	Scope of Licenses	VI - 3
Section 3.	Fees and Charges	VI - 4
Section 4.	Advance Payments	VI - 4
Section 5.	Specifications	VI - 5
Section 6.	Legal Requirements	VI - 6
Section 7.	Issuance of Licenses	VI - 7
Section 8.	Pre-License Survey and Make-Ready Work	VI - 8
Section 9.	Construction, Maintenance and Removal of Communications Facilities	VI - 10
Section 10.	Termination of Licenses	VI - 13
Section 11.	Inspection of Licensee's Communications Facilities	VI - 13
Section 12.	Unauthorized Attachment, Utilization or Occupancy	VI - 14
Section 13.	Security Interest	VI - 14
Section 14.	Damages	VI - 15
Section 15.	Insurance	VI - 15
Section 16.	Authorization Not Exclusive	VI - 16
Section 17.	Assignment of Licenses	VI - 16
Section 18.	Additional Terminations	VI - 17
Section 19.	Term of Licenses	VI - 18
Appendix I	Schedule of Fees and Charges	
Appendix II	Administrative Forms and Notices	

## ATTACHMENT VI

### Rights of Way, Conduits, Pole Attachments

#### *Introduction*

This Attachment VI sets forth the terms and conditions applicable to MCI's access to Poles, Conduits and Rights of Way owned or controlled by Bell Atlantic pursuant to Section 224 of the Act.

#### *Section 1. Definitions*

As used solely in this Attachment VI, the following terms shall have the following meanings. All other terms defined in the Agreement, including Part B, shall continue to apply within this Attachment.

##### **1.1 Anchor**

An assembly (rod and fixed object or plate) designed to resist the pull of a Guy Strand.

##### **1.2 Conduit**

A tube structure containing one or more Ducts or Innerducts used to house communication cables, that is owned by Bell Atlantic or with respect to which Bell Atlantic has the right to authorize the occupancy of MCI's Communications Facilities.

##### **1.3 Conduit Occupancy**

Occupancy of a Conduit System by any item of MCI's Communications Facilities.

##### **1.4 Conduit Section**

Conduit between two adjacent Manholes or between a Manhole and an adjacent Pole or other structure.

##### **1.5 Conduit System**

Any combination of Ducts, Innerducts, Conduits, and Manholes joined to form an integrated whole, including Central Office and other cable vaults (excluding controlled environmental vaults).

##### **1.6 Duct/Innerduct**

An enclosed raceway for communication facilities contained in a Conduit.

### **1.7 Guy Strand**

A metal cable attached to a Pole and Anchor (or another structure) for the purpose of increasing Pole stability.

### **1.8 MCI's Communications Facilities**

All facilities, including but not limited to cables, equipment and associated hardware, owned or utilized by MCI in providing communication services, which are attached to a Pole or occupy a Conduit or Right of Way.

### **1.9 Manhole**

A subsurface enclosure used for the purpose of installing, operating and maintaining communications facilities, including handholes.

### **1.10 Make-Ready Work**

All work, including but not limited to the rearrangement and/or transfer of Bell Atlantic's existing facilities and administering the rearrangement and/or transfer of the facilities of other licensees, replacement of a Pole, or other changes required to accommodate MCI's Communications Facilities on a Pole, or in a Conduit or Right of Way.

### **1.11 Pole**

A Pole with respect to which Bell Atlantic owns or has the right to authorize the attachment of MCI's Communications Facilities.

### **1.12 Pole Attachment**

Any item of MCI's Communications Facilities affixed to a Pole.

1.12.1 Horizontal attachment is for a single Pole Attachment associated with Pole to Pole construction.

1.12.2 Vertical attachment is for single Pole construction where MCI's facilities are affixed along the vertical axis of the Pole.

### **1.13 Prelicense Survey**

All work, including field inspection and administrative processing, to determine the Make-Ready Work necessary to accommodate MCI's Communications Facilities on a Pole, or in a Conduit or Right of Way.

#### 1.14 Right of Way

A right possessed by Bell Atlantic to use or pass over or under the land of another, with respect to which Bell Atlantic has the right to authorize the usage or passage of MCI's Communications Facilities over or through such land. Notwithstanding the foregoing, for the purposes of this Attachment VI, Right of Way shall also include real property owned by Bell Atlantic that contain Poles or Conduit or that would typically be used for such purposes.

### *Section 2. Scope of Licenses*

2.1 Subject to the provisions of this Agreement, for license applications granted by Bell Atlantic in accordance with Section 7 below, Bell Atlantic hereby grants to MCI, for any lawful communications purpose, a nonexclusive license authorizing the attachment of MCI's Communications Facilities to Poles, or the placement of MCI's Communications Facilities in Bell Atlantic's Conduits or Rights of Way, as specified in the pertinent application.

2.2 No use, however extended, of Poles, Conduits and/or Rights of Way, or payment of any fees or charges required, under this Agreement, shall create or vest in MCI any easements or any other ownership of property rights of any nature in such Poles, Conduits and/or Rights of Way. MCI's rights herein shall be and remain a license. Neither this Agreement nor any license granted hereunder shall constitute an assignment of any of Bell Atlantic's rights to use the public or private property at locations of such Poles, Conduits, and/or Rights of Way.

2.3 Nothing contained in this Agreement shall limit Bell Atlantic's right to locate and maintain its Poles, Conduits and Rights of Way, and to operate its facilities in conjunction therewith, in such a manner as will best enable it to fulfill its own service requirements consistent with its obligations under Applicable Law.

2.4 Bell Atlantic shall grant MCI access to Poles, Conduits and/or Rights of Way at Parity and on a Non-Discriminatory basis, except as may be otherwise permitted under Applicable Law. In cases where Bell Atlantic does not have the right to authorize such access, Bell Atlantic shall reasonably cooperate with MCI in obtaining such permission subject to Bell Atlantic's right to provide a reasonable technical evaluation of the requirements for such access to the owner or other authorizing party. Nothing shall preclude MCI from obtaining any such additional authorization without requesting Bell Atlantic's cooperation. Upon reasonable request by MCI, Bell Atlantic will provide any documentation that is not confidential or privileged in its possession supporting a claim that it does not own or have authority to grant access to a given Right of Way.

### *Section 3. Fees and Charges*

3.1 MCIIm is responsible for all fees and charges applicable in connection with the attachment of its Communications Facilities to a Pole, or occupancy of a Conduit or Right of Way, as specified in Appendix I to this Attachment VI and hereby made a part of this Agreement. Such fees and charges shall be in accordance with Section 224 of the Act.

3.2 Nonpayment of any amount due under this Attachment VI shall constitute a breach by MCIIm of this Agreement and shall be resolved in accordance with Part A, Section 21 (Default and Termination). Late payments shall be subject to fees as prescribed in Attachment VIII, Section 3.

3.3 At such time that MCIIm's "net worth" (as defined under generally accepted accounting principles, hereinafter "Net Worth") fails to exceed \$100,000,000, Bell Atlantic may require a bond in a form satisfactory to Bell Atlantic or other satisfactory evidence of financial security in such amount as Bell Atlantic from time to time may reasonably require to guarantee the performance of all MCIIm obligations hereunder. The amount of the bond or financial security shall not operate as a limitation upon the obligations of MCIIm hereunder; and if MCIIm furnishes a deposit of money pursuant to this section, such deposit may be held during the continuance of this Agreement at the option of Bell Atlantic as security for any and all amounts which are or may become due to Bell Atlantic under this Attachment VI.

3.4 On an annual basis, changes in the amount of the fees and charges specified in Appendix I may be made by Bell Atlantic upon at least sixty (60) days prior written notice to MCIIm in the form of a revised Appendix I, and MCIIm agrees to pay such changed fees and charges provided they are in accordance with Applicable Law. Notwithstanding any other provision of this Agreement, MCIIm may terminate the licenses entered into pursuant to Section 7 below at the end of such notice period if the change in fees and charges is not acceptable to MCIIm, by giving Bell Atlantic written notice of its election to terminate such licenses at least thirty (30) days prior to the end of such notice period.

### *Section 4. Advance Payments*

4.1 At such time that MCIIm's Net Worth fails to exceed \$100,000,000, MCIIm shall be required to make an advance payment to Bell Atlantic prior to:

4.1.1 Any undertaking by Bell Atlantic of a Prelicense Survey or the administrative processing of such a survey in an amount sufficient to cover the estimated charges for completing the specific work operation required; and

4.1.2 Performance by Bell Atlantic of any Make-Ready Work required in an amount sufficient to cover the estimated charges for completing the required Make-Ready Work.

4.2 The amount of the advance payment required (Appendix II, Forms A-1, B-1 and B-4) will be credited against the payment due Bell Atlantic for performing the Prelicense Survey and/or Make-Ready Work.

4.3 Where the advance payment is less than the charge by Bell Atlantic for such work, MCIIm agrees to pay Bell Atlantic within thirty (30) days of receipt of the bill all sums due in excess of the amount of the advance deposit.

4.4 Where the advance payment exceeds the charge by Bell Atlantic for such work, Bell Atlantic shall refund the difference to MCIIm.

### *Section 5. Specifications*

5.1 MCIIm's Communications Facilities shall be placed and maintained in accordance with the requirements and specifications of the current editions of the Bellcore Manual of Construction Procedures ("Blue Book"), the National Electrical Code ("NEC"), the National Electrical Safety Code ("NESC"), the rules and regulations of the Occupational Safety and Health Act ("OSHA"), and regulations or directives of a governing authority having jurisdiction over such subject matter. Where a difference in specifications may exist, the more stringent shall apply.

5.2 MCIIm shall correct all material safety violations within ten (10) days from receipt of written notice from Bell Atlantic. MCIIm shall correct all other non-standard conditions within thirty (30) days from receipt or written notice from Bell Atlantic. If MCIIm does not correct any violation within the aforementioned time limits, Bell Atlantic may at its option correct said conditions at MCIIm's expense.

5.3 Notwithstanding Subsection 5.2 above, when conditions created by MCIIm's Communications Facilities pose an immediate threat to the safety of Bell Atlantic's employees or the public, interfere with the performance of Bell Atlantic's service obligations, or pose an immediate threat to the physical integrity of Bell Atlantic's facilities or structures, Bell Atlantic may perform such work and/or take such action as it deems necessary without first giving written notice to MCIIm. As soon as practicable thereafter, Bell Atlantic will advise MCIIm in writing of the work performed or the action taken and will endeavor to arrange for reaccommodation of MCIIm's facilities so affected. MCIIm shall pay Bell Atlantic for all reasonable costs incurred by Bell Atlantic in performing such work.

5.4 The failure of Bell Atlantic to notify MCIIm of violations or to correct violations pursuant to Subsections 5.2 or 5.3 shall not relieve MCIIm of its responsibility to place and maintain its facilities in a safe manner and condition in accordance with the terms of

this Attachment VI, and shall not relieve MCIIm of any liability imposed by this Agreement.

5.5 Bell Atlantic and MCIIm agree to resolve disputes arising under this Attachment VI as set forth in Section 24, Part A of this Agreement.

### ***Section 6. Legal Requirements***

6.1 If Bell Atlantic's authority to occupy a Pole, Conduit or Right of Way does not allow MCIIm to place its facilities thereon or therein without some additional authorization or government approval, MCIIm shall be responsible for obtaining from the appropriate public and/or private authority any such additional authorization to construct, operate and/or maintain its communication facilities on public and/or private property before it attaches its communication facilities to Poles, or occupies Conduit or Rights of Way, located on such public and/or private property. Evidence of MCIIm's having obtained such additional authority to so construct and maintain facilities shall be submitted forthwith upon demand.

6.2 No license granted under this Agreement shall extend to any Pole, Conduit or Right of Way where the attachment or placement of MCIIm's Communication Facilities would result in a forfeiture of rights of Bell Atlantic or its existing licensees to occupy the property on which such Poles, Conduits or Rights of Way are located. If the existence of MCIIm's Communication Facilities on a Pole, or in a Right of Way or Conduit, would cause a forfeiture of the right of Bell Atlantic or its existing licensees to occupy such property, Bell Atlantic shall promptly notify MCIIm in writing describing the circumstances of forfeiture with reasonable specificity. Bell Atlantic and MCIIm shall cooperate in taking reasonable and prompt action to avoid such forfeiture, which may include obtaining a stay or other equitable relief. If such actions are not successful prior to forfeiture becoming imminent, then MCIIm shall remove its Communications Facilities forthwith upon receipt of written notification from Bell Atlantic. In such case, and provided MCIIm's facilities were placed in space authorized by Bell Atlantic, Bell Atlantic shall reimburse MCIIm for the full costs of the Preliminary Survey and Make-Ready Work charges (if any, or if shared and paid by MCIIm, those charges solely attributable to MCIIm's facilities) paid by MCIIm to Bell Atlantic, plus the costs of removing MCIIm's Communications Facilities; provided that where all parties, including Bell Atlantic, must remove all communications facilities from the property, MCIIm shall remove its Communications Facilities without reimbursement by Bell Atlantic. If MCIIm fails to remove said Communication Facilities as provided above, Bell Atlantic may perform or have performed such removal after the expiration of ten (10) days after the receipt of said written notification without liability on the part of Bell Atlantic, and MCIIm agrees to pay Bell Atlantic or other licensees or both, the cost thereof and for all losses and damages that may result, including, but not limited to, relocation costs of Bell Atlantic's facilities.

### *Section 7. Issuance of Licenses*

7.1 Before MCI shall attach to any Pole, or occupy any portion of a Conduit or Right of Way, MCI shall make written application for and have received written license from Bell Atlantic utilizing the following forms: Appendix II, Forms A-1 and A-2 and/or B-1 through B-3. Bell Atlantic shall follow the same process in attaching to, or occupying, such Poles, Conduits or Rights of Way.

7.2 Bell Atlantic shall process all completed license applications, including the performance of a Prelicense Survey, on a first-come, first-serve basis (including all license applications pertaining to itself) in accordance with the provisions of Sections 7 and 8 of this Attachment VI. Bell Atlantic shall make all access determinations in accordance with the requirements of Applicable Law, considering such factors as capacity, safety, reliability and general engineering considerations to the degree allowed by Section 224 of the Act, or, in the alternative, applicable state law. Bell Atlantic shall inform MCI in writing as to whether an application has been granted or denied (stating the reasons for such denial in reasonable detail) within forty-five (45) days after receipt of such application. Where an application involves an increase in capacity by Bell Atlantic, Bell Atlantic shall take reasonable steps to accommodate requests for access in accordance with Applicable Law, including making such determinations in the same manner as it would for itself. Before denying MCI access based on lack of capacity, Bell Atlantic shall explore potential accommodations in good faith with MCI. MCI shall bear the costs associated with any such expansion performed by Bell Atlantic in accordance with Applicable Law, provided that MCI shall be entitled to recover costs from subsequent licensees (including Bell Atlantic) that attach to or occupy such expanded capacity as provided by Applicable Law. Bell Atlantic shall provide reasonably detailed information on any environmental contamination or other environmental hazards of which it is aware for the specified route within twenty (20) days of the date of the application.

7.3 In order to facilitate MCI's completion of an application, Bell Atlantic shall make commercially reasonable efforts to, within ten (10) business days of a legitimate request identifying the specific geographic area and types and quantities of required structures, provide MCI such maps, plats or other relevant data reasonably necessary to complete the applications described above. All such materials and information shall be treated as Confidential Information by MCI in accordance with the provisions of Part A, Section 22. Such requests shall be processed by Bell Atlantic on a "first-come, first-serve" basis. Bell Atlantic shall also make commercially reasonable efforts to meet with or respond to MCI's inquiries regarding the information supplied to it under this Section 7.3 within five (5) business days following the receipt of such a request for a meeting or inquiry from MCI. Bell Atlantic shall also notify MCI of any environmental contamination or other environmental hazards of which it is aware that would make the placement of facilities within pathways specified by MCI hazardous.

7.4 License applications received by Bell Atlantic from two (2) or more applicants for the same Pole, Conduit Section or Right of Way will be processed by Bell Atlantic according to the order in which the applications are received by Bell Atlantic. Once any additional applicants file an application, Bell Atlantic shall use commercially reasonable efforts to, within twenty (20) days of receipt of the additional application, notify the additional applicant of the following: 1) that a previous application had been received for some or all of the same structures or property; 2) the name and address of the initial applicant; and 3) that the additional applicant may wish to share make ready costs with the initial applicant. The responsibility for arranging for the sharing of make ready costs shall be on the additional applicant. However, the responsibility for transmitting to Bell Atlantic any make ready changes resulting from the additional applicant shall be on the initial applicant, provided that the initial applicant is not obligated to share Make-Ready Work or make ready costs with any subsequent applicant, unless required by Applicable Law. Bell Atlantic shall bill the initial applicant for the entire cost of all work necessary to accommodate both the initial and additional applicants, pursuant to executed Form B-4, Appendix II.

7.5 If within twelve (12) months from the date a license is granted by Bell Atlantic, MCI shall not at a minimum have initiated material construction or similar activity related to its attachment or occupation. MCI's license for the applicable Poles, Conduits or Rights of Way shall automatically terminate and MCI shall remove any communications facilities installed as of such date in accordance with Section 9.10 of this Attachment VI. MCI and any other attacher or occupier (including Bell Atlantic) shall be liable for attachment or occupancy charges commencing on the date that the license is granted if no Make-Ready Work is required, or on the date that any required Make-Ready Work is completed.

7.6 Where Bell Atlantic has available ducts or inner ducts, Bell Atlantic shall make available ducts or inner ducts to MCI for MCI's use in accordance with Applicable Law. No more than one full-sized duct (or one full-sized and one inner duct if both copper and fiber cable are used in the Conduit) shall be assigned as an emergency duct in each Conduit Section. If Bell Atlantic or any other service provider, including MCI, utilizes the last unoccupied full-sized duct in the applicable cross-section, that provider shall promptly, at its expense, reestablish a clear, full-sized duct for emergency restoration or immediately upon the occurrence of an emergency requiring such space.

### ***Section 8. Pre-License Survey and Make-Ready Work***

8.1 When an application for attachment to, or occupation of, a Pole, Conduit or Right of Way is submitted by MCI, a Prelicense Survey will be required to determine the existing adequacy of such structures or property to accommodate MCI's Communication Facilities.

8.1.1 The field inspection portion of the Prelicense Survey, which requires the visual inspection of such structures or property, shall be performed by Bell

Atlantic (with participation by MCI at its option, for which Bell Atlantic shall provide at least twenty-four (24) hours advance notice). Bell Atlantic shall also perform the administrative processing portion of the Prelicense Survey which includes the processing of the application and the preparation of the Make-Ready Work orders (if necessary), including the notification of other attachers of Bell Atlantic's Make-Ready Work schedule and the provision to MCI of a list of such other attachers.

8.1.2 Bell Atlantic shall make commercially reasonable efforts to advise MCI in writing of the estimated charges that will apply for its Prelicense Survey work as soon as practicable after receipt of MCI's application but no later than ten (10) days from receipt thereof. Bell Atlantic shall receive written authorization from MCI before undertaking such work (Appendix II, Form B-1). Alternatively, MCI may pay Bell Atlantic the estimated charges that will apply for a Prelicense Survey with its submission of an application provided that Bell Atlantic has advised MCI that standard estimated charges exist for the type of application that is being submitted.

8.2 In the event Bell Atlantic determines that a Pole, Conduit or Right of Way which MCI desires to utilize is inadequate or otherwise needs rearrangement or expansion of the existing structures or property to accommodate MCI's Communication Facilities, Bell Atlantic will advise MCI in writing of the estimated Make-Ready Work charges that would apply to any modifications or expansions of capacity that Bell Atlantic proposes to undertake (Appendix II, Form B-4). The estimated Make-Ready Work charges and completion date shall be given to MCI at the time that the application is accepted and access is granted. Bell Atlantic shall complete the steps described in paragraphs 8.1 through 8.2 within forty-five (45) days of the date the application is submitted, excluding the time taken by MCI to respond to Bell Atlantic's proposals in paragraph 8.1.2, if applicable.

8.3 MCI shall have thirty (30) days after the receipt of said Form B-4 to indicate its written authorization for completion of the required Make-Ready Work and acceptance of the resulting charges. If during such period MCI presents Bell Atlantic with a proposal from a Bell Atlantic-authorized subcontractor to complete such Make-Ready Work at a cost and/or time that is materially less than that estimated by Bell Atlantic, Bell Atlantic agrees to use such subcontractor to perform the Make-Ready Work. Bell Atlantic shall use commercially reasonable efforts to provide written notice to existing attachers or occupiers of the affected structures or property of the proposed Make-Ready Work within ten (10) days after receipt of MCI's authorization to perform such work. Such attachers or occupiers will be given sixty (60) days after such notice to indicate whether they desire to participate in the proposed modification or expansion.

8.4 If approved by MCI, Make-Ready Work will be initiated by Bell Atlantic no earlier than sixty (60) days after notice to existing attachers or occupiers, and Bell Atlantic shall use commercially reasonable efforts to complete such work as soon as practicable

thereafter, depending upon the size of the job and the cooperation of necessary third parties. MCI shall pay Bell Atlantic for all Make-Ready Work performed by it in accordance with the provisions of this Agreement, and make arrangements with attachers or occupiers participating in the modification or expansion (including Bell Atlantic, if applicable), and with future attachers or occupiers who benefit from the modification or expansion, to reimburse MCI for their share of the make ready costs as required by Applicable Law.

***Section 9. Construction, Maintenance and Removal of Communications Facilities***

9.1 MCI shall, at its own expense, construct and maintain its Communications Facilities on Poles or in Conduits or Rights of Way covered by this Attachment VI, in a safe condition and in a manner acceptable to Bell Atlantic, so as not to physically conflict or electrically interfere with the facilities attached thereon or placed therein by Bell Atlantic or other authorized licensees.

9.2 Bell Atlantic shall specify the point of attachment on each Pole to be occupied by MCI's Communications Facilities. Where communications facilities of more than one licensee are involved, Bell Atlantic will attempt, to the extent practical, to designate the same relative position on each Pole for MCI's Communications Facilities.

9.3 Subject to Section 9.10 of this Attachment VI, MCI shall secure Bell Atlantic's written consent, not to be unreasonably withheld or delayed, before adding to, relocating, replacing or otherwise modifying its facilities attached to a Pole where additional space or holding capacity may be required on either a temporary or permanent basis. No such modifications shall be made by MCI that would affect the placement or operations of attachments of Bell Atlantic or existing licensees, except through application to Bell Atlantic in accordance with the provisions of Sections 7 and 8 of this Attachment VI.

9.4 MCI must obtain prior written authorization from Bell Atlantic approving the work and the party performing such work before MCI shall install, remove, or provide maintenance of its Communications Facilities in any of Bell Atlantic's Conduit Systems. Bell Atlantic shall not withhold such authorization without good cause.

9.5 In each instance where MCI's Communications Facilities are to be placed in Bell Atlantic's Conduits, MCI and Bell Atlantic shall discuss the placement of MCI's Communications Facilities. Bell Atlantic shall designate the particular Duct(s) to be occupied, the location and manner in which MCI's Communications Facilities will enter and exit Bell Atlantic's Conduit System, and the specific location and manner of installation for any associated equipment which is permitted by Bell Atlantic to occupy the Conduit System. Bell Atlantic will attempt, to the extent practicable and consistent with its non-discrimination obligations, to designate the same relative position in each Conduit bank for each MCI facility.

9.6 Whenever Bell Atlantic intends to modify or alter any Poles, Conduits or Rights of Way which contain MCIm's facilities, Bell Atlantic shall provide written notification to MCIm at least sixty (60) days prior to taking such action so that MCIm may have a reasonable opportunity to add to or modify MCIm's facilities. If MCIm adds to or modifies MCIm's facilities according to this paragraph, MCIm shall bear a proportionate share of the costs incurred by Bell Atlantic in making such facilities accessible in accordance with Applicable Law.

9.7 MCIm shall be notified in writing at least sixty (60) days prior to any modification that will result in the rearrangement or replacement of its facilities. Subject to Section 9.6 above, MCIm shall not be required to bear any of the costs of rearranging or replacing its facilities, if such rearrangement or replacement is required as a result of an additional attachment or the modification of an existing attachment sought by any entity other than MCIm, including Bell Atlantic. MCIm agrees to make such rearrangements or replacements that are reasonably requested by Bell Atlantic to accommodate the attachment or placement of the facilities of other licensees on the applicable structures.

9.8 Bell Atlantic shall not attach, nor permit other entities to attach facilities on, within or overlashed to existing MCIm facilities without MCIm's prior written consent.

9.9 Bell Atlantic's Manholes shall be opened only as permitted by Bell Atlantic's authorized employees or agents. MCIm shall be responsible for obtaining any necessary authorization from appropriate authorities to open Manholes and conduct work operations therein. Except in emergency situations provided that MCIm makes reasonable efforts to give prior notice to Bell Atlantic, MCIm's employees, agents or contractors will be permitted to enter or work in Bell Atlantic's Manholes only when an authorized employee or agent of Bell Atlantic is present or prior written authorization waiving this requirement is granted by the Bell Atlantic. Bell Atlantic's said employee or agent shall have the authority to suspend MCIm's work operations in and around Bell Atlantic's Manholes if, in the reasonable judgment of said employee or agent any hazardous conditions arise or any unsafe practices are being followed by MCIm's employees, agents, or contractors. MCIm agrees to pay Bell Atlantic the charges, as determined in accordance with the terms and conditions of Appendix I of this Attachment VI, for having one Bell Atlantic employee or agent present when MCIm's work is being done in and around Bell Atlantic's Manholes. The presence of Bell Atlantic's authorized employee or agent shall not relieve MCIm of its responsibility to conduct all of its work operations in and around Bell Atlantic's Manholes in a safe and workman-like manner, in accordance with the terms of this Agreement.

9.10 Bell Atlantic shall maintain its Poles, Conduits and Rights of Way without additional charge to MCIm beyond the charges provided for in this Attachment VI. MCIm shall maintain its own facilities installed on or within Bell Atlantic's Poles, Conduits and Rights of Way at its sole cost. In the event of an emergency, Bell Atlantic shall use commercially reasonable efforts to begin repair of its structures containing MCIm's facilities within two (2) hours of notification by MCIm. If Bell Atlantic cannot

begin repair within such two (2) hour period. MCI may, using qualified personnel and reasonable care, begin such repairs without the presence of Bell Atlantic personnel. MCI may climb Poles and enter the Manholes, handholes, Conduits and equipment spaces containing Bell Atlantic's facilities in order to perform such emergency maintenance, but only until such time as qualified personnel of Bell Atlantic arrives ready to continue such repairs. For emergency and non-emergency repairs, MCI may use spare Innerduct or Conduits, including the Innerduct or Conduit designated by Bell Atlantic as emergency spare for maintenance purposes; however, MCI may only use such spare Conduit or Innerduct until its repairs are completed but in no event for a period of greater than ninety (90) days, and shall terminate any non-emergency use immediately upon notification of an emergency warranting the use of such spare by Bell Atlantic or other licensees. The Parties agree to cooperate with one another with respect to the use of spare Innerduct or Conduit during any emergency affecting MCI, Bell Atlantic or other licensees.

9.11 Upon reasonable request, Bell Atlantic will provide MCI with space in its *Manholes for racking and storage of cable and other materials of the type that Bell Atlantic stores in its Manholes.*

9.12 MCI, contracting with Bell Atlantic or a contractor approved by Bell Atlantic, shall be permitted to add Conduit parts to Bell Atlantic's manholes or to add branches to Conduits when existing Conduits do not provide the connectivity required by MCI, provided that the structural integrity of the manhole is maintained and sound engineering judgment is employed.

9.13 If practicable and if additional space is required, Bell Atlantic shall within a reasonable period of time remove any retired cable from Poles or Conduit Systems to allow for the efficient use of Poles or Conduit space. Bell Atlantic will give MCI prior notice of its cable removal effort and MCI may have a representative present.

9.14 MCI, at its expense, will remove its Communications Facilities from Poles, Conduits or Rights of Way within sixty (60) days after:

– 9.14.1 Termination of the license covering such attachment or Conduit Occupancy in accordance with the terms of this Agreement; or

9.14.2 The date MCI replaces its existing facilities on a Pole with the placement of substitute facilities on the same Pole or another Pole or replaces its existing facilities in one Duct with the placement of substitute facilities in another Duct.

9.15 MCI shall remain liable for, and pay to Bell Atlantic, all fees and charges pursuant to provisions of this Agreement until all of MCI's facilities are physically removed from such Poles, Conduits or Rights of Way. If MCI fails to remove its facilities within the specified period, Bell Atlantic shall have the right to remove such

facilities at MCI's expense and without any liability on the part of Bell Atlantic for damage to such facilities unless caused by the negligent or intentional acts of Bell Atlantic.

9.16 When MCI's Communications Facilities are removed from a Pole, Conduit or Right of Way, no reattachment to the same Pole, or occupancy of Conduits or Rights of Way, shall be made until:

9.16.1 MCI has first complied with all of the provisions of this Agreement as though no such Pole Attachment or Conduit or Right of Way occupancy had previously been made; and

9.16.2 All outstanding charges due Bell Atlantic for such previous attachment and/or occupancy have been paid in full.

9.17 MCI shall advise Bell Atlantic in writing as to the date on which the removal of its Communications Facilities from each Pole, Conduit or Right of Way has been completed.

#### ***Section 10. Termination of Licenses***

10.1 Any license issued under this Agreement shall automatically terminate when MCI ceases to have authority to construct and operate its Communications Facilities on public or private property at the location of the particular Pole, Conduit or Right of Way covered by the license, but shall automatically revive for the balance of any unexpired term upon restoration of such authority within six (6) months of cessation thereof provided MCI pays all applicable charges in the interim period. Notwithstanding the foregoing, MCI shall be allowed to seek a stay or other equitable relief in order to prevent such automatic termination.

10.2 MCI may at any time terminate its license with respect to the attachment to a Pole, or occupancy of a Conduit or Right of Way, and remove its communications facilities by giving Bell Atlantic written notice of such intention (Appendix II, Forms C & D). Once MCI's Communications Facilities have been removed they shall not be reattached to such Pole, or occupy the same portion of such Conduit System or Right of Way, until MCI has complied with all provisions of this Agreement as though no previous license has been issued.

#### ***Section 11. Inspection of Licensee's Communications Facilities***

11.1 Bell Atlantic reserves the right to make reasonable periodic inspections of any part of MCI's Communications Facilities attached to Poles, or occupying Bell Atlantic's Conduits or Rights of Way, to confirm adherence to the provisions of this Attachment VI.

11.2 Bell Atlantic will give MCIIm advance written notice of such inspections, except in those instances where Bell Atlantic determines that safety considerations justify the need for such an inspection without the delay of waiting until a written notice has been forwarded to MCIIm. In such cases and if practicable, Bell Atlantic shall provide telephonic notice to MCIIm.

11.3 The making of periodic inspections or the failure to do so shall not operate to impose upon Bell Atlantic any liability of any kind whatsoever nor relieve MCIIm of any responsibility, obligations or liability assumed under this Agreement.

### *Section 12. Unauthorized Attachment, Utilization or Occupancy*

12.1 If any of MCIIm's Communications Facilities shall be found attached to Poles, or occupying Conduit or Right of Way, for which no license has been granted, Bell Atlantic without prejudice to its other rights or remedies under this Agreement may require MCIIm to submit an application pursuant to Section 7 of this Attachment within sixty (60) days after receipt of written notification from Bell Atlantic of the unauthorized attachment or occupancy. If such application is not received by Bell Atlantic within the specified time period, MCIIm may be required to remove its unauthorized attachment or occupancy, or Bell Atlantic may, at Bell Atlantic's option, remove MCIIm's facilities at MCIIm's sole expense and risk and without liability to Bell Atlantic. In addition, MCIIm shall pay any unauthorized attachment or occupancy charge as specified in Appendix I of this Attachment.

12.2 No act or failure to act by Bell Atlantic with regard to said unlicensed use shall be deemed as a ratification of the unlicensed use; and if any license should be subsequently issued, said license shall not operate retroactively or constitute a waiver by Bell Atlantic of any of its rights or privileges under this Agreement or otherwise; provided, however, that MCIIm shall be subject to all liabilities, obligations and responsibilities of this Agreement in regard to said unauthorized use from its inception.

### *Section 13. Security Interest*

At such time that MCIIm's Net Worth fails to exceed \$100,000,000, MCIIm shall grant Bell Atlantic a security interest in all of MCIIm's Communications Facilities now or hereafter attached to Poles, or placed in Conduit Systems or Rights of Way pursuant to this Agreement, and MCIIm agrees to perform all acts necessary to perfect Bell Atlantic's security interest under the terms of the Uniform Commercial Code, or applicable lien or security laws then in effect. If the terms of MCIIm's loan agreements and debentures preclude the grant of liens or security interests to Bell Atlantic, MCIIm shall grant to Bell Atlantic, upon Bell Atlantic's request, other permissible assurance of security for performance, satisfactory to Bell Atlantic, to cover any amounts due Bell Atlantic under this Agreement. Nothing in this Section shall operate to prevent Bell Atlantic from pursuing, at its option, any other remedies under this Agreement or in law or equity, including public or private sale of facilities under security interest or lien.

### ***Section 14. Liability and Damages***

14.1 Bell Atlantic shall exercise reasonable caution to avoid damaging MCI<sub>m</sub> Communications Facilities and shall make an immediate report to MCI<sub>m</sub> of the occurrence of any such damage caused by its employees, agents or contractors, and Bell Atlantic assumes all responsibility for any and all direct loss from such damage caused by Bell Atlantic's employees, agents or contractors. Bell Atlantic shall not be liable to MCI<sub>m</sub> for any interruption of MCI<sub>m</sub>'s service or for interference with the operation of MCI<sub>m</sub>'s Communications Facilities.

14.2 MCI<sub>m</sub> shall exercise reasonable caution to avoid damaging the facilities of Bell Atlantic and of others attached to Poles, or occupying Conduits or Rights of Way, and shall make an immediate report to the owner of facilities so damaged and MCI<sub>m</sub> assumes all responsibility for any and all direct loss from such damage caused by MCI<sub>m</sub>'s employees, agents or contractors. MCI<sub>m</sub> shall not be liable to Bell Atlantic for any interruption of Bell Atlantic's service or for interference with the operation of Bell Atlantic's communications facilities.

14.3 MCI<sub>m</sub> shall promptly advise Bell Atlantic of all claims relating to damage of property or injury to or death of persons, arising or alleged to have arisen in any manner by the erection, maintenance, repair, replacement, presence, use or removal of MCI<sub>m</sub>'s facilities. Copies of all accident reports and statements made to MCI<sub>m</sub>'s insurer by MCI<sub>m</sub> or others shall be furnished promptly to Bell Atlantic. Similarly, Bell Atlantic shall promptly advise MCI<sub>m</sub> of all claims relating to damage of property or injury to or death of persons, arising or alleged to have arisen in any manner by the erection, maintenance, repair, replacement, presence, use or removal of Bell Atlantic's facilities where MCI<sub>m</sub> Communication Facilities are involved in such claim. Copies of all related accident reports and statements made to Bell Atlantic's insurer by Bell Atlantic or others shall be furnished promptly to MCI<sub>m</sub>.

14.4 Except as expressly provided in this Attachment VI, the Parties indemnification and liability obligations with respect to the use of Poles, Conduits and Rights of Way shall be as provided for in Part A of the Agreement.

### ***Section 15. Insurance***

15.1 MCI<sub>m</sub> shall obtain and maintain insurance issued by an insurance carrier authorized to conduct business in Bell Atlantic's operating region and having an A.M. Best rating of not less than A-VII to protect Bell Atlantic and other authorized user of transport structures from and against all claims, demands, causes of actions, judgments, costs, including attorneys' fees, expenses and liabilities of every kind and nature which may arise or result from or by reason of any negligent or wrongful act of MCI<sub>m</sub> related to activities covered by this Attachment VI.

15.2 The amounts of such insurance:

15.2.1 against liability due to damage to property shall be not less than \$2,000,000 as to any one occurrence and \$2,000,000 aggregate, and

15.2.2 against liability due to injury or death of persons shall be not less than \$2,000,000 as to any one person and \$2,000,000 as to any one occurrence.

15.3 MCI shall name Bell Atlantic as an additional insured and shall provide certificates by each company insuring MCI to the effect that it has insured MCI for all liabilities of MCI covered by this Agreement and that it will not cancel any such policy of insurance issued to MCI except after thirty (30) days written notice to Bell Atlantic.

15.4 All insurance required in accordance with Subsections 15.1 and 15.2 above must be effective before Bell Atlantic will authorize attachment to a Pole, or occupancy of Conduit or Rights of Way, and shall remain in force until such MCI's facilities have been removed from all such Poles, Conduits or Rights of Way. In the event that MCI shall fail to maintain the required insurance coverage, Bell Atlantic may pay any premium thereon falling due, and MCI shall forthwith reimburse Bell Atlantic for any such premium paid.

15.5 Notwithstanding the foregoing, if MCI's net worth exceeds \$100,000,000, MCI may elect to self-insure in lieu of obtaining any of the insurance required by this Section 15. If MCI self insures, MCI shall furnish to Bell Atlantic, and keep current, evidence of such net worth. If MCI self insures, MCI shall release, indemnify, defend, and hold Bell Atlantic harmless against all losses, costs (including reasonable attorney's fees), damages, and liabilities resulting from claims that would otherwise have been covered by the foregoing insurance requirements (including without limitation claims alleging negligence or breach of contract).

***Section 16. Authorization Not Exclusive***

Nothing herein contained shall be construed as a grant of any exclusive authorization, right or privilege to MCI. Subject to the provisions of this Agreement, Bell Atlantic shall have the right to grant, renew and extend rights and privileges in a Non-Discriminatory manner to others not parties to this Agreement, by contract or otherwise, to use any Pole, Conduit or Right of Way covered by this Attachment VI.

***Section 17. Assignment of Licenses***

MCI shall not assign or transfer any license or any authorization granted under this Attachment VI, and such licenses shall not inure to the benefit of MCI's successors or assigns, without the prior written consent of Bell Atlantic unless such transfer of rights is made pursuant to an assignment of this Agreement pursuant to the provisions of Part A, Section 5 (Assignment). Bell Atlantic shall not unreasonably withhold such consent. In the event such consent or

consents are granted by Bell Atlantic, then prior to such assignment becoming effective the assignee shall be required to execute Bell Atlantic's generally available license agreement covering the affected licenses.

***Section 18. Additional Terminations***

18.1 Subject to provisions of Section 17 of this Attachment, should MCIIm cease to provide its Telecommunications Services in or through the area covered by any license under this Attachment VI on other than a demonstrably temporary basis not to exceed six (6) months, then MCIIm's rights, privileges and authorizations under any such license issued hereunder shall automatically terminate as of the date following the final day that such Telecommunications Services are provided.

18.2 Subject to Section 18.3 below and the Force Majeure provisions of Part A of the Agreement, Bell Atlantic shall have the right to terminate any license issued hereunder whenever MCIIm is in default of any material term of this Agreement, including, but not limited to, the following conditions, as applicable to the affected facilities:

18.2.1 If MCIIm uses its Communications Facilities or maintains such facilities in violation of any Applicable Law or in aid of any unlawful act or undertaking; or

18.2.2 Subject to Section 10.1 of this Attachment, if any authorization which may be required of MCIIm by any governmental or private authority for the construction, operation, and maintenance of MCIIm's Communications Facilities is denied or revoked; or

18.2.3 If MCIIm's insurance carrier shall at any time notify Bell Atlantic or MCIIm that the policy or policies of insurance, required under Section 15 hereof, will be canceled or if Bell Atlantic reasonably determines that the requirements of Section 15 of this Attachment will no longer be satisfied.

18.3 Bell Atlantic will promptly notify MCIIm in writing of any condition(s) applicable to 18.1 and 18.2 above specifying the license and facilities in question. MCIIm shall take immediate corrective action to eliminate any such condition(s) and shall confirm in writing to Bell Atlantic within thirty (30) days following receipt of such written notice that the cited condition(s) has ceased or been corrected. If MCIIm fails to discontinue or correct such condition(s) and fails to give the required confirmation, Bell Atlantic shall so notify MCIIm and thereafter may immediately terminate MCIIm's licenses for the affected facilities under this Attachment VI. Notwithstanding the foregoing, in the event that such corrective action is incapable of correction within thirty (30) days, MCIIm shall initiate such corrective action within the thirty (30) day period referred to above and shall be allowed a reasonable time to complete such correction before MCIIm is considered in default under this Section 18. MCIIm shall use its best efforts to complete such correction as soon as possible.

18.4 In the event of termination of this Agreement, MCI shall remove its Communications Facilities from the affected Poles, Conduits and Rights of Way within six (6) months from the date of such termination; provided, however, that MCI shall be liable for and pay all fees and charges pursuant to terms of this Attachment VI to Bell Atlantic until MCI's Communications Facilities are actually removed from Bell Atlantic's Poles, Conduits and Rights of Way.

18.5 If MCI does not remove its Communications Facilities from Bell Atlantic's Poles, Conduits and Rights of Way within the applicable time periods specified in this Attachment VI, Bell Atlantic shall have the right to remove them at the expense of MCI and without any liability on the part of Bell Atlantic to MCI therefor.

*Section 19. Term of Licenses*

19.1 All licenses issued hereunder shall continue in effect until the Agreement expires or is terminated, unless earlier terminated by MCI in accordance with this Attachment VI.

19.2 Termination of licenses shall not affect MCI's liabilities and obligations incurred with respect thereto prior to the Effective Date of such termination.

**APPENDIX I**

APPENDIX I

## SCHEDULE OF FEES AND CHARGES

THIS APPENDIX I, effective as of \_\_\_\_\_, is an integral part of the License Agreement between Bell Atlantic - Pennsylvania, Inc. (Bell Atlantic) and MCImetro Access Transmission Services, Inc. (MCIIm), dated \_\_\_\_\_ and contains the fees and charges governing the use of Bell Atlantic's Poles, Conduits and Rights of Way by MCIIm's Communications Facilities.

**1. Attachment, Utilization, and Occupancy Fees****1.1 General**

- a) Attachment, utilization, and occupancy fees commence on the date set forth in Section 7.5 of the License Agreement. Subject to clause c) below, such fees cease as of the final day on which the attachment or occupancy is physically removed or is discontinued.
- b) A one (1) month minimum charge is applicable for all attachment, and occupancy accommodations.
- c) Fees shall be payable semi-annually in advance on the first day of January and July. No fees shall be refunded for any licenses terminated and attachments or occupancies removed during any period for which such advance payments have been made.
- d) The total attachment, and occupancy fees due hereunder, shall be based upon the number of Poles and Duct feet of Conduit for which licenses have been issued before the first day of January and the first day of July each year. Each semi-annual payment shall include a proration of the monthly attachment, and occupancy charges applicable for attachments, or occupancy initially authorized by Bell Atlantic during the preceding six (6) month period. Any such fees shall be computed in accordance with Applicable Law.

**2. Fees****2.1 Application and Engineering Survey Fee**

- a) Per Pole attached \$
- b) Per Manhole/per Duct run \$
- c) Right of Way (determined on a case by case basis)

## 2.2 Annual Fee

- |  |  |    |
|--|--|----|
| a) Horizontal Attachment   |  |    |
| Per attachment   |  | \$ |
| b) Vertical Attachment   |  |    |
| Per Pole attached (\$/Vertical foot of occupancy)                                      |  | \$ |
| c) Per foot of cable placed in the   |  |    |
| Conduit  |  | \$ |
| d) Right of Way (determined on a case by case basis as mutually agreed by the parties) |  |    |

## 2.3 Other Charges

### Computation

Charges for all work performed by Bell Atlantic or by its authorized representative in connection with the furnishing of Pole, Conduit and Right of Way accommodations as covered by this Agreement shall be based upon the cost to Bell Atlantic for performance of such work in accordance with Applicable Law, if any. Such charges will apply for, but not be limited to, Preliminary Survey; Make-Ready Work; inspection and removal of MCI's Communications Facilities, where applicable; and supervision by one (1) employee, at the option of the Bell Atlantic, of MCI-performed work in and around the immediate vicinity of a Conduit System limited to one (1) employee.

2.4 In the event that it is determined that MCI has made attachment in or on any Pole, Conduit or Right of Way of Bell Atlantic for which a License has not been executed, MCI shall be obliged to: a) apply for such license immediately; and b) pay to Bell Atlantic fees for said attachment for the entire period of time which can be reasonably established as the date of MCI's attachment, but in no case less than one (1) year prior to date of discovery.

**APPENDIX II**

APPENDIX II

ADMINISTRATIVE FORMS AND NOTICES

THIS APPENDIX II, effective as of \_\_\_\_\_, is an integral part of the License Agreement between Bell Atlantic - Pennsylvania, Inc. (Bell Atlantic), and MCImetro Access Transmission Services, Inc., (MCIIm), dated \_\_\_\_\_ and contains the administrative forms governing the use of Bell Atlantic's Poles and Conduit by MCIIm's Communications Facilities.

INDEX OF ADMINISTRATIVE FORMS

Application and Pole Attachment License  
A-1

Pole Details  
A-2

Application and Conduit Occupancy License  
B-1

Conduit System Diagram  
B-2

Cable to occupy Conduit and Equipment to be placed in Manholes  
B-3

Authorization for Make-Ready Work  
B-4

Notification of Removal of Pole Attachments  
C

Notification of Removal of Conduit Occupancy  
D

FORM A-1

APPENDIX II

APPLICATION AND POLE ATTACHMENT LICENSE

Bell Atlantic - Pennsylvania, Inc.

In accordance with the terms and conditions of the License Agreement between us, dated \_\_\_\_\_, 19\_\_\_\_, application is hereby made for a nonexclusive license to attach communication facilities to \_\_\_\_\_ Poles as indicated on Form A-2. This request will be designated:

Pole Application # \_\_\_\_\_

Enclosed is a check in the amount of \$ \_\_\_\_\_ to cover the cost of the Pre-License Survey. (Appendix I)

MCIIm: \_\_\_\_\_

Signed: \_\_\_\_\_

Dated: \_\_\_\_\_

Tel. No: \_\_\_\_\_

.....  
Permission is hereby granted to attach communication facilities to \_\_\_\_\_ Poles as indicated on the attached Form A-2.

Atlantic)

Bell Atlantic - Pennsylvania, Inc. (Bell

Signed: \_\_\_\_\_

Dated: \_\_\_\_\_

Tel. No: \_\_\_\_\_

Applications shall be numbered in sequential ascending order by MCIIm. Bell Atlantic will process applications in ascending order according to the applications numbers assigned by MCIIm.

FORM A-2

APPENDIX II

Page \_\_\_\_\_

\_\_\_\_\_  
(MCIIm)

\_\_\_\_\_  
(Central Office Area)

\_\_\_\_\_  
(Pole Application #)

POLE DETAILS

	Telephone Pole #	Power Pole #	Location	Type Attach	Make Ready
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

FORM B-1

APPENDIX II

APPLICATION AND CONDUIT OCCUPANCY LICENSE

Bell Atlantic - Pennsylvania, Inc.

In accordance with the terms and conditions of the License Agreement between us, dated \_\_\_\_\_, 19\_\_\_\_\_, application is hereby made for a license to occupy the Conduit system shown on Form B-2, with the cable and equipment detailed on Forms B-3 and B-4. This request will be designated:

Conduit Application # \_\_\_\_\_

Enclosed is a check in the amount of \$ \_\_\_\_\_ to cover the cost of the Pre-License Survey. (Appendix I)

\_\_\_\_\_  
(MCIIm)

Signed: \_\_\_\_\_

Dated: \_\_\_\_\_

Tel. No: \_\_\_\_\_

.....  
Permission is hereby granted to occupy Bell Atlantic's Conduit system, as indicated on the attached Form B-2, with cable equipment and facilities specified on the attached Forms B-3. The Duct footage for this License is \_\_\_\_\_

Bell Atlantic - Pennsylvania, Inc.

(Bell Atlantic)

Signed: \_\_\_\_\_

Dated: \_\_\_\_\_

Tel. No: \_\_\_\_\_

Applications shall be numbered in sequential ascending order by MCIIm. Bell Atlantic will process applications in ascending order according to the applications numbers assigned by MCIIm.

July 8, 1997

ATTACHMENT VI

FORM B-2

APPENDIX II

Page \_\_\_\_\_

\_\_\_\_\_  
(MCI<sub>m</sub>)

\_\_\_\_\_  
(Area)

\_\_\_\_\_  
(Conduit Application #)

**SAMPLE CONDUIT SYSTEM DIAGRAM**

**CONDUIT SYSTEM DIAGRAM**

FORM B-3

APPENDIX II

Page \_\_\_\_\_

\_\_\_\_\_  
(MCIm)

\_\_\_\_\_  
(Area)

\_\_\_\_\_  
(Conduit Application #)

CABLE TO OCCUPY CONDUIT

	Type Cable		Weight Per Ft.	Maximum Voltage to Ground AC/DC	Maximum Current in a Conductor	Type Sheath
1						
2						
3						
4						
5						

EQUIPMENT TO BE PLACED IN MANHOLES

	Location	Type	Height	Width	Depth	Weight
1						
2						
3						
4						
5						

Form B-4

APPENDIX II

AUTHORIZATION FOR MAKE-READY WORK

Following is a summary of the estimated charges for the following application:

Pole attachment application number \_\_\_\_\_

or

Conduit occupancy application number \_\_\_\_\_

or

Right of Way occupancy application number \_\_\_\_\_

Estimated cost \$ \_\_\_\_\_

Note that in the event that an advance payment is required, actual costs will be billed at the conclusion of the work.

\_\_\_\_\_  
(Bell Atlantic)

By: \_\_\_\_\_  
(Signature of authorized person)

Its: \_\_\_\_\_  
(Title of authorized person)

Date: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

Order Number: \_\_\_\_\_

I hereby acknowledge and agree to pay all charges, as above, and authorize work to begin.

\_\_\_\_\_  
(MCIIm)

By: \_\_\_\_\_  
(Signature of authorized person)

Its: \_\_\_\_\_  
(Title of authorized person)

Date: \_\_\_\_\_

Telephone Number: \_\_\_\_\_

FORM C  
Page \_\_\_\_\_

APPENDIX II  
Page \_\_\_\_\_

**NOTIFICATION OF REMOVAL OF POLE ATTACHMENTS**

In accordance with the terms and conditions of the License Agreement between us, dated \_\_\_\_\_, 19\_\_\_\_, notice is hereby given that the following Pole attachments have been removed.

	Telephone Co. Pole	Joint Use Pole	Location	Date Removed
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

SUBMITTED:

APPROVED:

\_\_\_\_\_  
(MCI)

Bell Atlantic - Pennsylvania, Inc.  
(Bell Atlantic)

Signed: \_\_\_\_\_

Signed: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

FORM D

APPENDIX II

Page \_\_\_\_\_

NOTIFICATION OF REMOVAL OF CONDUIT OCCUPANCY

In accordance with the terms and conditions of the License Agreement between us, dated \_\_\_\_\_, 19\_\_\_\_, notice is hereby given that the occupancy of the following Conduit has been removed.

	Conduit Location	Conduit Application #	Date Removed
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

SUBMITTED:

APPROVED:

\_\_\_\_\_  
(MCI)

Bell Atlantic - Pennsylvania, Inc.  
(Bell Atlantic)

Signed: \_\_\_\_\_

Signed: \_\_\_\_\_

Dated: \_\_\_\_\_

Dated: \_\_\_\_\_

## TABLE OF CONTENTS

### Attachment VII NUMBER PORTABILITY

Section 1.	Provision of Number Portability	VII - 1
Section 2.	Interim Number Portability ("INP")	VII - 1
Section 3.	Number Portability ("NP")	VII - 2
Section 4.	Requirements for INP and NP	VII - 6

## ATTACHMENT VII

### NUMBER PORTABILITY

#### *Section 1. Provision of Number Portability*

1.1 Each Party shall provide Number Portability in accordance with Applicable Law. Currently available *Interim Number Portability* ("INP") shall also be provided by each Party to the other in accordance with Applicable Law. Each Party shall use commercially reasonable efforts to provide INP with a minimum impairment of functionality, quality, reliability and convenience to subscribers of each other's services.

1.2 The donor Party will provide the porting Party INP and NP for subscribers moving to a different location (where Technically Feasible for INP), or staying at the same location, within the same Rate Center area. INP and NP are not available for other purposes, such as the creation of new vanity numbers.

#### *Section 2. Interim Number Portability ("INP")*

2.1 Each Party shall make available INP by Remote Call Forwarding ("RCF"), Flex Direct Inward Dialing ("FLEX-DID") or LERG reassignment (in full NXX codes only). The porting Party must order the appropriate services and facilities (e.g., trunk groups) from the donor Party.

2.1.1 Remote Call Forwarding: RCF is an INP method to provide subscribers with service-provider portability by redirecting calls within the telephone network. When RCF is used to provide INP, calls to the ported number will first route to the Party's Switch to which the ported number was previously assigned. Such Switch will then forward the call to a number associated with the porting Party's designated Switch to which the number is ported. Each Party may order additional paths to handle multiple simultaneous calls to the same ported telephone number.

2.1.2 FLEX-DID is an INP method that makes use of direct inward dialing trunks. Each FLEX-DID trunk group used for INP is dedicated to carrying traffic between the donor Party's Switch and the porting Party's Switch. Traffic on these trunks cannot overflow to other trunks, so the porting Party must order a trunk group size it believes results in conservative engineering. Also, inter-Switch signaling is usually limited to multi-frequency ("MF"). This precludes passing calling line identification to the porting Party's Switch.

2.1.3 LERG Reassignment: Portability for an entire NXX of numbers shall be provided, when mutually agreed, by utilizing reassignment of the block to the

porting Party through the Local Exchange Routing Guide ("LERG"). Updates to translations in the donor Party's switching offices from which the NXX code is reassigned will be made by the donor Party by the date on which national LERG changes become effective.

## 2.2 Other Currently Available Number Portability Provisions:

2.2.1 Each Party shall exchange with the other Party SS7 TCAP messages as required for the implementation of Custom Local Area Signaling Services ("CLASS") or other features available in their respective networks, as are Technically Feasible to exchange.

2.2.2 Promptly following receipt of an INP order for a number served by a particular End Office Switch, each Party shall disclose to the other any technical or capacity limitations that would prevent use of a requested INP method in a particular switching office.

2.2.2.1 In all cases in which installation or removal of INP is to be coordinated with the installation, modification, or removal of another service (e.g., an Unbundled Local Loop), the Parties shall follow the coordination procedures set forth in Attachment VIII, Section 2.2.3.

2.2.3 When any INP method available hereunder is used to port a subscriber, the donor Party must maintain the LIDB record for that number to reflect appropriate conditions as reported to it by the porting Party and to provide such LIDB information in accordance with any LIDB agreement subsequently entered between the Parties.

2.2.4 The donor Party shall send a CARE transaction 2231 to notify the appropriate IXC that access is now provided by the porting Party for that number.

2.2.5 The INP service offered herein shall not initially apply to NXX Codes 555, 915, 950, or 976, or for Feature Group A or coin telephone service, because of the special billing characteristics of such services. Upon a Bona Fide Request from either Party, the provisions of INP for these services will be mutually negotiated between the Parties and provided to the extent feasible under negotiated rates, terms, and conditions. INP shall not apply for any arrangement that would render the forwarded call toll traffic.

## Section 3. Number Portability ("NP")

3.1 The Parties acknowledge that they disagree on the form of NP that should be adopted and prescribed by the FCC, and accordingly hereby reserve their rights to advocate their respective positions before legislative, judicial, and regulatory bodies, notwithstanding any other provisions of this Agreement. To the extent that this Agreement includes

provisions regarding the implementation of the Location Routing Number ("LRN") method of NP, such provisions shall apply only if it is ordered that LRN shall be deployed in Pennsylvania, and only to the extent required by FCC Rules and Regulations, and the presence of such provisions in this Agreement shall not be deemed a waiver of Bell Atlantic's position that LRN should not be deployed in Pennsylvania. If another NP methodology is adopted for Pennsylvania, the Parties shall promptly modify any provisions of this Agreement that refer to or assume the implementation of LRN to replace it with such other methodology.

### 3.2 The requirements for NP, when available, shall include the following:

3.2.1 Notwithstanding any other provision of this Agreement, each Party shall provide NP service in accordance with FCC Rules and Regulations.

3.2.2 To the extent required by FCC Rules and Regulations and to the extent Technically Feasible, the donor Party's NP network architecture shall not subject the porting Party to any degradation of service compared to the donor Party in any material measure, including switching and transmission quality, call set-up time and post-dial delay, and the porting Party shall not be required to rely on the donor Party's network for calls completing to its ported subscribers; provided, however, that a Query On Release system may be used by donor Party if expressly permitted under Applicable Law.

3.2.3 After an office is equipped with NP, and after an NXX is defined as portable, translations will be changed in the donor's LNP-capable switches which trunk directly to such office to open the NXX(s) for database queries. Any NXX with at least one ported number in the NXX shall be defined as portable.

3.2.4 Upon introduction of LRN in a metropolitan statistical area/county, the associated tandems (local and access) shall be among the first converted, with no unreasonable delay. All portable NXXs shall be recognized in these tandems as portable, with queries launched from these switches.

3.2.5 During the process of porting a subscriber, the donor Party shall implement the 10-digit trigger feature when Technically Feasible. When the donor Party receives the porting request, it shall use reasonable efforts to apply the 10-digit trigger to the subscriber's line at least twenty-four (24) hours prior to the order due date in order to facilitate the smooth transitioning of the subscriber to the new provider.

### 3.3 Joint Cooperation

3.3.1 At such time that NP is available, both MCI and Bell Atlantic shall:

3.3.1.1 Support emergency and Operator Services in a manner to be mutually agreed.

3.3.1.2 Use commercially reasonable efforts to use scarce numbering resources efficiently and administer such resources in a competitively neutral manner.

3.3.1.3 Cooperate with each other so that each carrier shall be able to rate and bill different types of calls.

3.3.1.4 Cooperate with each other to apply NP consistently.

3.3.1.5 Upon the agreement of the Parties or issuance of applicable FCC and/or Commission order(s) or regulations mandating the adoption of a NP arrangement, the Parties will commence migration from INP to the agreed upon or mandated NP arrangement as quickly as practically possible (and in any event no later than the migration dates set forth in the applicable FCC and/or Commission order(s) or regulations) while minimizing interruption or degradation of service to their respective subscribers. Once NP is implemented, either Party may withdraw, at any time and at its sole discretion, its INP offerings, subject to advance notice to the other Party and coordination to allow the seamless and transparent conversion of INP subscribers' numbers to NP. Upon implementation of NP pursuant to FCC or Commission regulation, both Parties agree to conform and provide such NP. To the extent NP rates or cost recovery mechanisms are not established by the applicable FCC or Commission order or regulation mandating the adoption of NP, the Parties will negotiate in good faith the charges or cost recovery mechanism for NP service at such time as a NP arrangement is adopted by the Parties.

#### **3.4 Location Routing Number ("LRN")**

3.4.1 If and to the extent that the FCC requires implementation of LRN as the NP methodology applicable in Pennsylvania, Bell Atlantic and MCI shall work cooperatively to implement an LRN-NP solution when Technically Feasible.

3.4.2 A ten-digit code, consistent with the North American Numbering Plan, called the location routing number ("LRN") shall be used as a network address for each Switch that terminates subscriber lines, (*i.e.*, an End Office). LRN shall support existing six-digit routing and may be implemented without changes to existing Switch routing algorithms. In existing End Offices, the LRN shall be selected from one of its existing NPA-NXXs. New End Offices shall be assigned LRNs through normal administrative processes.

3.4.3 LRN employs an "N-1" query strategy for interLATA or intraLATA toll calls, by which the originating carrier will pass the call to the appropriate toll carrier who will perform a query to an external routing database and route the call to the appropriate terminating local carrier either directly or through an access tandem office. For a local call to a ported number, the originating carrier is the "N-1" carrier. It will perform an external database query and pass the call to the appropriate terminating carrier. The "N-1" methodology will be used to extend portability on a phased, region-by-region basis and it does not place Bell Atlantic, MCI or other carriers needlessly in the call path.

3.4.4 The Parties shall furnish each other with the first six (6) digits of the originating LRN when they supply each other with the Jurisdiction Information Parameter ("JIP") in the Initial Address Message ("IAM"), assuming the necessary LRN software is available from the Switch manufacturer and is loaded in the specific Switch that will populate the JIP parameter per the timetable set by the FCC and Commission.

3.4.5 Each Party agrees to use commercially reasonable efforts to begin the introduction of LRN to end user subscribers who may begin changing local service providers and retaining their existing telephone number based on the time line set out by the FCC in its Telephone Number Portability Order (CC Docket No. 95-116), or as per a State order if such time for introduction of LRN set by the State is earlier than would result under the FCC Order.

### **3.5 Additional NP Requirements (when available)**

3.5.1 In the absence of Query On Release, for local calls to a portable NXX, each Party shall query an external database as soon as the call reaches the first NP-capable Switch in the call path. An LRN-capable originating Switch shall query on a local call to a portable NXX native to another Central Office as soon as the LNP trigger is encountered and it is determined that it (the originating Switch) does not serve the dialed number.

### **3.6 SMS Administration**

3.6.1 Each Party will work cooperatively with other local service providers to establish the NP service management system ("SMS"). The SMS shall be administered by a neutral third party, to provide for the efficient porting of numbers between carriers. Subject to Applicable Law, there must be one exclusive Number Portability Administration Center ("NPAC") per portability State or region, and each Party shall provide all information uploads and downloads regarding ported numbers to/from, respectively, the exclusive NPAC. Bell Atlantic and MCI shall cooperate to facilitate the expeditious deployment of LRN-based NP through the process prescribed by the FCC and the Commission, including, but not limited to, participation in the selection of a

neutral third party and development of SMS, as well as SMS testing for effective procedures, electronic system interfaces, and overall readiness for use consistent with that specified for provisioning in this Agreement.

#### ***Section 4. Requirements for INP and NP***

##### **4.1 INP Cut-Over Process**

The following cut-over coordination procedures shall apply for INP-ported numbers. NP cut-over procedures shall be reasonably agreed by the Parties at such time as the capability has been developed.

4.1.1 Upon request by the porting Party, the donor Party will apply the following coordination procedures to cut-overs of ported numbers.

4.1.2 The porting Party shall request the porting of a number from the donor Party by delivering to the donor Party a valid electronic transmittal service order (when available) or another mutually agreed-upon type of service order. Such service order shall be provided in accordance with industry format and specifications or such format and specifications as may be agreed to by the Parties. Within forty-eight (48) hours of the donor Party's receipt of such valid service order, the donor Party shall provide the porting Party the firm order commitment date and time according to the installation time frames set forth in Section 4.2 below.

4.1.3 On each porting order, the Parties will agree on a cut-over time at least forty-eight (48) hours before that cut-over. RCF cut-over time will be defined as a fifteen (15) to thirty (30) minutes per line window within which both Parties will make telephone contact to complete the cut-over. The cut-over window for other methodologies will be agreed to by the Parties.

4.1.4 Within the appointed fifteen (15) to thirty (30) minute cut-over time, the porting Party will call the donor Party to coordinate cut-over work and when the donor Party is reached in that interval, such work will be promptly performed.

4.1.5 If the porting Party requires a change in scheduling, it must contact the donor Party to issue a supplement to the original order. The negotiations process to determine the date and time of cut-over will then be reinitiated pursuant to Section 4.1.3 above.

4.1.6 If the porting Party is not ready within the appointed interval and if it had not called to reschedule the work at least two (2) hours prior to the start of the interval, the porting Party shall be liable for the non-recurring charge for such work for the missed appointment. In addition, non-recurring charges, if applicable, for the rescheduled appointment will apply.

4.1.7 If the donor Party is not available or not ready at any time during the appointed fifteen (15) to (30) minute interval, the Parties will reschedule and the donor Party will waive the non-recurring charge, if applicable, for such work whenever it is performed pursuant to an agreed-upon rescheduling.

4.1.8 Beginning nine (9) months from the Effective Date, if unusual or unexpected circumstances prolong or extend the time required to accomplish the coordinated cut-over, the Party responsible for such circumstances is responsible for the reasonable labor charges of the other Party. Delays caused by the subscriber are the responsibility of the porting Party.

## 4.2 Installation Time Frames

4.2.1 Installation time frames for RCF INP will be as follows:

### 4.2.1.1 Lines and Trunks:

4.2.1.1.1 For installations of RCF INP that are not installed and/or coordinated with in conjunction with any other service or service disconnect ordered from Bell Atlantic, installation time frames will be as follows: orders of 1-20 lines in four (4) business days; orders of 21-30 lines in seven (7) business days; orders over 30 lines will have an installment time frame as mutually agreed by the Parties; and

4.2.1.1.2 Notwithstanding Section 4.2.1.1.1, installation time frames for RCF INP when installed in conjunction with another service ordered from Bell Atlantic will be as follows: orders of 1-10 lines in six (6) business days; orders of 11-20 lines in ten (10) business days; orders of twenty-one (21) or more lines will have an installment time frame mutually agreed upon by the Parties.

4.2.1.2 The installation time frames set forth in Section 4.2.1.1 shall be applied as follows:

4.2.1.2.1 The time frames set forth in Section 4.2.1.1 shall apply on average to the order types and sizes specified therein; and

4.2.1.2.2 No individual order shall be installed in a time frame more than twice the length of the time frame specified in Section 4.2.1.1 for the order type and size, except in unusual circumstances. Unusual circumstances shall qualify to modify any time frame only to the extent that the unusual circumstances have

comparable effects on Bell Atlantic's customer services and INP services for other CLECs.

#### **4.3 INP Call Referral Announcements**

4.3.1 Within forty-five (45) days after the Effective Date, Bell Atlantic will provide MCIIm a cost-based cost estimate and proposed implementation schedule for the development and implementation of the capability to allow MCIIm to order all referral announcements, and specify the particular announcement from Bell Atlantic's standard set of call referral announcement options, on a per telephone number basis, for telephone numbers which MCIIm has ported from Bell Atlantic to MCIIm and for which INP measures, at MCIIm's direction, have been terminated. Upon MCIIm's acceptance of the cost estimate and proposed implementation schedule (adjusted as necessary to reflect any significant delay in such acceptance), Bell Atlantic will develop and implement said capability and MCIIm will pay the cost thereof, as set forth in the accepted cost estimate.

#### **4.4 Engineering and Maintenance**

4.4.1 Bell Atlantic and MCIIm will cooperate with the objective that the performance of trunking and signaling capacity shall be engineered and managed at Parity. Additional specific engineering and maintenance requirements shall apply as specified in this Agreement.

## TABLE OF CONTENTS

### Attachment VIII

## BUSINESS PROCESS REQUIREMENTS

<b>SECTION 1. GENERAL BUSINESS REQUIREMENTS</b>	<b>1</b>
<b>1.1 Procedures</b>	<b>1</b>
1.1.1 Contact with Subscribers	1
1.1.2 Expedite, Escalation, and Disaster Procedures	1
1.1.3 Subscriber of Record	2
1.1.4 Work Center Interface Procedures	2
<b>1.2 Service Offerings</b>	<b>2</b>
1.2.1 Changes in Retail Service Offerings	2
1.2.2 Essential Services	3
1.2.3 Deaf and Disabled Services	3
1.2.4 Training Support	3
1.2.5 Carrier Identification Codes	3
<b>SECTION 2. ORDERING AND PROVISIONING</b>	<b>3</b>
<b>2.1 General Business Requirements</b>	<b>3</b>
2.1.1 Ordering and Provisioning Parity	3
2.1.2 CLEC Sales and Support Center ("CSSC")/Single Point of Contact ("SPOC")	3
2.1.3 Street Address Guide ("SAG")	4
2.1.4 Subscriber Payment History	4
2.1.5 Carrier Selection	4
2.1.6 Notification to Long Distance Carrier	4
2.1.7 Number Administration/Number Reservations	5
<b>2.2 Service Order Process Requirements</b>	<b>6</b>
2.2.1 OBF Compliance	6
2.2.2 Service Migrations and New Subscriber Additions	6
2.2.3 Cut-Over Process	7
2.2.4 Intercept Treatment and Transfer of Service Announcements	8
2.2.5 Desired Due Date ("DDD")	9
2.2.6 Subscriber Premises Inspections and Installations	9
2.2.7 Firm Order Confirmation ("FOC")	10
2.2.8 Order Rejections	10
2.2.9 Service Order Changes	10

2.2.10 Jeopardy Situations	11
2.2.11 Cooperative Testing	11
2.2.12 Service Suspensions/Restorations	11
2.2.13 Disconnects	11
2.2.14 Order Completion Notification	12
2.2.15 Fulfillment Process	12
2.2.16 Specific Unbundling Requirements	12
<b>2.3 Systems Interfaces and Information Exchanges</b>	<b>13</b>
2.3.1 General Requirements	13
2.3.2 Ordering and Provisioning for Resale Services	14
2.3.3 Ordering and Provisioning for Unbundling	15
<b>2.4 Standards</b>	<b>16</b>
2.4.1 General Requirements	16
<b>SECTION 3. BILLING AND RECORDING</b>	<b>16</b>
<b>3.1 Billable Information and Charges</b>	<b>16</b>
3.1.1 Billable Information and Charges	16
3.1.2 Standard Billing	17
3.1.3 Meet-Point Billing	18
3.1.4 Collocation	22
3.1.5 Local Number Portability	23
3.1.6 Electronic Transfers	24
3.1.7 Tape or Paper Transmissions	24
3.1.8 Payment of Charges	24
3.1.9 Billing Dispute	25
<b>3.2 Standards</b>	<b>26</b>
<b>SECTION 4. PROVISION OF SUBSCRIBER USAGE DATA</b>	<b>27</b>
<b>4.1 Procedures</b>	<b>27</b>
4.1.1 General	27
4.1.2 Incomplete Calls	29
4.1.3 Central Clearinghouse & Settlement (ICS/Non-ICS Incollects/Outcollects)	29
4.1.4 Lost Data	29
4.1.5 Testing, Changes and Controls	31
<b>4.2 Information Exchange and Interfaces</b>	<b>33</b>
4.2.1 Core Billing Information	33
4.2.2 Product/Service Specific	33
4.2.3 Information Transport	33
4.2.4 Rejected Recorded Usage Data	34

4.2.5 Interfaces	34
4.2.6 Formats and Characteristics	35
4.2.7 Controls	36
<b>4.3 Miscellaneous</b>	<b>37</b>
<b>SECTION 5. MAINTENANCE</b>	<b>37</b>
5.1 General Requirements	37
5.2 Systems Interfaces	41
5.3 Standards	42
<b>SECTION 6. MISCELLANEOUS SERVICES AND FUNCTIONS</b>	<b>42</b>
6.1 General Requirements	42
6.1.1 Basic 911 and E911 General Requirements	42
6.1.2 Basic 911 and E911 Additional Requirements	47
6.1.3 Directory Assistance	48
6.1.4 Operator Services	50
6.1.5 Directory Assistance and Listings Service Requests	53
6.1.6 Directory Listings General Requirements	55
6.1.7 Directory Assistance Data	57
Exhibit A Customer Guide Page Sample	

## ATTACHMENT VIII

### BUSINESS PROCESS REQUIREMENTS

#### *Section 1. General Business Requirements*

##### **1.1 Procedures**

###### **1.1.1 Contact with Subscribers**

1.1.1.1 Each Party at all times shall be the primary contact and account control for all interactions with its own subscribers regarding such Party's services purchased by the subscribers, except as otherwise agreed. A Party's subscribers shall include active subscribers as well as those for whom it has service orders pending.

1.1.1.2 With respect to a Party that may receive inquiries from the other Party's subscribers, or otherwise have opportunity for such subscriber contact, the Party shall: (i) provide mutually agreed referrals to subscribers who inquire about the other Party's services or products; (ii) not disparage or discriminate against the other Party, or its products or services; and (iii) not provide information about its own products or services during that same inquiry or subscriber contact unless asked by the subscriber.

1.1.1.3 Each Party shall protect the Proprietary Information of the other Party and the other Party's subscribers in accordance with Section 22 of Part A.

###### **1.1.2 Expedite, Escalation, and Disaster Procedures**

1.1.2.1 No later than thirty (30) days after the Effective Date of this Agreement, the Parties shall develop mutually acceptable escalation and expedite procedures which may be invoked at any point in the service ordering, provisioning, maintenance, and subscriber usage data transfer processes to facilitate rapid and timely resolution of disputes. In addition, the Parties will establish intercompany contacts lists for purposes of handling subscriber and other matters which require attention/resolution outside of normal business procedures within thirty (30) days after the Effective Date of this Agreement. Each Party shall provide to the other an updated escalation contacts list promptly following any changes thereto.

### **1.1.3 Subscriber of Record**

1.1.3.1 Each Party shall recognize the other as the subscriber of record for all services ordered by the other Party and shall send all notices, invoices, and information which pertain to such ordered services directly to such other Party. Each Party shall provide the other Party with addresses to which such notices, invoices, and information shall be sent.

### **1.1.4 Work Center Interface Procedures**

1.1.4.1 Bell Atlantic and MCI shall, as early as practicable, but no later than ninety (90) days, after the Effective Date of this Agreement, develop and implement work center interface procedures where appropriate for a function/business process provided by a Party. Each Party shall provide reasonable notice to the other Party of changes to its processes.

## **1.2 Service Offerings**

### **1.2.1 Changes in Retail Service Offerings**

1.2.1.1 Bell Atlantic shall notify MCI of any proposed changes in the terms and conditions under which Bell Atlantic offers Telecommunications Services to subscribers who are not Telecommunications Service providers or carriers, including, but not limited to, the introduction or discontinuance of any features, functions, services, promotions, or changes in retail rates. Such notification shall be by such public notice, including Tariff filings, as is required by State law or Commission rule. In addition, Bell Atlantic shall provide notification by posting such changes on Bell Atlantic's World Wide Web site within five (5) business days after the date of the public notice required by State law or Commission rule.

### **1.2.2 Essential Services**

1.2.2.1 Bell Atlantic shall designate an access line as an essential service line ("ESL") upon MCI's request. MCI will be responsible for following National Security Emergency Preparedness ("NSEP") guidelines for designating ESL services.

### **1.2.3 Deaf and Disabled Services**

1.2.3.1 The Parties shall cooperate to provide services necessary to serve deaf and disabled service subscribers.

#### **1.2.4 Training Support**

1.2.4.1 Each Party will provide the other Party with sufficient operational instruction to enable the purchasing Party to access any of the providing Party's operational support systems provided for elsewhere in this Agreement.

#### **1.2.5 Carrier Identification Codes**

1.2.5.1 The providing Party shall provide to the purchasing Party a list of active carrier identification codes ("CIC") and shall provide occasional updates, as required, for each of the providing Party's access tandems or functional equivalent; provided, however, that MCI shall be obligated to provide such information only for CIC codes on any MCI access tandem or functional equivalent thereof which do not appear on the most current list provided to MCI by Bell Atlantic for such access tandem or functional equivalent thereof.

### ***Section 2. Ordering and Provisioning***

#### **2.1 General Business Requirements**

##### **2.1.1 Ordering and Provisioning Parity**

2.1.1.1 During the term of this Agreement, Bell Atlantic shall provide necessary ordering and provisioning business process support as well as those technical and systems interfaces as may be required to enable MCI to provide Local Resale services and Network Elements at parity with Bell Atlantic.

##### **2.1.2 CLEC Sales and Support Center ("CSSC")/Single Point of Contact ("SPOC")**

2.1.2.1 Bell Atlantic shall provide up to three (3) CSSCs or reasonable equivalent which shall serve as MCI's SPOC for all activities involved in the ordering and provisioning of Bell Atlantic's Network Elements and Local Resale services. The SPOC shall receive orders (through an electronic interface) twenty-four (24) hours a day, seven (7) days a week.

2.1.2.2 The SPOC shall provide service during the hours of 8:30 a.m. to 4:30 p.m., EST, Monday through Friday (or such additional hours as Bell Atlantic shall provide service to its own subscribers) answered by personnel reasonably trained to answer questions and resolve problems in connection with the ordering and provisioning of Network Elements and Local Resale services.

2.1.2.3 Bell Atlantic shall provide, through electronic interfaces, provisioning and premises visit installation support for coordinated scheduling, status, and dispatch capabilities from 7:00 a.m. to other 10:00 p.m., EST, Monday through Friday, and Saturday from 7:00 a.m. to 8:00 p.m., EST, or for such additional hours as Bell Atlantic shall provide service to its own subscribers. Additional charges will be incurred for dispatches outside of Bell Atlantic's normal work days and work hours.

### **2.1.3 Street Address Guide ("SAG")**

2.1.3.1 Commencing with the Effective Date of this Agreement, if Bell Atlantic should cease using postal information to develop and maintain its SAG, then upon terms and conditions to be mutually agreed, Bell Atlantic shall provide to MCI<sub>m</sub> SAG data, or its equivalent, in a standard electronic format.

### **2.1.4 Subscriber Payment History**

2.1.4.1 Neither Party shall refuse service to a potential subscriber of the other Party on the basis of the subscriber's past payment history with the providing Party, provided that the purchasing Party shall be responsible for payment to the providing Party for purchased services with respect to such subscriber regardless of the payment performance of the subscriber.

### **2.1.5 Carrier Selection**

2.1.5.1 For Local Resale services or Network Elements, Bell Atlantic shall provide to MCI<sub>m</sub>, when ordered by the Commission, the capability to order local service, intraLATA, and interLATA service by entering MCI<sub>m</sub>'s subscriber's choice of carrier on a single order. Bell Atlantic shall provide MCI<sub>m</sub> with the capability to order separate interLATA and intraLATA carriers on a line or trunk (with line side treatment) basis.

2.1.5.2 Where intraLATA toll carrier selection is not implemented, Bell Atlantic agrees to provide intraLATA toll services for Local Resale and Local Switching, to resold or unbundled Switch lines provided to MCI<sub>m</sub>. Where intraLATA toll carrier selection is implemented, Bell Atlantic will route toll calls to the appropriate carrier as designated by MCI<sub>m</sub>.

### **2.1.6 Notification to Long Distance Carrier**

2.1.6.1 Subject to Section 15 of Part A, Bell Atlantic agrees to notify MCI<sub>m</sub> using OBF-approved CARE transactions, whenever an MCI<sub>m</sub> subscriber who is provided local service through Local Resale or Local Switching changes PIC status.

2.1.6.2 Subject to Section 15 of Part A, Bell Atlantic shall support and implement new transaction code status indicators ("TCSIs") defined by OBF in support of Local Resale to enable MCIIm to provide seamless subscriber service.

2.1.6.2.1 Bell Atlantic shall implement TCSIs used in conjunction with the new local service provider ("LSP") identification code for handling account maintenance, subscriber service, and such other codes as OBF may define.

2.1.6.2.2 In addition, Bell Atlantic shall implement TCSIs used in conjunction with the new ported telephone number field to link "shadow" and ported telephone numbers in support of INP.

2.1.6.3 Bell Atlantic shall provide to MCIIm the LSP ID on purchased lists of MCIIm's PIC'd and non-PIC'd subscribers.

2.1.6.4 Bell Atlantic shall provide the ported telephone number on purchased CARE lists of MCIIm's PIC'd and non-other party's PIC'd subscribers.

#### **2.1.7 Number Administration/Number Reservations**

2.1.7.1 Until number administration functions are assumed by a neutral third-party in accordance with FCC Rules and Regulations, Bell Atlantic shall assign NXXs to MCIIm on a Non-Discriminatory Basis with no restrictions other than those imposed upon all carriers under the North American Numbering Plan or comparable conventions. In addition, Bell Atlantic shall provide activation of translations routing of MCIIm's NXXs to meet established national implementation dates. Further, Bell Atlantic shall provide MCIIm with access to abbreviated dialing codes, access arrangements for 555 line numbers, and the ability to obtain telephone numbers, including specific numbers where available, while a subscriber is on the phone with MCIIm, all at Parity. Bell Atlantic shall provide the same range of number choices to MCIIm, including choice of exchange number, as Bell Atlantic provides its own subscribers. Reservation and aging of numbers shall remain Bell Atlantic's responsibility.

2.1.7.2 Where mutually agreed, which agreement shall not be unreasonably withheld, the Parties will implement LERG reassignment for particular NXX codes.

2.1.7.3 Bell Atlantic shall accept MCIIm orders for vanity numbers and blocks of numbers for use with complex services including, but not limited to, direct inward dialing, CENTREX, and hunting arrangements, as

reasonably requested by MCIIm. in accordance with applicable Tariffs, and at Parity.

2.1.7.4 For simple services number reservations, Bell Atlantic shall provide real-time confirmation of the number reservation. For number reservations associated with complex services, Bell Atlantic shall provide confirmation of the number reservation within two (2) business days of MCIIm's request. Number reservations shall be provided in accordance with applicable Tariffs and at Parity with that provided Bell Atlantic's own subscribers.

## **2.2 Service Order Process Requirements**

### **2.2.1 OBF Compliance**

2.2.1.1 Subject to Section 15 of Part A and in accordance with OBF standards, Bell Atlantic and MCIIm shall generally follow the OBF-developed ordering and provisioning process standards. These include pre-order service inquiry, pre-order service inquiry response, firm order acknowledgment/rejection, firm order confirmation, and those to be developed for delay notification, completion notification and the like. Each Party agrees to work cooperatively to implement future relevant OBF-developed processes related to ordering and provisioning.

### **2.2.2 Service Migrations and New Subscriber Additions**

2.2.2.1 Party A shall not require a disconnect order from a subscriber, another local service provider, or any other entity, to establish Party B's local service for a subscriber and/or migrate a subscriber to Party B's local service. Party B shall be responsible for obtaining a Third-Party Verification ("TPV"), Letter of Authorization ("LOA"), or the like which satisfies FCC and Commission requirements.

2.2.2.2 With respect solely to Local Resale services available for resale hereunder, Bell Atlantic shall not disconnect any such service or associated features at any time during the migration of a subscriber to MCIIm service without the prior consent of MCIIm, unless such disconnection is necessitated by the change in service requested by MCIIm. Upon completion of such migration, MCIIm shall be responsible for payment for any such non-disconnected service as set forth in Attachment I to this Agreement.

2.2.2.3 Party A shall recognize Party B as an agent for the subscriber in coordinating the disconnection of services provided by Party A or another carrier. MCIIm shall be responsible for obtaining a TPV, LOA, or the like

which satisfies FCC requirements. In addition, when coordinated cut-over services are ordered, Bell Atlantic shall not disconnect any Bell Atlantic services provided to the Bell Atlantic subscriber until MCIIm notifies Bell Atlantic that MCIIm's service has been installed and operational, except where existing Bell Atlantic facilities are being reused.

2.2.2.4 Unless otherwise directed by MCIIm, when MCIIm orders Local Resale services or Local Switching, all trunk or telephone numbers currently associated with existing POTS services shall be retained without loss of feature capability and without loss of associated ancillary services, including, but not limited to, Directory Assistance Services and 911/E911 capability offered by Bell Atlantic, provided that MCIIm includes such features and ancillary services in its orders.

### 2.2.3 Cut-Over Process

The following cut-over coordination procedures shall apply for conversions of "live" Telephone Exchange Services to Unbundled Local Loops, including conversions to Unbundled Local Loops with INP, and to any other conversions that either Party determines must be coordinated to avoid a substantial risk of significant subscriber service disruption. Although written below to describe only conversions from Bell Atlantic to MCIIm, these and other mutually agreed-upon coordination procedures shall apply reciprocally for the "live" cutover of subscribers from Bell Atlantic to MCIIm and from MCIIm to Bell Atlantic. NP cut-over procedures shall be reasonably agreed by the Parties at such time as the capability has been developed.

2.2.3.1 MCIIm shall request cut-over coordination by delivering to Bell Atlantic a valid electronic transmittal service order (when available) or another mutually agreed-upon type of service order. Such service order shall be provided in accordance with industry format and specifications or such format and specifications as may be agreed to by the Parties. Within forty-eight (48) hours after Bell Atlantic's receipt of such valid service order, Bell Atlantic shall provide MCIIm the FOC date and time according to the installation time frames set forth in Section 2.5 below and for NP, Attachment VII, Section 4.2.

2.2.3.2 On each order, the Parties will agree on a cut-over time at least forty-eight (48) hours before that cut-over. Cut-over time will be defined as a fifteen (15) to thirty (30) minutes per line window within which both Parties will make telephone contact to complete the cut-over. The cut-over window for other methodologies will be agreed to by the Parties.

2.2.3.3 Within the appointed fifteen (15) to thirty (30) minute cut-over time, Bell Atlantic will call MCIm to coordinate cut-over work and when MCIm is reached in that interval, such work will be promptly performed.

2.2.3.4 If MCIm requires a change in scheduling, it must contact Bell Atlantic to issue a supplement to the original order. The negotiations process to determine the date and time of cut-over will then be reinitiated as usual pursuant to Section 2.2.3.3.

2.2.3.5 If MCIm is not ready within the appointed interval and if it had not called to reschedule the work at least two (2) hours prior to the start of the interval, MCIm shall be liable for the non-recurring charge for such work for the missed appointment. In addition, non-recurring charges, if applicable, for the rescheduled appointment will apply.

2.2.3.6 If Bell Atlantic is not available or not ready at any time during the appointed fifteen (15) to thirty (30) minute interval, the Parties will reschedule and Bell Atlantic will waive the non-recurring charge, if applicable, for such work whenever it is performed pursuant to an agreed-upon rescheduling.

2.2.3.7 Beginning nine (9) months from the Effective Date, if unusual or unexpected circumstances prolong or extend the time required to accomplish the coordinated cut-over, the Party responsible for such circumstances is responsible for the reasonable labor charges of the other Party. Delays caused by the MCIm subscriber are the responsibility of MCIm.

#### **2.2.4 Intercept Treatment and Transfer of Service Announcements**

2.2.4.1 For Local Resale services, Bell Atlantic shall provide unbranded basic intercept treatment and transfer of service announcements to MCIm's subscribers.

2.2.4.2 When an end user customer changes its service provider from one Party to the other Party and does not retain its original telephone number, the Party formerly providing service to such end user shall provide a referral announcement on the end user's former telephone number that provides the end user's new number or other appropriate information to the extent known. Referral announcements shall be provided reciprocally, free of charge to either Party or the end user to the extent the providing Party does not charge its own end user customers for such service, for the same period of time the providing Party provides its own end user customers when they change their telephone numbers.

2.2.4.3 The providing Party shall provide such basic treatment and transfer of service announcement in accordance with its normal policies and procedures for all service disconnects, suspensions, or transfers.

#### **2.2.5 Desired Due Date ("DDD")**

2.2.5.1 For services with agreed upon intervals, the purchasing Party shall select on each order the DDD consistent with agreed intervals. For services with variable intervals, the purchasing Party shall select among available due dates, obtained through an electronic interface, for specific services with variable intervals. The providing Party shall use reasonable efforts to not complete the order prior to the DDD or later than the DDD unless authorized by the purchasing Party.

2.2.5.2 If the DDD falls after the standard order completion interval (as mutually agreed by the Parties), the providing Party shall use reasonable efforts to complete the order on the DDD.

2.2.5.3 Subsequent to an initial order submission, the purchasing Party may request a new/revised due date that is earlier than the minimum defined interval. The providing Party shall use reasonable efforts to meet such date and may assess Non-Discriminatory expedite charges. The Parties agree that expedite orders are not to be used as a mechanism for routine avoidance of the standard DDD or standard interval(s) set forth in this Agreement. If (i) the providing Party does not assess an expedite charge on the purchasing Party; and (ii) based on the exercise of reasonable judgment, the providing Party determines that the purchasing Party is using expedite orders at a rate substantially in excess of the rate at which the providing Party and other parties use expedite orders on the providing Party's ordering systems, the providing Party shall immediately notify the purchasing Party at the Director level of escalation. The Parties shall immediately undertake good faith negotiations, based on each Party's data, to resolve the issue at the Director level of escalation, and, failing prompt and successful negotiations, through the complaint processes of the Commission or the FCC.

2.2.5.4 Any special or preferred scheduling options available to the providing Party shall also be available to the purchasing Party. The providing Party may assess Non-Discriminatory charges for such options.

#### **2.2.6 Subscriber Premises Inspections and Installations**

2.2.6.1 MCI shall perform or contract for any needs assessments, including equipment and installation requirements, at the premises of the subscriber, for the provision of MCI services to such subscribers.

2.2.6.2 Bell Atlantic shall notify MCIIm of any problems observed on the customer side of the NID in a timely manner. Bell Atlantic shall not relay to the customer that inside wire could have been performed during a Bell Atlantic technician's visit if the customer was a Bell Atlantic customer rather than an MCIIm customer.

#### **2.2.7 Firm Order Confirmation ("FOC")**

2.2.7.1 Subject to Section 15 of Part A, the providing Party shall provide to the purchasing Party, via an electronic interface, a FOC meeting OBF standards for each purchasing Party order, after a reasonable implementation interval from final acceptance of the particular OBF standard.

2.2.7.2 For a revised FOC, the providing Party shall provide order detail in accordance with OBF standards after a reasonable implementation interval from final acceptance of the particular OBF standard.

#### **2.2.8 Order Rejections**

2.2.8.1 The providing Party shall reject and return to the purchasing Party any order that is incomplete, internally inconsistent, or that the providing Party cannot provision due to defects, including, but not limited to, the requested due date is prior to the submission date. When MCIIm orders reach Bell Atlantic's service order processing systems, those orders will be processed or rejected at Parity.

#### **2.2.9 Service Order Changes**

2.2.9.1 If an installation or other ordered work requires a material change from the original service order, the providing Party shall call the purchasing Party in advance of performing the installation or other work to obtain authorization. The providing Party shall then provide the purchasing Party an estimate of additional labor hours and/or materials. After all installation or other work is completed, the providing Party shall promptly notify the purchasing Party of actual labor hours and/or materials used in accordance with regular service order completion processes.

2.2.9.1.1 If additional work is completed on a service order, as approved by the purchasing Party, the cost of the additional work must be reported to the purchasing Party.

2.2.9.1.2 If work on a service order is partially completed, notification shall identify the work that was performed and work remaining to be completed.

2.2.9.2 If an MCIIm subscriber requests a service change at the time of installation or other work being performed by Bell Atlantic on behalf of MCIIm, Bell Atlantic, while at the subscriber premises, shall direct the MCIIm subscriber to contact MCIIm to order such change.

#### 2.2.10 Jeopardy Situations

2.2.10.1 The providing Party shall provide to the purchasing Party known delayed order notification prior to the committed due date, and other known delays in completing work specified on the purchasing Party's service order as detailed on the FOC, in accordance with mutually agreed procedures.

#### 2.2.11 Cooperative Testing

2.2.11.1 Cooperative Testing shall be performed in accordance with Attachment III, Section 15.1.

#### 2.2.11.2 Systems and Process Testing

2.2.11.2.1 The Parties shall cooperate upon request to assess whether all operational interfaces and processes are in place and functioning as intended. Testing shall simulate actual operational procedures and systems interfaces to the greatest extent possible. Either Party may request cooperative testing as it deems appropriate to assess service performance, reliability, and subscriber serviceability. The requested Party may levy time and materials charges on the requesting Party.

#### 2.2.12 Service Suspensions/Restorations

2.2.12.1 Upon a request through a suspend/restore order, which shall comply with Applicable Law, Bell Atlantic shall suspend or restore the functionality of any Network Element or Local Resale service. Bell Atlantic shall provide restoration priority on a per Network Element or Combination basis in a manner that conforms with priorities requested by MCIIm, which shall comply with Applicable Law.

#### 2.2.13 Disconnects

2.2.13.1 The providing Party shall notify the purchasing Party of any termination of service provided under this Agreement when such termination is requested by the providing Party or any third-party. Such notice shall be in a format and detail consistent with industry standards.

#### **2.2.14 Order Completion Notification**

2.2.14.1 Subject to Section 15 of Part A and when industry standards are developed for such service, and after a reasonable implementation interval, upon completion of a service order by the providing Party, the providing Party shall submit to the purchasing Party an order completion which reasonably details the work performed. Notification shall be provided in accordance with industry standards when developed. The Parties will cooperate in the interim to assure adequate notification.

#### **2.2.15 Fulfillment Process**

2.2.15.1 Each Party shall conduct all activities associated with the account fulfillment process for all of its subscribers.

#### **2.2.16 Specific Unbundling Requirements**

2.2.16.1 MCIIm may order and Bell Atlantic shall provision Network Elements either individually or in Technically Feasible Combinations. Network Elements ordered as combined shall be reasonably provisioned as combined by Bell Atlantic, unless MCIIm specifies that the Network Elements ordered in Combination be provisioned separately.

2.2.16.2 Prior to providing service in a specific geographic area or when MCIIm requires a change of network configuration, the Parties shall cooperate in planning the preparation of Network Elements and Switch translations in advance of orders for additional Network Elements from MCIIm.

2.2.16.3 For mutually-agreed Combinations of Network Elements, Network Elements that are currently connected and ordered together will not be physically disconnected, except for technical reasons.

2.2.16.4 Network Elements to be provisioned together shall be identified and ordered by MCIIm as such.

2.2.16.5 When ordering a Combination of Network Elements, MCIIm shall have the option of ordering all features, functions and capabilities of each Network Element, as they exist in Bell Atlantic's network on the Effective Date.

2.2.16.6 When MCIIm orders Network Elements, Bell Atlantic shall provision the features, functions, and capabilities of the Network Elements specified in this Agreement for such element, as reflected on MCIIm's order.

2.2.16.7 MCI and Bell Atlantic shall cooperate and coordinate activities including the sharing of relevant specifications in such a manner as to promote compatibility between and among respective service elements.

2.2.16.8 Orders for Network Elements will generally contain relevant administration, bill, contact, and subscriber information, as defined by the OBF.

## 2.3 Systems Interfaces and Information

### 2.3.1 General Requirements

2.3.1.1 Where access to operational support systems functionality is required, Bell Atlantic shall provide to MCI electronic interface(s) for transferring and receiving information and executing transactions in regards to service ordering and provisioning of Network Elements and Local Resale. Subject to Section 15 of Part A, the interface(s) shall be capable of supporting the steps in the OBF-developed ordering and provisioning process no later than April 1, 1997.

2.3.1.2 Bell Atlantic interfaces shall provide MCI with the same process and system capabilities for both residence and business ordering and provisioning at Parity.

2.3.1.3 Bell Atlantic and MCI shall agree on and implement interim solutions for Bell Atlantic interfaces within forty-five (45) days after the Effective Date of this Agreement. Such interim interface(s) shall, at a minimum, provide MCI the same functionality and level of service as is currently provided by the electronic interfaces used by Bell Atlantic for its own systems, users, or subscribers.

2.3.1.4 The foregoing interim interfaces or processes may be modified, if so agreed by MCI and Bell Atlantic, during the interim period.

2.3.1.5 Until the Party's electronic interfaces are available, the providing Party agrees that a co-carrier service center ("CSSC") or similar function will accept a purchasing Party's orders. Orders will be transmitted to the CSSC via an interface or method agreed upon by the Parties.

2.3.1.6 For territories in which Bell Atlantic provides Telephone Exchange Services, Bell Atlantic shall provide MCI with at least 1-2 months prior notification of local calling area changes, and generally publish any area code splits at least three (3) months prior to such splits going into effect.

2.3.1.7 Bell Atlantic shall provide to MCIIm, via an electronic interface, a list by end office switch of all CLASS, CENTREX and all other features and functions and shall provide updates to such list at the time new features and functions become available.

### 2.3.2 Ordering and Provisioning for Resale Services

2.3.2.1 Bell Atlantic shall provide to MCIIm all intraLATA (when presubscription is available) and interLATA carriers available for subscriber selection based on a valid subscriber address.

#### 2.3.2.2 [RESERVED]

2.3.2.3 Subject to the provisions of Part A, Section 22 (Confidentiality and Publicity) and in accordance with all Applicable Law and regulations, the providing Party shall provide the requesting Party with access to CPNI of a requesting Party subscriber without requiring the requesting Party to produce a signed LOA based on the requesting Party's representation that the subscriber has authorized the requesting Party to obtain such CPNI.

2.3.2.3.1 Bell Atlantic shall provide to MCIIm an electronic interface to Bell Atlantic subscriber information systems which will allow MCIIm to obtain Bell Atlantic's current subscriber profile based on valid bill telephone number or working telephone number, including subscriber name, billing and service addresses, billed telephone number(s), and identification of features and services on the subscriber accounts, and, in response to a valid telephone number or address, allow MCIIm to obtain information on features and services available in the end office where subscriber's services are currently provisioned.

2.3.2.3.2 Until access is available via an electronic interface for subscriber profile information, MCIIm agrees that Bell Atlantic can obtain subscriber profile information in an interim manner. The Parties shall agree on and implement interim solutions for interfaces within forty-five (45) days after the Effective Date of this Agreement.

2.3.2.4 Bell Atlantic shall provide to MCIIm a list of Local Resale services, including new services and eligible trial offers and promotions, within sixty (60) days after the Effective Date of this Agreement, and shall provide updates to such information as soon as practicable after new features and functions become available.

2.3.2.5 Bell Atlantic shall provide to MCIIm mediated query-response via an electronic interface to Bell Atlantic information systems as soon as possible, but no later than April 1, 1997 to allow MCIIm to:

2.3.2.5.1 assign telephone number(s) (if the subscriber does not already have a telephone number or requests a change of telephone number):

2.3.2.5.2 schedule dispatch and installation appointments:

2.3.2.5.3 provide service availability dates; and

2.3.2.5.4 transmit status information on service orders. Until the electronic interface is available, Bell Atlantic agrees that it will provide status on service orders at the following critical intervals: acknowledgment and firm order confirmation according to interim procedures to be mutually developed.

### 2.3.3 Ordering and Provisioning for Unbundling

2.3.3.1 Bell Atlantic shall provide to MCIIm, upon reasonable request a listing of available, orderable services for Network Elements.

2.3.3.2 Bell Atlantic shall provide to MCIIm upon request such engineering design and layout information for Network Elements as may be mutually agreed.

2.3.3.3 Bell Atlantic shall provide to MCIIm an electronic interface as soon as practicable after applicable OBF standards are formally accepted which will allow MCIIm to determine service due date intervals and schedule appointments.

2.3.3.4 Where applicable, Bell Atlantic shall provide to MCIIm information on charges associated with special construction. Bell Atlantic agrees that it will, as soon as practicable, notify MCIIm of any charges associated with necessary construction.

2.3.3.5 On request from MCIIm, Bell Atlantic shall provide MCIIm with results from mechanized loop tests where such tests are Technically Feasible on a time and materials basis or at Commission-approved rates, as appropriate.

2.3.3.6 Bell Atlantic shall provide MCIIm with confirmation of circuit assignments at Parity.

## 2.4 Standards

### 2.4.1 General Requirements

2.4.1.1 MCIIm and Bell Atlantic shall agree upon the appropriate ordering and provisioning codes to be used for Network Elements. These codes shall apply to all aspects of the unbundling of that element or Combination of elements and shall be known as data elements as defined by the Telecommunications Industry Forum Electronic Data Interchange Service Order Subcommittee ("TCIF-EDI-SOSC").

### *Section 3. Billing and Recording*

This Section 3 describes the requirements for Bell Atlantic to bill and record charges MCIIm incurs when purchasing services under this Agreement, except as may be otherwise specified in this Agreement.

### 3.1 Billable Information And Charges

#### 3.1.1 Interim Billing

The interim billing process described herein shall commence upon the Effective Date and continue until replaced by the standard billing process described below, with such replacement by no later than the end of the third quarter 1997 for Local Resale services purchased from Bell Atlantic by MCIIm. With regard to Network Elements, interim billing shall commence upon the Effective Date and continue until replaced by standard Billing Operations System ("BOS") billing for such elements. Bell Atlantic shall implement the BOS release that includes Network Element billing as soon as practicable after the release is available, and will promptly inform MCIIm in writing if, given the nature and magnitude of that release, implementation is likely to take more than sixty (60) days after the release is made available. Notwithstanding the foregoing, with respect to unbundled loops, unbundled switching and INP, Bell Atlantic will provide MCIIm with an implementation date for BOS billing within ninety (90) days after the Effective Date.

3.1.1.2 Except as otherwise provided in this Section 3, Bell Atlantic will use its existing billing systems to issue bills and invoices to MCIIm for amounts due under this Agreement. These bills and invoices will contain a summary of account charges with component elements and/or records when applicable. The Parties acknowledge that Bell Atlantic's existing billing system does not issue bills or invoices in accordance with national industry standard specifications in all respects.

3.1.1.3 Bell Atlantic will provide MCIIm with the capability to summarize by features and functions both monthly recurring and non-recurring charges. This capability may be satisfied by use of Bell Atlantic's CD-ROM billing for Resellers. Bell Atlantic shall cooperate with MCIIm on the testing and acceptance of interim billing procedures.

3.1.1.4 The providing Party will initially identify the purchasing Party's Billing Account Numbers (BAN) (or for MCIIm, the functionally equivalent thereof) and will not change them without ten (10) days advance written notice to the purchasing Party.

3.1.1.5 The providing Party will use a minimum of two BANs per state, one for residential customers and one for business customers. The Parties acknowledge that in Bell Atlantic's billing system, only 50,000 component accounts can be on one summary bill and that a new summary bill may be created when any MCIIm master account exceeds 45,000 component accounts.

3.1.1.6 Bell Atlantic will not use the 7th or the 14th day of the month for bill closing dates.

3.1.1.7 The providing Party will use reasonable efforts to transmit paper bills to the purchasing Party within ten (10) days of the bill closing date. If the providing Party fails to transmit an invoice within the time period specified above, the payment due date for that invoice will be extended by the number of days it is late.

### 3.1.2 Standard Billing

3.1.2.1 The providing Party will bill services in accordance with this Section 3 and at the rates set forth in Attachment I. The providing Party will use commercially reasonable efforts to format its electronic bills in accordance with national industry standard specifications, as appropriate. These electronic bills will include a separate and unique billing code for, and the quantity of, each type of service purchased by the purchasing Party. The providing Party will jurisdictionally identify the charges on these bills wherever it has the information necessary to do so. Wherever the providing Party is unable to identify the jurisdiction of the service purchased by the purchasing Party, the Parties will jointly develop a process to determine the appropriate jurisdiction.

3.1.2.2 The providing Party will bill the purchasing Party on a monthly basis under this Agreement. These monthly bills will include all appropriate charges, credits and adjustments for the services that were

ordered, established, utilized, discontinued or performed during the relevant billing period.

3.1.2.3 The providing Party and the purchasing Party will use reasonable commercial efforts to establish the same monthly billing date ("Bill Date") for each purchasing Party account within the state. The providing Party will include the Bill Date on each invoice transmitted to the purchasing Party. The payment due date (as described in this Attachment) shall be thirty (30) calendar days after the Bill Date. The providing Party will transmit all invoices within ten (10) calendar days after the Bill Date. Any invoice transmitted on a Saturday, Sunday or a day designated as a holiday by the Parties' bill processing departments will be deemed transmitted on the next business day. If the providing Party fails to transmit an invoice within the time period specified above, the payment due date for that invoice will be extended by the number of days it is late.

3.1.2.4 The providing Party will use the same account identification numbers each month, unless it provides the purchasing Party with ten (10) days advance written notice of any change. If either Party requests an additional copy(ies) of a bill, such Party shall pay the other Party a reasonable fee per additional bill copy, unless such copy was requested due to an error or omission of the providing Party.

3.1.2.5 Except as otherwise specified in this Agreement, each Party shall be responsible for (i) all costs and expenses it incurs in complying with its obligations under this Agreement; and (ii) the development, modification, technical installation and maintenance of any systems or other infrastructure which it requires to comply with and to continue complying with its responsibilities and obligations under this Agreement.

3.1.2.6 The providing Party and purchasing Party will identify a contact person for the handling of any questions or problems that may arise during the implementation and performance of the terms and conditions of this Attachment.

### 3.1.3 Meet-Point Billing

3.1.3.1 For purposes of this Section 3.1.3, "Tandem Party" shall mean the Party connected to the IXC. The "End Office Party" shall mean the Party using the Tandem Party to reach the IXC. The End Office Party and the Tandem Party will utilize commercially reasonable efforts, individually and collectively, to establish meet-point billing ("MPB") arrangements to provide a Common Transport option to switched Access Services subscribers via an access Tandem Switch in accordance with the Meet-Point Billing guidelines adopted by and contained in the OBF's MECAB

and MECOD documents, except as modified herein and the Tandem Party's Tariffs. The arrangements described in this section are intended to be used to provide switched Exchange Access Service that originates and/or terminates on a Telephone Exchange Service that is provided by either Party, where the transport component of the switched Exchange Access Service is routed through a Tandem Switch that is provided by the Tandem Party.

3.1.3.2 In each LATA, the Parties shall establish MPB arrangements between the applicable rating point/the Tandem Party local serving Wire Center combinations.

3.1.3.3 Interconnection for the MPB arrangement shall occur at the applicable access tandems or functional equivalent in the LATA, unless otherwise agreed to by the Parties.

3.1.3.4 The Parties will use commercially reasonable efforts, individually and collectively, to maintain provisions in their respective federal and state access Tariffs, and/or provisions within the National Exchange Carrier Association ("NECA") Tariff No. 4, or any successor Tariff, to reflect the MPB arrangements identified in this Agreement, in MECAB and in MECOD.

3.1.3.5 Each Party will implement the "multiple bill/single tariff" or "multiple bill/multiple tariff" option, as appropriate, in order to bill any IXC for the portion of the jointly provided Access Service provided by that Party. For all traffic carried over MPB arrangements using Network Elements or interconnection services provided under this Agreement, the Parties shall bill each other all applicable rates specified in this Agreement.

3.1.3.6 The rate elements to be billed by each Party are as set forth below. The actual rate values for each Party's affected Access Service rate element shall be the rates contained in that Party's own effective federal and state access Tariffs, or other document that contains the terms under which that Party's Access Services are offered. The MPB billing percentages for each rating point/Tandem Party local serving Wire Center Combination shall be calculated in accordance with the formula set forth in subsection 3.1.3.15 below.

## 3.1.3.6.1 Rate Elements under Meet-Point Billing

Interstate Access - Terminating to or originating from End Office Party subscribers

<u>Rate Element</u>	<u>Billing Company</u>
Carrier Common Line	End Office Party
Local Switching	End Office Party
Interconnection Charge	End Office Party
Local Transport Facility/ Tandem Switched Transport Per Mile	Based on negotiated billing percentage
Tandem Switching	Tandem Party
Local Transport Termination/ Tandem Switched Transport Fixed	Tandem Party
Entrance Facility	Tandem Party
800 Database Query	Party that performs query

Intrastate Access - Terminating to or originating from End Office Party subscribers (Pre-LTR tariff)

<u>Rate Element</u>	<u>Billing Company</u>
Carrier Common Line	End Office Party
Local Switching	End Office Party
Transport	Based on negotiated billing percentage

Intrastate Access - Terminating to or originating from End Office Party subscribers (Post-LTR tariff)

<u>Rate Element</u>	<u>Billing Company</u>
Carrier Common Line	End Office Party
Local Switching	End Office Party
Interconnection Charge	End Office Party
Local Transport Facility/ Tandem Switched Transport Per Mile	Based on negotiated billing percentage
Tandem Switching	Tandem Party
Local Transport Termination/ Tandem Switched Transport Fixed	Tandem Party
Entrance Facility	Tandem Party
800 Database Query	Party that performs query

3.1.3.7 Each Party shall provide the other Party with the billing name, billing address, and carrier identification code ("CIC") of the IXC, and identification of the IXC's local serving Wire Center in order to comply

with the MPB notification process as outlined in the MECAB document via facsimile or such other media as the Parties may agree to, all in accordance with a Party's existing offerings.

3.1.3.8 The Tandem Party will provide the End Office Party with the switched access detail usage data (category 1101XX records) on magnetic tape or via such other media as the Parties may agree to, no later than ten (10) business days of bill rendering.

3.1.3.9 The End Office Party will provide the Tandem Party with the switched access detail usage data (category 1101XX records) on magnetic tape or via such other media as the Parties may agree to, no later than ten (10) business days after the date the usage occurred.

3.1.3.10 The Parties will coordinate and exchange the billing account reference ("BAR") and billing account cross reference ("BACR") numbers or OCN, as appropriate, for the MPB arrangements described in this Agreement. Each Party will notify the other if the level of billing or other BAR/BACR elements change, resulting in a new BAR/BACR number.

3.1.3.11 Errors in MPB data exchanged by the Parties may be discovered by the End Office Party, the Tandem Party or the billable IXC. Both the End Office Party and the Tandem Party agree to provide the other Party with notification of any discovered errors as soon as practicable following such discovery. The other Party shall attempt to correct the error and resubmit the data as soon as practicable after notification. In the event the errors cannot be corrected within the time period specified above, the erroneous data shall be considered lost. If MPB data is lost due to incorrecable errors or otherwise, both Parties shall cooperate to reconstruct the lost data and, if such reconstruction is not possible, shall accept a reasonable estimate of the lost data based upon prior usage data. Each Party shall be responsible for any lost revenue arising from its inability to relocate lost data that is adequate to support the other Party's billing of IXCs' subscriber(s).

3.1.3.12 Neither Party will charge the other for the services rendered, or for information provided pursuant to this Section 3, except those MPB and other charges set forth herein. Both Parties will identify a contact person to handle any MPB questions or problems.

3.1.3.13 MPB will apply for all traffic bearing the 500, 900, 800/888 (to the extent provided by an IXC) or any other non-geographic NPA which may be likewise designated for such traffic in the future.

3.1.3.14 In the event a Party determines to offer Telephone Exchange Services in a LATA in which the other Party operates an access Tandem Switch, the Tandem Party shall permit and enable the End Office Party to subtend the Tandem Party access Tandem Switch(es) designated for the Tandem Party end offices in the area where the End Office Party rating points(s) associated with the NPA-NXX(s) to/from which the switched Exchange Access Services are homed. The MPB billing percentages for each new rating point/the End Office Party local serving Wire Center Combination shall be calculated according to the following formula:

$a / (a + b) = \text{End Office Party Billing Percentage}; \text{ and}$

$b / (a + b) = \text{Tandem Party Billing Percentage}$

where:

a = the airline mileage between the rating point and the actual point of interconnection for the MPB arrangement; and

b = the airline mileage between the Tandem Party local serving Wire Center and the actual point of interconnection for the MPB arrangement.

The End Office Party shall inform the Tandem Party of the LATA in which it intends to offer Telephone Exchange Services and its calculation of the billing percentages which should apply for such arrangement. Within ten (10) business days of the End Office Party's delivery of notice to the Tandem Party, the Tandem Party and the End Office Party shall confirm the new rating point/Tandem Party local serving Wire Center Combination and billing percentages. Nothing in this subsection shall be construed to limit the End Office Party's ability to interconnect with the Tandem Party in additional LATAs by means of interconnection at a local serving Wire Center, to the extent that such interconnection is permitted under this Agreement.

### 3.1.4 Collocation

3.1.4.1 Bell Atlantic agrees to issue a separate bill to MCI for any Collocation capital expenditures (*e.g.*, costs associated with building the "cage") incurred under this Agreement. Bell Atlantic will send these separate bills for Collocation capital expenses to the location specified by MCI. Bell Atlantic will bill all other non-capital recurring Collocation rates to MCI in accordance with this Section 3.

### 3.1.5 Local Number Portability

3.1.5.1 The providing Party agrees to track and record the purchasing Party's Interim Number Portability usage. After the Commission establishes a final competitively neutral Interim Number Portability funding mechanism and rate, the providing Party will bill the purchasing Party for the usage that accrued before the Commission's final decision. The purchasing Party agrees to pay these bills with appropriate Commission-determined interest charges, but reserves the right to challenge the accuracy of the tracking.

3.1.5.2 Under the INP arrangement in this Agreement, terminating compensation on calls to ported numbers should be received by each customer's chosen local service provider as if each call to the customer had been originally addressed by the caller to a telephone number bearing an NPA-NXX directly assigned to the customer's chosen local service provider. In order to accomplish this objective where INP is employed, the Parties shall utilize the process set forth in this Subsection 3.1.5.2 whereby terminating compensation on calls subject to INP will be passed from the Party that performs the INP to the other Party for whose subscriber the INP is provided.

3.1.5.2.1 The Parties shall individually and collectively make best efforts to track and quantify INP traffic between their networks based on the CPN of each call by identifying CPNs which are ported numbers. MCI shall charge Bell Atlantic for each minute of INP traffic at the INP traffic rate specified in Subsection 3.1.5.2.3 in lieu of any other compensation charges for terminating such traffic, except as provided in Subsection 3.1.5.2.2.

3.1.5.2.2 By the interconnection activation date within a LATA, the Parties shall jointly estimate for the prospective six (6) months, based on historic data of all traffic in the LATA, the percentages of such traffic that, if dialed to telephone numbers bearing NPA-NXXs directly assigned to MCI (as opposed to the ported number), would have been subject to: (i) local compensation ("Local Traffic"); (ii) appropriate intrastate FGD charges ("Intra Traffic"); (iii) interstate FGD charges ("Inter Traffic"); or (iv) handling as transit traffic. On the date which is six (6) months after the interconnection activation date, and thereafter on each succeeding six month anniversary of such interconnection activation date, the Parties shall establish new INP traffic percentages in the prospective six (6) month period, based on Bell Atlantic's choice of actual INP traffic percentages from the

preceding six (6) month period or historic data of all traffic in the LATA.

3.1.5.2.3 The INP traffic rate shall be equal to the sum of:

(Local Traffic percentage times the rate for local traffic transportation and termination set forth in Attachment I)

plus

(Intra Traffic percentage times MCI's effective intrastate FGD rates)

plus

(Inter Traffic percentage times MCI's effective interstate FGD rates).

MCI shall compensate Bell Atlantic for its billing and collection of charges for the intrastate and interstate FGD Access Services provided by MCI to a third-party through the greater of: (i) the difference between the intrastate and interstate FGD rates of MCI and Bell Atlantic; or (ii) three percent (3%) of Bell Atlantic's intrastate and interstate FGD revenues for ported numbers. Under no circumstances shall Bell Atlantic, in performing the billing and collections service on behalf of MCI, be obligated to pass through more than ninety-seven percent (97%) of its FGD access charge to MCI in connection with any given ported call.

### 3.1.6 Electronic Transmissions

3.1.6.1 The providing Party agrees to transmit bills and invoices in the appropriate CABS or SECAB format electronically via Connect:Direct (formerly known as Network Data Mover) to the purchasing Party at an agreed upon location.

### 3.1.7 Tape or Paper Transmissions

3.1.7.1 In the event that the Connect:Direct capabilities of either Party are not available, the Parties will transmit billing information to each other via magnetic tape or paper, as agreed to by the Parties. The Parties shall cooperate in determining such alternate billing methods, when necessary.

### 3.1.8 Payment Of Charges

3.1.8.1 Payments of all undisputed amounts due under this Agreement shall be made in U.S. Dollars no later than the due date on an invoice or bill. At least thirty (30) days prior to the first transmission of a bill or invoice under this Agreement, the Parties shall provide each other the name and address to whom payment shall be made, including where appropriate, the respective banks, and account and routing numbers. If

such banking information changes, each Party shall provide the other Party at least sixty (60) days written notice of the change and such notice shall include the new banking information. In the event the purchasing Party receives multiple bills or invoices from the providing Party which are payable on the same date, the purchasing Party may remit one payment for the sum of all bills and invoices. Each Party shall provide the other Party with a contact person for the handling of payment questions or problems under this Agreement.

3.1.8.2 Undisputed amounts which are not paid by the due date stated on the providing Party's bill shall be subject to a late payment charge. The late payment charge shall be in the amount provided in Bell Atlantic's interstate access tariff; provided, that in the absence of an interstate access tariff late payment charge, the late payment charge shall be in an amount specified by the providing Party, which shall not exceed a rate of one and one-half percent (1.5%) of the overdue amount (including any unpaid, previously billed late payment charges) per month.

3.1.8.3 Although it is the intent of each Party as a providing Party to submit timely and accurate bills, failure by a providing Party to present bills to a purchasing Party in a timely or accurate manner shall not constitute a breach or default of this Agreement, or a waiver of a right of payment of the incurred charges, by the providing Party. Closure of a specific billing period shall occur by joint agreement of the Parties whereby the Parties agree that such billing period is closed to any further charges, analysis and financial transactions, except those resulting from an Audit or for charges due under a "true-up" of charges pursuant to Sections 3.1.5 hereunder. Closure shall take place within nine (9) months of the Bill Date. The month being closed represents those charges that were billed or should have been billed by the respective Bill Date.

### 3.1.9 Billing Dispute

3.1.9.1 Subject to and without waiver of any of the providing Party's rights under Section 21.3 of Part A of this Agreement, each Party agrees to notify the other Party upon the discovery of a billing dispute. In the event of a billing dispute, the Parties will endeavor to resolve the dispute within sixty (60) days of the Bill Date on which such disputed charges appear. Resolution of the dispute is expected to occur at the first level of management resulting in a recommendation for settlement of the dispute and closure of a specific billing period. If the issues are not resolved within the allotted time frame, the following resolution procedure will begin:

3.1.9.1.1 If the dispute is not resolved within sixty (60) days of the Bill Date, the dispute will be escalated to the second level of management for each of the respective Parties for resolution.

3.1.9.1.2 If the dispute is not resolved within ninety (90) days of the Bill Date, the dispute will be escalated to the third level of management for each of the respective Parties for resolution.

3.1.9.1.3 If the dispute is not resolved within one hundred and twenty (120) days of the Bill Date, the dispute will be resolved in accordance with the dispute resolution procedures set forth in Part A of this Agreement.

3.1.9.2 Upon resolution of the dispute, the relevant Party shall pay all amounts determined to have been due in accordance with Section 21.3 of Part A.

## 3.2 Standards

3.2.1 At least twenty (20) days prior to the providing Party transmitting a bill or invoice to the purchasing Party for the first time via electronic transmission or tape, or at least thirty (30) days prior to changing mechanized formats (i.e., from SECAB to CABS), the providing Party will transmit to the purchasing Party a test bill or invoice in the appropriate mechanized format. The providing Party will also provide to the purchasing Party the providing Party's originating or state level company code, so that it may be added to the purchasing Party's internal tables at least twenty (20) calendar days prior to testing or a change in the providing Party's originating or state level company code. The purchasing Party will notify the providing Party within the time period agreed to by the Parties if the test bill or invoice transmission fails to meet the purchasing Party's testing specifications. The Parties will work cooperatively to resolve any problems identified by the transmission of the test bill or invoice.

3.2.2 As mutually agreed upon prior to any change in existing formats or change to a different format, the providing Party shall send to the purchasing Party connectivity bill data in the appropriate mechanized format for testing to ensure that the bills can be processed and that the bills comply with the requirements of this Attachment. The providing Party agrees that it shall not send to the purchasing Party bill data in the new mechanized format until such bill data has met the testing specifications as set forth in this subsection. The providing Party shall provide the purchasing Party documentation on proposed format changes within ninety (90) days of the implementation of such changes.

3.2.3 The providing Party agrees that if it transmits data to the purchasing Party in a mechanized format, the providing Party shall also comply with the following

specifications which are not contained in CABS or SECAB guidelines, but which are necessary for the purchasing Party to process connectivity billing information and data:

3.2.3.1 The Bill Date shall not contain spaces or non-numeric values.

3.2.3.2 Each Connectivity Bill must contain at least one detail record, unless no usage has been recorded. Industry standards require that zero bills be rendered.

3.2.3.3 Any "from" date should be less than the associated "thru" date and neither date can contain spaces, unless otherwise permitted under applicable industry standards.

3.2.3.4 The invoice number must not have embedded spaces or low values.

3.2.4 The providing Party agrees to use commercially reasonable efforts to transmit to the purchasing Party accurate and current bills and invoices. If necessary beyond the provisions of this Section 3, the Parties agree to negotiate implementations of controls and processes to facilitate the transmission of accurate and current bills and invoices.

#### ***Section 4. Provision Of Subscriber Usage Data***

For Local Resale and Local Switching, this Section 4 sets forth the terms and conditions for Bell Atlantic's provision of Recorded Usage Data (as defined in Section 4.1.1.3 below) to MCIIm in connection with the provision to MCIIm of Bell Atlantic's Switch-based services.

#### **4.1 Procedures**

##### **4.1.1 General**

4.1.1.1 Bell Atlantic shall use commercially reasonable efforts to comply with OBF and other standards set forth in this Section 4. To satisfy this requirement, Bell Atlantic and MCIIm shall mutually agree to the interpretation of any such standards referred to in this Section 4.

4.1.1.2 Bell Atlantic shall use commercially reasonable efforts to comply with Bellcore-documented EMR standards and the additional standards set forth in this Section 4 when recording and transmitting Recorded Usage Data to MCIIm.

4.1.1.3 Bell Atlantic shall record such Recorded Usage Data originating from MCIIm subscribers that Bell Atlantic records with respect to its own

customers in the ordinary course of business, using services ordered by MCIIm. "Recorded Usage Data" as used in this Section 4 means billing detail recorded in the normal course of business by Bell Atlantic including, but not limited to, billing detail recorded for the following categories of information:

4.1.1.3.1 Completed calls:

4.1.1.3.2 Use of CLASS/LASS/Custom features:

4.1.1.3.3 Calls to Directory Assistance where Bell Atlantic provides such service to an MCIIm subscriber:

4.1.1.3.4 Calls completed via Bell Atlantic's Operator Services where Bell Atlantic provides such service to MCIIm's subscribers:  
and

4.1.1.3.5 CENTREX usage recorded by Bell Atlantic on its switches in the normal course of business.

4.1.1.4 **Retention of Records.** Bell Atlantic shall maintain a machine readable back-up copy of the message detail provided to MCIIm for the Recorded Usage Data described above for a minimum of forty-five (45) calendar days.

4.1.1.5 Bell Atlantic shall provide to MCIIm Recorded Usage Data for MCIIm subscribers in accordance with the terms herein. Bell Atlantic shall not submit other carrier local usage data as part of MCIIm Recorded Usage Data.

4.1.1.6 MCIIm, and not Bell Atlantic, shall bill MCIIm subscribers for services purchased by MCIIm hereunder.

4.1.1.7 For Local Resale, Bell Atlantic shall record and rate all calls to information service providers (*i.e.*, 976 service calls) and include such information on the data usage file ("DUF") provided to MCIIm hereunder. MCIIm shall bill such calls directly to its subscribers. To the extent either Party offers variable rated service (*e.g.*, 976, 554, and/or 915, as applicable), the Parties shall agree to separate arrangements for the billing and compensation of such services. With respect to unbundled Local Switching, Bell Atlantic shall record, and provide to MCIIm, unrated calls to information service providers (*i.e.*, 976 service calls) and include such information on the data usage file ("DUF") provided to MCIIm hereunder.

4.1.1.8 Bell Atlantic shall provide Recorded Usage Data to MCIIm billing locations as reasonably designated by MCIIm.

4.1.1.9 Bell Atlantic shall establish a CLEC sales and service center (CSSC) or similar function to serve as MCIIm's single point of contact to respond to MCIIm's call usage, data error, and record transmission inquiries.

4.1.1.10 Bell Atlantic shall provide MCIIm with a single point of contact, remote identifiers ("IDs"), and expected usage data volumes for each sending location.

4.1.1.11 MCIIm shall provide a single point of contact responsible for receiving usage transmitted by Bell Atlantic and receiving usage tapes from a courier service in the event of a facility outage.

4.1.1.12 Bell Atlantic shall bill MCIIm, and MCIIm shall pay such charges for Recorded Usage Data at the prices set forth in Attachment I. Billing and payment shall be in accordance with the applicable terms and conditions set forth in Attachment VIII, Section 3.

**4.1.2 Incomplete Calls.** No charges shall be assessed by Bell Atlantic for incomplete call attempts, unless Bell Atlantic assesses a charge for such incomplete call attempts to its subscribers.

**4.1.3 Central Clearinghouse & Settlement (ICS/Non-ICS Incollects/Outcollects)**

4.1.3.1 Bell Atlantic shall comply with clearinghouse and incollect/outcollect procedures to be determined by the Parties from time to time.

4.1.3.2 Bell Atlantic shall reasonably cooperate with MCIIm in its development of a neutral third-party in and out-collect process developed for intra-region alternately billed messages.

4.1.3.3 Bell Atlantic shall settle with MCIIm intra-region and inter-region billing exchanges relating to calling card calls, bill-to-third-party calls and collect calls.

**4.1.4 Lost Data**

4.1.4.1 Loss of Recorded Usage Data - MCIIm Recorded Usage Data determined to have been lost, damaged or destroyed as a result of an error or omission by Bell Atlantic in its performance of the recording function

shall, upon MCI's request, be recovered by Bell Atlantic at no charge to MCI. In the event the data cannot be recovered by Bell Atlantic, Bell Atlantic shall estimate the messages and associated revenue, with assistance from MCI, based upon the method described below. This method shall be applied on a consistent basis, subject to modifications agreed to by Bell Atlantic and MCI. This estimate shall be used to adjust amounts MCI owes Bell Atlantic for services Bell Atlantic provides in conjunction with the provision of Recorded Usage Data.

4.1.4.2 Partial Loss - Bell Atlantic shall review its daily controls to determine if data has been lost. When there has been a partial loss, actual message and minute volumes shall be reported, if possible. Where actual data are not available, a full day shall be estimated for the recording entity, as outlined in the following paragraphs. The amount of the partial loss is then determined by subtracting the data actually recorded for such day from the estimated total for such day.

4.1.4.3 Complete Loss - Estimated message and minute volumes for each loss consisting of an entire AMA tape or entire data volume due to its loss prior to or during processing, lost after receipt, degaussed before processing, receipt of a blank or unreadable tape, or lost for other causes, shall be reported.

4.1.4.4 Estimated Volumes - From message and minute volume reports for the entity experiencing the loss, Bell Atlantic shall secure message/minute counts for the four (4) corresponding days of the weeks preceding that in which the loss occurred and compute an average of these volumes.

4.1.4.5 If the day of loss is not a holiday but one (1) (or more) of the preceding corresponding days is a holiday, use additional preceding weeks in order to procure volumes for two (2) non-holidays in the previous two (2) weeks that correspond to the day of the week that is the day of the loss.

4.1.4.6 If the loss occurs on a weekday that is a holiday (except Christmas and Mother's day), Bell Atlantic shall use volumes from the two (2) preceding Sundays.

4.1.4.7 If the loss occurs on Mother's Day or Christmas day, Bell Atlantic shall use volumes from that day in the preceding year multiplied by a growth rate specified by MCI.

4.1.4.8 MCI may also request data be provided that has previously been successfully provided by Bell Atlantic to MCI. Bell Atlantic shall re-

provide such data, if available. Any charges to MCIIm will be negotiated on a case by case basis.

#### **4.1.5 Testing, Changes and Controls**

4.1.5.1 The Recorded Usage Data, EMR format, content, and transmission process shall be tested as set forth in this subsection 4.1.5 and, if necessary, as otherwise agreed by the Parties.

4.1.5.2 **Interface Testing.** The purpose of this test is to determine whether the usage records can be sent by Bell Atlantic to MCIIm and can be accepted and processed by MCIIm. Bell Atlantic shall provide a test file to MCIIm's designated regional processing center ("RPC") in the format that shall be used for Bell Atlantic's live day-to-day processing. The file shall contain one (1) full day's production usage and all potential call types. MCIIm shall also provide Bell Atlantic with the agreed-upon control reports as part of this test.

4.1.5.3 Pursuant to a separate testing agreement between the Parties, for testing purposes Bell Atlantic shall provide MCIIm with Bell Atlantic recorded, unrated usage for a minimum of five (5) consecutive days. MCIIm shall provide Bell Atlantic with the message validation reports associated with test usage.

4.1.5.4 **Test File.** Test data should be transported via industry standard on-line transmission software. In the event that courier service must be used to transport test media, the physical tape characteristics to be used are described in Subsection 4.2.3.2.

4.1.5.5 **Periodic Review.** Control procedures shall be part of the normal production interface management function. Breakdowns which impact the flow of usage data between Bell Atlantic and MCIIm shall be identified and jointly resolved as they occur. The resolution may include changes to control procedures to avoid similar problems in the future. Any changes to control procedures shall be mutually agreed upon by MCIIm and Bell Atlantic.

#### **4.1.5.6 System and Software Changes**

4.1.5.6.1 When Bell Atlantic plans to introduce any system or software changes which impact the format or content structure of the usage data feed to MCIIm, designated Bell Atlantic personnel shall notify MCIIm no less than one hundred twenty (120) calendar days before such changes are implemented, unless a shorter time

frame is mutually agreed to by the Parties, which agreement shall not be unreasonably withheld.

4.1.5.6.2 Bell Atlantic shall communicate the projected changes to MCIIm in reasonable detail to enable MCIIm to determine potential impacts on processing.

4.1.5.6.3 MCIIm may arrange to have its usage data tested utilizing the modified system or software when the latter are ready for testing.

4.1.5.6.4 If it is necessary for Bell Atlantic to make changes in the schedule, content or format of usage data transmitted to MCIIm, Bell Atlantic shall notify MCIIm.

#### **4.1.5.7 Requested Software Changes**

Bell Atlantic will consider reasonable requests for software changes that impact the format or content structure of the usage data feed to MCIIm. The Parties shall mutually agree on the terms and conditions governing any such changes that Bell Atlantic agrees to implement.

#### **4.1.5.8 Changes to Data Exchange Controls**

Bell Atlantic will provide current data exchange controls to MCIIm promptly following the execution of this Agreement. Bell Atlantic shall notify MCIIm at least ninety (90) calendar days before such changes are implemented, unless a different time frame is mutually agreed to by the Parties and such consent shall not be unreasonably withheld.

#### **4.1.5.9 Verification Of Changes**

4.1.5.9.1 Based on the detailed description of material changes furnished by Bell Atlantic, MCIIm and Bell Atlantic personnel shall, as appropriate:

4.1.5.9.1.1 Determine the type of change(s) to be implemented.

4.1.5.9.1.2 Develop a comprehensive test plan.

4.1.5.9.1.3 Arrange for review of modified controls, if applicable.

#### 4.1.5.10 Introduction of Changes

4.1.5.10.1 When any applicable testing requirements have been met, designated MCI<sub>m</sub> and Bell Atlantic personnel shall develop an implementation plan.

### 4.2 Information Exchange and Interfaces

#### 4.2.1 Core Billing Information

4.2.1.1 Bell Atlantic shall provide MCI<sub>m</sub> with unrated industry standard EMR records associated with all intraLATA toll and local usage recorded on MCI<sub>m</sub>'s behalf. MCI<sub>m</sub> shall be given notification thirty (30) days prior to implementation of a new type and/or category of record.

4.2.1.2 Bell Atlantic shall provide to MCI<sub>m</sub> rated EMR records for alternative billed calls (*e.g.*, collect and billed to third number calls) and pursuant to Section 4.1.1.7.

4.2.1.3 **Data Delivery Schedules.** Data shall be delivered to MCI<sub>m</sub> by Bell Atlantic five (5) days per week unless otherwise negotiated, except for weeks containing MCI<sub>m</sub> and/or Bell Atlantic Data Center holidays. Bell Atlantic and MCI<sub>m</sub> shall exchange schedules of designated Data Center holidays. Bell Atlantic shall provide its transmission schedule to MCI<sub>m</sub>.

#### 4.2.2 Product/Service Specific

4.2.2.1 Bell Atlantic shall provide MCI<sub>m</sub> a 42-50-01 record to support any special features star services resold by MCI<sub>m</sub>.

#### 4.2.3 Information Transport

4.2.3.1 Bell Atlantic and MCI<sub>m</sub> shall jointly provide the transport facility for transmitting usage and billing data between Bell Atlantic locations and MCI<sub>m</sub> locations as set forth in this Section 4.2. MCI<sub>m</sub> shall be responsible for the circuit between the locations. Each Party shall be responsible for any software or hardware needed at its end of the circuit. Bell Atlantic shall transmit via NDM/Connect:Direct. In the event usage transfer cannot be accommodated by NDM because of extended (one (1) business day or longer) facility outages, Bell Atlantic shall contract for a courier service to transport the data via tape cartridge. The Party responsible for the outage shall incur the cost of transport.

4.2.3.2 Bell Atlantic shall comply with the following standards when data is transported to MCI on tape or cartridge via a courier. The data shall be in fixed or variable block format as mutually agreed by the Parties and be in the following format:

**Tape:** 9-track, 6250 (or 1600) BPI (Bytes per inch)  
**Cartridge:** 38,000 BPI  
**LRECL:** 2,472 Bytes  
**Parity:** Odd  
**Character Set:** Extended Binary Coded Decimal Interchange Code ("EBCDIC")  
**External labels:** Exchange Carrier Name, Dataset Name ("DSN") and volume serial number  
**Internal labels:** IBM Industry OS labels shall be used. They consist of a single volume label and two sets of header and trailer labels.

#### 4.2.4 Rejected Recorded Usage Data

Any messages that cannot be rated and/or billed by MCI due to an error or omission by Bell Atlantic may be returned to Bell Atlantic via NDM. Returned messages shall be sent directly to Bell Atlantic in EMR format. Standard EMR return codes shall be utilized. Bell Atlantic shall investigate such returned records and use reasonable efforts to rectify the error or omission.

4.2.4.1 Bell Atlantic must return EMR/EMI records to Bell Atlantic's billing and collections customers with the OBF standard message reject code which indicates that Bell Atlantic no longer serves the end user and which includes the OCN/local service provider ID of the new local service provider/Reseller serving the end user.

#### 4.2.5 Interfaces

4.2.5.1 MCI shall notify Bell Atlantic of resend requirements if a pack or entire dataset must be replaced due to pack rejection, damage in transit, dataset name failure, etc.

4.2.5.2 Notification of pack rejection shall be made by MCI within one (1) business day of processing. Bell Atlantic shall use reasonable efforts to correct and retransmit rejected packs within twenty-four (24) hours, or within an alternate timeframe negotiated on a case by case basis.

4.2.5.3 A pack shall contain a minimum of one message record or a maximum of 9,999 message records plus a pack header record and a pack trailer record. A file transmission contains a maximum of 99 packs. A

dataset shall contain a minimum of one pack. The providing Party shall provide the purchasing Party one dataset per Revenue Accounting Office ("RAO") sending location, with the agreed upon RAO/OCN populated in the header and trailer records.

#### 4.2.6 Formats and Characteristics

4.2.6.1 Rated in collect messages should be transmitted via the NDM and can be intermingled with the unrated messages. No special packing is needed.

4.2.6.2 **EMR.** Bell Atlantic shall provide Recorded Usage Data in the EMR format and by category, group and record types as specified herein, and shall be transmitted, via a direct feed, to MCIm. The following is a list of EMR records that MCIm can expect to receive from Bell Atlantic:

<b>Header Record</b>	20-21-01
<b>Trailer Record</b>	20-21-02
<b>Detail Records</b>	*01-01-01, 06, 07, 08, 09, 14, 16, 17, 18, 31, 32, 35, 37, 80, 81, 82, 83, 42-50-01, 10- 01-01, 06, 08, 09, 14, 17, 18, 31, 32, 35, 37
<b>Credit Records</b>	03-01-01, 06, 08, 09, 14, 17, 18, 31, 32, 35, 37, 80, 81, 82.
<b>Rated Credits</b>	41-01-01, 06, 08, 09, 14, 17, 18, 31, 32, 35, 37, 80, 81, 82.
<b>Cancel Records</b>	51-01-01, 06, 08, 09, 14, 17, 18, 31, 32, 35, 37, 80, 81, 82.
<b>Correction Records</b>	71-01-01, 06, 08, 09, 14, 17, 18, 31, 32, 35, 37, 80, 81, 82.

\*Category 01 is utilized for Rated Messages; Category 10 is utilized for Unrated Messages. Category 10 records are to have indicator 13 populated with a value of 5.

4.2.6.3 Bell Atlantic shall reasonably comply with the most current version of Bellcore standard practice guidelines for formatting EMR records, or any superseding industry standards.

4.2.6.4 The Interfacing Bell RAO, OCN, and remote identifiers shall be used by MCIm to control invoice sequencing and each shall have its own invoice controls. The OCN shall also be used to determine where the message returns file, containing any misdirected and unguidable usage, shall be sent.

4.2.6.5 The file's record format shall be variable block, unless otherwise agreed. The size and the logical record length shall be 2472 bytes.

4.2.6.6 Bell Atlantic shall not sort Recorded Usage Data for MCIIm except upon terms and conditions that may be mutually agreed by the Parties, including additional charges for such services.

4.2.6.7 Bell Atlantic shall transmit the usage data to MCIIm using dataset naming conventions reasonably prescribed by MCIIm.

#### 4.2.7 Controls

4.2.7.1 MCIIm shall test and certify the NDM interface to ensure the accurate receipt of Recorded Usage Data.

4.2.7.2 Header and trailer records shall be populated in positions 13-27 with the following information for MCIIm:

Position	
13-14	Invoice numbers (1-99)
15-16	Bell Co. ID number or zeroes
17-19	Interfacing Bell RAO Code
20-23	MCIIm OCN value 7299
24-27	0000

The trailer grand total record count shall be populated with total records in pack (excluding header & trailer).

4.2.7.3 **Control Reports.** MCIIm shall accept input data provided by Bell Atlantic in EMR format in accordance with the requirements and specifications detailed in Section 4. In order to ensure the overall integrity of the usage being transmitted from Bell Atlantic to MCIIm, data transfer control reports shall be provided by MCIIm. These reports shall be provided by MCIIm to Bell Atlantic on a daily or otherwise negotiated basis and reflect the results of the processing for each pack transmitted by Bell Atlantic.

4.2.7.4 **Control Reports - Distribution.** Since Bell Atlantic is receiving control reports, dataset names shall be established as mutually agreed.

4.2.7.5 **Message Validation Reports.** MCIIm shall provide once per day (or as otherwise negotiated) message validation reports to the designated Bell Atlantic system control coordinator. These reports shall be provided for all data received within Bell Atlantic Local Resale and Local

Switching feed and shall be transmitted concurrent with the daily usage file schedule.

**4.2.7.6 Incollect Pack Processing.** MCIIm shall provide to Bell Atlantic a standard EMR report showing vital statistics and control totals for packs rejected and accepted and dropped messages. MCIIm will provide this in the following report formats and control levels:

Company Name

Reseller Total Messages processed in a pack

Packs processed shall reflect the number of messages initially erred and accepted within a pack

Reseller Total Packs processed

### 4.3 Miscellaneous

4.3.1 When requested by MCIIm for law enforcement purposes, Bell Atlantic shall provide MCIIm with Recorded Usage Data as soon as practicable following such request. If not available in EMR format, the Recorded Usage Data may be provided in AMA format.

4.3.2 Bell Atlantic shall include the working telephone number of the originating dial tone line on each EMR call record provided to MCIIm.

4.3.3 End user subscriber usage records and station level detail records shall be in packs in accordance with EMR standards.

4.3.4 Bell Atlantic shall use its best commercially reasonable efforts to provide MCIIm with Recorded Usage Data to be provided hereunder not more than three (3) business days after termination of the call for which usage data is to be provided.

## Section 5. Maintenance

### 5.1 General Requirements

5.1.1 The Parties shall provide repair, maintenance, testing, and surveillance for all Local Resale services, interconnection, and Network Elements in accordance with the terms and conditions of this Section 5 of Attachment VIII.

5.1.2 The Parties shall cooperate with each other to meet maintenance standards for all Local Resale services, interconnection, and Network Elements ordered under this Agreement, as specified in this Section 5 of Attachment VIII. Such maintenance standards shall include, without limitation, standards for testing.

network management, call gapping, and notification of standards upgrades as they become available.

5.1.3 Bell Atlantic shall provide repair service that is at Parity in quality to that provided to Bell Atlantic subscribers; trouble calls from MCI shall receive response time priority that is at Parity to that of Bell Atlantic subscribers. MCI shall provide repair service that is at Parity in quality to that provided to MCI subscribers; trouble calls from Bell Atlantic shall receive response time priority that is at Parity to that of MCI subscribers.

5.1.4 The Parties shall provide scheduled and non-scheduled maintenance at Parity, including, without limitation, required and recommended maintenance intervals and procedures, for all Local Services, interconnection, and Network Elements under this Agreement that it currently provides for the maintenance of its own network. Each Party will provide reasonable notice of such maintenance if it is known to or is reasonably foreseeable to materially affect the other Party's subscribers.

5.1.4.1 Plans for scheduled maintenance shall include, at a minimum, the following information: description of work to be completed and date and time work is scheduled to be completed.

5.1.5 The Parties shall advise each other of all non-scheduled maintenance, testing, monitoring, and surveillance activity to be performed on any Network Element, including, without limitation, any hardware, equipment, software, or system, providing service functionality which is known or is reasonably foreseeable to materially affect the other Party's subscribers.

5.1.6 The Parties shall provide each other with a summary description of any and all network emergency restoration plans and network disaster recovery plans, however denominated, which are in place during the term of this Agreement. Such plans, if warranted by the nature thereof, shall include the following: (i) provision for notification to the other Party of the existence, location, and source of any emergency network outage reportable to the FCC that materially affects subscribers of the other Party, via fax to a single number designated by the other Party; (ii) establishment of a single point of contact responsible for initiating and coordinating the restoration of all Local Resale services, interconnection, or Network Elements; (iii) provision of status of restoration efforts and problem resolution during the restoration process, via fax to a single number designated by the other Party; (iv) reasonably equivalent priority, as between MCI subscribers and Bell Atlantic subscribers, for restoration efforts, consistent with FCC service restoration guidelines, including, without limitation, deployment of repair personnel, and use of spare parts and components on the Party's own network; and (v) a mutually-agreeable process for escalation of maintenance problems, including a complete, up-to-date list of responsible contacts, each available

twenty-four (24) hours per day, seven (7) days per week. Said plans shall be modified and updated as needed.

5.1.6.1 As identified, the Parties shall provide timely notification to each other of network outages at Parity with the notification provided to their own repair centers. Such outages may include, but are not limited to:

- 5.1.6.1.1 Central Office outages:
- 5.1.6.1.2 Facility outages such as cable cuts and repeater failures:
- 5.1.6.1.3 Commercial power outages:
- 5.1.6.1.4 Load sharing situations:
- 5.1.6.1.5 Subscriber loop outages:
- 5.1.6.1.6 Signaling network congestion; and
- 5.1.6.1.7 General network congestion.

5.1.7 Bell Atlantic and MCIIm will make reasonable efforts to minimize the number of calls misdirected to the other Party's repair bureau. Bell Atlantic and MCIIm shall establish mutually acceptable methods and procedures for the referral from Bell Atlantic to MCIIm, and vice versa, of any and all misdirected calls from subscribers requesting repair.

5.1.7.1 MCIIm and Bell Atlantic each agree to provide their own subscribers with a toll free or ordinary number to call for repair service. Bell Atlantic will accomplish this, and will assist MCIIm to accomplish this, in three stages:

(1) From the execution hereof until March 31, 1997, calls to 611 shall be answered by a voice response unit or live operator. Such unit or operator will provide a referral telephone number (provided by MCIIm) to those MCIIm customers who call this number. Such referrals shall be provided on a Non-Discriminatory basis.

(2) By April 1, 1997, calls to 611 will be answered solely by an automated announcement. This announcement will inform Bell Atlantic subscribers to call a toll free number and will inform all other subscribers to call their respective carriers. The automated announcement will not provide referral numbers. However, the Bell Atlantic toll free referral number will be answered by a voice response unit or live operator who will provide maintenance referral numbers to non-Bell Atlantic subscribers.

(3) Commencing no later than December 31, 1997, the 611 repair number will be deactivated and callers will be informed by a recorded message that it is no longer a working number, and that

they should contact their carrier directly. At all times, and on a Non-Discriminatory basis, Bell Atlantic operators will refer callers to the repair number of their respective carriers.

5.1.8 Each Party's repair bureau shall perform the following functions in conformance with performance and service quality standards at Parity with those provided to itself when providing repair and maintenance to the other Party and the other Party's subscribers under this Agreement:

5.1.8.1 Either Party may request repairs to the other Party's network by calling the other Party's repair bureau.

5.1.8.2 Each Party shall make reasonable efforts to ensure that its repair bureau, including the electronic interface described in Section 5.2 herein, is on-line and operational twenty-four (24) hours per day, seven (7) days per week. MCI and Bell Atlantic will develop mutually agreed-upon manual processes for repair reporting in the event of unavailability or failure of the electronic interface.

5.1.8.3 Each Party's repair bureau shall provide to the other Party an "arrive by time" or "estimated time to arrive" on reported Telephone Exchange Service or Exchange Access Service trouble.

5.1.8.4 Each Party shall notify the other Party, via status screen or verbal communication, when the "arrive by time" or "estimated time to arrive" has been significantly changed or impacted by other events.

5.1.8.5 Each Party shall provide the status of repair efforts to the other Party upon reasonable request.

5.1.8.5.1 Bell Atlantic shall inform MCI of repair completion and the reason for trouble, if identified, as soon as practicable after restoration of Network Elements and any other trouble reports by MCI. Notification should be provided via electronic interface, when available.

5.1.8.5.2 When trouble is reported by a subscriber served through Network Elements, MCI will test its network (including basic unbundled loops) to identify any problems. If no problems are identified with the MCI network and/or no trouble is found in Bell Atlantic's service, MCI will open a trouble report with Bell Atlantic. Bell Atlantic shall then test its portion of the network and perform repairs, as appropriate, based on appointment availability. Each Party shall share test results and otherwise cooperate in order to resolve the trouble.

5.1.8.6 The Parties shall establish escalation procedures for trouble tickets and maintenance requests that are not resolved in a timely manner. The escalation procedures to be provided under this Agreement shall include names and telephone numbers of each Party's management personnel who are responsible for maintenance issues.

5.1.8.7 Neither Party shall perform maintenance services involving additional charges for Local Resale services, interconnection or Network Elements without advance authorization from the other Party, excluding charges for maintenance services as set forth in Attachment I, which will be billed to the Party requesting the maintenance services.

5.1.8.8 Bell Atlantic shall dispatch its technicians to MCIIm subscriber premises at Parity in response to reports submitted by MCIIm via an electronic interface established pursuant to Section 5.2 herein. The electronic interface shall have the capability of allowing MCIIm to receive trouble report information, access Bell Atlantic's status field and designated narratives which will contain the original test results, if applicable, and receive all applicable close out information including time of repair, work done and any charges associated with the trouble report.

5.1.8.9 Each Party shall furnish the other Party with single points of contact ("SPOC") for all communications relating to trouble tickets and maintenance requests.

5.1.8.10 Bell Atlantic agrees that MCIIm may call Bell Atlantic to verify Central Office features and functions as they relate to an open trouble report. Bell Atlantic agrees to work with MCIIm on the initial trouble report to isolate the cause of the trouble and, where possible, resolve the feature/function related trouble at that time.

5.1.9 The Parties shall exchange unique numbers to identify each initial report opened.

## 5.2 Systems Interfaces

5.2.1 Bell Atlantic will provide electronic interfaces (ECG and OSI) that meet OSI T-1 M-1 standards (ANSI T1-227, 1995 and ANSI T1-228 1995 as may be amended), as gateways to allow MCIIm maintenance personnel and customer service representatives to perform the following functions for Local Services resold to MCIIm subscribers: the ability to transmit a new trouble ticket for an MCIIm subscriber; for all OSI electronically bonded reports, the ability to receive notification of status changes as they occur including notification of dispatch, providing MCIIm the ability to track current status on all open MCIIm subscriber trouble tickets; the ability to request an escalation and receive escalation

responses of said request: the ability to receive dispatch "arrive by time" appointment (POTS only) when the trouble is established and automatic notification of appointment changes; the ability to update trouble information; and the ability to receive all applicable time and material charges at the time of ticket closure (total by subscriber, per event) along with clearance time and description of work done. The Parties will negotiate reciprocal interfaces and procedures for maintenance of Interconnection and Network Elements. Prior to availability of electronic interfaces, Bell Atlantic shall respond to MCI's telephonic inquiries.

### 5.3 Standards

5.3.1 The following shall apply to premises visits by Bell Atlantic's employees and contractors:

5.3.1.1 Bell Atlantic employees or contractors shall provide to MCI subscribers a written notice of charges for work completed, if any, or notice that additional work (on access to the premises) will be necessary.

5.3.1.2 If work is not completed because of access problems, Bell Atlantic employees or contractors shall call MCI to advise it of the need for access. The report will be held for a reasonable period as "no-accessed" in Bell Atlantic's system and will be redated once new access is established with respect to the subscriber premises so that MCI can schedule a new appointment with Bell Atlantic and subscriber at the same time.

5.3.1.3 Bell Atlantic's employees or contractors shall use reasonable efforts to obtain the subscriber's signature on appropriate forms confirming any chargeable event.

## *Section 6. Miscellaneous Services & Functions*

### 6.1 General Requirements

#### 6.1.1 Basic 911 and E911 General Requirements

Basic 911 and E911 provides a caller access to the appropriate emergency service bureau by dialing a 3-digit universal telephone number (911). Basic 911 and E911 shall be provided to MCI in accordance with Sections 6.1.1 and 6.1.2 below. Notwithstanding the indemnification provisions set forth in Part A of this Agreement, Bell Atlantic's liability for indemnification resulting from third-party claims in connection with the provision of such 911 and E911 Services shall be subject to the liability limitations contained in Bell Atlantic's applicable 911 Tariffs.

6.1.1.1 E911 shall provide additional routing flexibility for 911 calls. E911 shall use subscriber data, contained in the 911 database system, to determine to which PSAP to route the call.

6.1.1.2 If available, Bell Atlantic shall offer a third type of 911 Service, 911 using SS7 (S911). All requirements for E911 as set forth herein shall also apply to S911 with the exception of the type of signaling used on the interconnection trunks from the local Switch to the S911 tandem.

6.1.1.3 Basic 911 and E911 functions provided to MCIIm shall be at least at the same level Bell Atlantic provides to its subscribers for such functionality.

6.1.1.4 Basic 911 and E911 access shall be provided to MCIIm in accordance with the following:

6.1.1.4.1 Bell Atlantic and MCIIm shall conform to all state regulations concerning emergency services.

6.1.1.4.2 For E911, Bell Atlantic shall use its current process, as the same may be modified from time to time, to update and maintain subscriber information in the ALI/DMS data base.

6.1.1.5 If a jurisdiction has planned for overflow, then Bell Atlantic shall provide for such overflow 911 traffic to be routed to Bell Atlantic Operator Services or, at MCIIm's discretion, directly to MCIIm Operator Services.

6.1.1.6 Basic 911 and E911 access from the MCIIm local Switch shall be provided to MCIIm in accordance with the following:

6.1.1.6.1 When ordered by MCIIm from Bell Atlantic, Bell Atlantic shall interconnect direct trunks from the MCIIm network to the 911 PSAP, or the E911 tandems as designated by MCIIm. Such trunks may alternatively be provided by MCIIm.

6.1.1.6.2 In jurisdictions where Bell Atlantic has obligations under existing agreements as the primary provider of the 911 Service to a government agency, MCIIm shall participate in the provision of the 911 Service as follows:

6.1.1.6.2.1 Each Party shall be responsible for those portions of the 911 Service for which it has control, including any necessary maintenance to each Party's portion of the 911 Service.

6.1.1.6.2.2 Bell Atlantic shall be responsible for maintaining the E911 database.

6.1.1.6.3 If a third party is the primary service provider to a government agency, MCIIm shall negotiate separately with such third party with regard to the provision of 911 Service to the agency. All relations between such third party and MCIIm are independent of this Agreement and Bell Atlantic makes no representations on behalf of the third party.

6.1.1.7 If available, Bell Atlantic shall provide to MCIIm, upon request, the emergency public agency (e.g., police, fire, rescue, poison, and bomb) telephone numbers linked to all NPA NXXs for the states in which MCIIm provides service.

6.1.1.8 If available to Bell Atlantic and for those jurisdictions previously requested by MCIIm, Bell Atlantic shall transmit to MCIIm as soon as practicable all changes, alterations, modifications, and updates to the emergency public agency telephone numbers linked to all NPA NXXs. This transmission shall be electronic and be a separate feed from the subscriber listing feed.

6.1.1.9 The following are E911 database requirements:

6.1.1.9.1 If Bell Atlantic possesses an MSAG and is not prohibited from providing it to MCIIm, it shall provide copies of the MSAG within three (3) business days from the time requested. Copies shall be provided on diskette, magnetic tape, or in a format suitable for use with desktop computers. Updates to the MSAG thereafter will be provided on a monthly basis.

6.1.1.9.2 MCIIm shall be solely responsible for providing MCIIm database records to Bell Atlantic for inclusion in Bell Atlantic's ALI database on a timely basis.

6.1.1.9.3 Bell Atlantic and MCIIm shall arrange for the automated input and periodic updating on a mediated access basis of the E911 database information related to MCIIm end users to replace the manual data entry process currently used. Bell Atlantic shall work cooperatively with MCIIm to ensure the accuracy of the data transfer by verifying it against the MSAG provided that MCIIm shall be responsible for the accuracy of information it provides Bell Atlantic. The relevant governmental jurisdiction is responsible for accuracy of the MSAG, and Bell Atlantic shall have no responsibility for accuracy of the MSAG. As soon as Technically Feasible, Bell Atlantic shall accept electronically

transmitted files or magnetic tape that conform to National Emergency Number Association ("NENA") Version #2 format for MCIIm subscribers.

6.1.1.9.3.1 MCIIm shall provide information on new subscribers to Bell Atlantic as part of the ordering process. Bell Atlantic shall update its database within two (2) business days of receiving the information from MCIIm. If Bell Atlantic detects an error in the MCIIm provided data, the data shall be returned to MCIIm within one (1) business day after the error was detected by Bell Atlantic. MCIIm shall respond to requests from Bell Atlantic to make corrections to database record errors by uploading corrected records within two (2) business days. Manual entry of the data by Bell Atlantic shall be allowed until an interface between the Parties is developed and deployed, and thereafter in the event such interface is not functioning properly. In the event of an E911 database failure, MCIIm subscriber E911 information review and entry shall be at Parity.

6.1.1.9.4 MCIIm shall assign an E911 database coordinator charged with the responsibility of forwarding MCIIm end user ALI record information to Bell Atlantic or via a third-party entity charged with the responsibility of ALI record transfer. MCIIm assumes all responsibility for the accuracy of the data that MCIIm provides to Bell Atlantic.

6.1.1.9.5 Bell Atlantic agrees to treat all data on MCIIm subscribers provided under this Agreement as Confidential Information in accordance with the terms of Section 22 of Part A and to use data on MCIIm subscribers only as provided under this Agreement.

6.1.1.9.6 Upon completion of NENA Telco Identification Code standards, Bell Atlantic shall use a Carrier Code (a NENA standard five-character field) on all ALI records received from MCIIm. The Carrier Code shall identify the carrier of record in INP configurations. Prior to completion of the NENA standards, Bell Atlantic shall use the ACNA code obtained from Bellcore's carrier identification code assignments.

6.1.1.9.7 Bell Atlantic shall identify which ALI databases cover which states, counties or parts thereof, and identify and communicate a point of contact for each.

6.1.1.10 The following are basic 911 and E911 network requirements:

6.1.1.10.1 Bell Atlantic shall provide the number of trunks as may be ordered by MCI. These trunks shall be dedicated to routing 911 calls from MCI's Switch to a Bell Atlantic selective router.

6.1.1.10.2 Where available, Bell Atlantic shall provide the Selective Routing of E911 calls received from MCI's switching office. This consists of the ability to receive the ANI of MCI's subscriber, selectively route the call to the appropriate PSAP, and forward the subscriber's ANI to the PSAP. Bell Atlantic shall provide MCI with the appropriate common language location identifier ("CLLI") codes and specifications regarding the tandem serving area associated addresses and meet-points in the network.

6.1.1.10.3 Bell Atlantic will supply, upon MCI's request, the written exchange of pertinent data, at the Rate Center level, for the routing of basic 911 and E911 calls to the proper public safety agency.

6.1.1.10.4 MCI shall ensure that its Switches provide ANIs and the line number of the calling station that are compatible with Bell Atlantic's network.

6.1.1.10.5 Each ALI discrepancy report shall be jointly researched by Bell Atlantic and MCI. Corrective action shall be taken promptly by the responsible Party.

6.1.1.10.6 Subject to mutual agreement, Bell Atlantic shall provide MCI with written technical specifications for network interfaces, and technical specifications for database loading and maintenance pursuant to NENA Standards. Bell Atlantic shall also cooperate with MCI on reasonable requests for Rate Center information.

6.1.1.10.7 Bell Atlantic shall identify special routing arrangements to complete 911 calls.

6.1.1.10.8 Bell Atlantic shall begin restoration of E911 and/or E911 trunking facilities promptly upon notification of failure or outage. Bell Atlantic shall provide priority restoration of trunks or network outages on the same terms/conditions it provides itself.

6.1.1.10.9 Bell Atlantic shall identify any special operator-assisted calling requirements to support 911.

6.1.1.10.10 Trunking shall be arranged in compliance with local emergency service requirements to minimize the likelihood of Central Office isolation due to cable cuts or other equipment failures. If there is an alternate means of transmitting a 911 call to a PSAP, in the event of an emergency, it will be available at Parity.

6.1.1.10.11 Equipment and circuits used for 911 shall be monitored at all times. Monitoring of circuits shall be done to the individual circuit level. Monitoring shall be conducted by Bell Atlantic for trunks between the tandem and all associated PSAPs.

6.1.1.10.12 Repair service shall begin promptly upon receipt of a report of a malfunction, the priority of which shall depend upon whether such malfunction impairs provision of 911 and E911 Services. Repair service includes testing and diagnostic service from a remote location, dispatch of or in-person visit(s) of personnel. Technicians shall be dispatched without unreasonable delay.

6.1.1.10.13 All 911 trunks must be capable of transmitting and receiving Baudot codes necessary to support the use of telecommunications devices for the deaf (TTY/TDDs).

#### **6.1.2 Basic 911 and E911 Additional Requirements**

6.1.2.1 All MCIIm lines that have been ported via INP shall reach the correct PSAP when 911 is dialed. Bell Atlantic shall send both the ported number and the MCIIm number (if both are received from MCIIm) to the PSAP upon an ALI request from the PSAP. The PSAP attendant shall see both numbers where the PSAP is using a standard ALI display screen and the PSAP extracts both numbers from the data that is sent. The MCIIm subscriber's directory number may be shown on the "remarks" line of the ALI record.

6.1.2.2 Bell Atlantic shall work with the appropriate government agency to provide MCIIm the ten-digit POTS number of each PSAP which subtends each Bell Atlantic selective router, 911 tandem to which MCIIm is interconnected.

6.1.2.3 Bell Atlantic shall use reasonable efforts to notify MCIIm forty-eight (48) hours in advance of any scheduled testing or maintenance affecting MCIIm 911 Service, and provide notification as soon as possible of any unscheduled outage affecting MCIIm 911 Service.

6.1.2.4 MCI shall be responsible for reporting all errors, defects and malfunctions to Bell Atlantic. Bell Atlantic shall provide MCI with the point of contact for reporting errors, defects, and malfunctions in the service and shall also provide escalation contacts.

6.1.2.5 Bell Atlantic shall provide reasonable notification of any pending tandem moves, NPA splits, or scheduled maintenance outages affecting MCI 911 Service.

6.1.2.6 Bell Atlantic shall establish a process for handling "reverse ALI" inquiries by public safety entities.

6.1.2.7 Bell Atlantic shall establish a process for the management of NPA splits by populating the ALI database with the appropriate new NPA codes.

6.1.2.8 Bell Atlantic shall provide the ability for MCI to update 911 database with end user information for lines that have been ported via INP or NP.

### 6.1.3 Directory Assistance Service

6.1.3.1 Bell Atlantic shall provide for the routing of Directory Assistance calls (including but not limited to 411, 555-1212, NPA-555-1212) dialed by MCI subscribers directly to either the MCI Directory Assistance service platform or Bell Atlantic Directory Assistance service platform as specified by MCI.

6.1.3.2 MCI subscribers shall be provided the capability by Bell Atlantic to dial the same telephone numbers for access to MCI Directory Assistance that Bell Atlantic subscribers are provided to access Bell Atlantic Directory Assistance.

6.1.3.3 If MCI purchases from Bell Atlantic MCI-branded Directory Assistance service selectively routed to Bell Atlantic's Directory Assistance platform, MCI shall give Bell Atlantic six (6) months notice before terminating that arrangement by selectively rerouting Directory Assistance traffic to another Directory Assistance platform.

6.1.3.3.1 Bell Atlantic agrees to provide MCI subscribers with Directory Assistance service at Parity.

6.1.3.3.2 Bell Atlantic shall notify MCI in advance of any changes or enhancements to its Directory Assistance service, and

shall make available such service enhancements at Parity and on a Non-Discriminatory basis with respect to other CLECs.

6.1.3.3.3 Bell Atlantic shall provide Directory Assistance to MCIIm subscribers in accordance with Bell Atlantic's internal methods, procedures and standards, which shall, at a minimum, comply with applicable state regulations. Upon MCIIm's request, Bell Atlantic shall provide to MCIIm its methods and procedures for providing Directory Assistance service.

6.1.3.3.4 Bell Atlantic shall provide MCIIm with provisioning of Directory Assistance at Parity.

6.1.3.3.5 Service levels shall comply, at a minimum, with applicable state regulatory requirements, including those for number of rings to answer and disaster recovery options.

**6.1.3.3.6 Specialized Routing**

6.1.3.3.6.1 Commencing after April 1, 1997, and in conformance with the provisions of Attachment III, Section 7.2.2, Bell Atlantic shall make available to MCIIm branded Directory Assistance for Directory Assistance traffic originating at any Bell Atlantic Switches where Bell Atlantic has already implemented the rerouting of Directory Assistance traffic pursuant to a request from a carrier.

6.1.3.3.6.2 Where Bell Atlantic is not offering this service in response to a request from a carrier, MCIIm may request that a Switch offer such rerouting capability and, in conformance with the provisions of Attachment III, Section 7.2.2, Bell Atlantic shall begin implementation of such request within ninety (90) days, and complete implementation within ninety (90) days thereafter. Bell Atlantic shall fulfill such requests on a Non-Discriminatory Basis.

6.1.3.3.6.3 Bell Atlantic shall provide front end branding as reasonably specified by MCIIm. MCIIm has the option of providing its own branded recordings and related materials for branding.

6.1.3.3.7 Bell Atlantic shall provide the following minimum Directory Assistance capabilities to MCIIm's subscribers:

6.1.3.3.7.1 Bell Atlantic shall provide to MCIIm subscribers seeking Directory Assistance the same number of responses and detail of information that it provides its own subscribers.

6.1.3.3.7.2 Upon request by subscriber, call completion to the requested number for local and intraLATA toll calls shall be returned to the MCIIm network. Rating and billing shall be done by MCIIm.

6.1.3.3.7.2.1 Upon MCIIm's request and if Technically Feasible, Bell Atlantic shall provide blocking of Directory Assistance call completion on an ANI specific basis.

6.1.3.3.7.3 Bell Atlantic shall populate MCIIm listings in the Directory Assistance database in the same manner and in the same time frame as it does for Bell Atlantic subscribers.

6.1.3.3.7.4 Any information provided by a Directory Assistance automatic response unit shall be repeated the same number of times for MCIIm subscribers as for Bell Atlantic subscribers.

6.1.3.3.7.5 Bell Atlantic shall instruct MCIIm subscribers to call a toll free number for MCIIm customer service to request a credit. Bell Atlantic shall provide one toll free number for business subscribers and another for residential subscribers.

#### 6.1.4 Operator Services

6.1.4.1 Bell Atlantic shall provide for the routing of 0+ local, 0- and operator transfers for local Operator Services calls dialed by MCIIm subscribers directly to either the MCIIm Operator Service platform or Bell Atlantic Operator Service platform as specified by MCIIm and pursuant to Attachment III, Section 7.2.2.

6.1.4.2 MCIIm subscribers shall be provided the capability by Bell Atlantic to dial the same telephone numbers to access MCIIm operator service that Bell Atlantic subscribers dial to access Bell Atlantic Operator Service.

6.1.4.3 If MCIIm purchases from Bell Atlantic MCIIm-branded Operator Services selectively routed to Bell Atlantic's Operator Services platform, MCIIm shall give Bell Atlantic six (6) months notice before terminating that arrangement by selectively rerouting Operator Services traffic to another Operator Services platform.

6.1.4.3.1 Bell Atlantic agrees to provide MCIIm subscribers Operator Services and service enhancements at Parity and on a Non-Discriminatory basis.

**6.1.4.3.2 Specialized Routing**

6.1.4.3.2.1 Commencing after April 1, 1997, and in conformance with the provisions of Attachment III, Section 7.2.2, Bell Atlantic shall make available to MCIIm branded Operator Services for Operator Services traffic originating at any Bell Atlantic Switches where Bell Atlantic has already implemented the rerouting of Operator Services traffic pursuant to a request from a carrier.

6.1.4.3.2.2 Where Bell Atlantic is not offering this service in response to a request from a carrier, MCIIm may request that a Switch(es) offer such rerouting capability and, in conformance with the provisions of Attachment III, Section 7.2.2, Bell Atlantic shall begin implementation of such request within ninety (90) days, and complete implementation within ninety (90) days thereafter. Bell Atlantic shall fulfill such requests from carriers requesting it on a Non-Discriminatory Basis.

6.1.4.3.2.2.1 Bell Atlantic shall provide front end branding as reasonably specified by MCIIm. MCIIm has the option of providing its own branded recordings and related materials for branding.

6.1.4.3.3 Bell Atlantic shall provide the following minimum Operator Service capabilities to MCIIm subscribers at Parity.

6.1.4.3.3.1 Completion of 0+ and 0- dialed local calls:

6.1.4.3.3.2 Completion of 0- intraLATA toll calls:

6.1.4.3.3.3 Completion of calls that are billed to a calling card, with the exception of calls billed to proprietary cards.

and MCI shall designate to Bell Atlantic the acceptable types of special billing:

6.1.4.3.3.4 Completion of person-to-person calls:

6.1.4.3.3.5 Completion of collect calls:

6.1.4.3.3.6 The capability for callers to bill to a third party and complete such calls:

6.1.4.3.3.7 Completion of station-to-station calls:

6.1.4.3.3.8 The processing of emergency calls:

6.1.4.3.3.9 The processing of Line Status Verification and Verification and Call Interrupt requests:

6.1.4.3.3.10 The processing of operator-assisted Directory Assistance calls:

6.1.4.3.3.11 Provision of rate quotes:

6.1.4.3.3.12 The processing of time-and-charges requests; and

6.1.4.3.3.13 The routing of 0- traffic directly to a "live" operator team.

6.1.4.3.3.14 When requested by MCI and commencing on availability, Bell Atlantic shall provide when Technically Feasible, credit on Operator Services calls as provided to Bell Atlantic subscribers or shall instruct MCI subscribers to call a toll free number for MCI customer service to request a credit. Bell Atlantic shall provide one toll free number for business subscribers and another for residential subscribers.

6.1.4.3.3.15 Caller assistance for the disabled; and

6.1.4.3.3.16 Provision of operator-assisted conference calling, when Technically Feasible.

6.1.4.4 Operator Service shall provide to the extent Technically Feasible MCI's local service rates when providing rate quote and time-and-

charges services when branding MCIIm services pursuant to Section 6.1.4.3.2.

6.1.4.5 Bell Atlantic shall exercise at least the same level of fraud control in providing Operator Service to MCIIm that Bell Atlantic provides for its own Operator Service.

6.1.4.6 Bell Atlantic shall perform billed number screening when handling collect, third party, and calling card calls, both for station-to-station and person-to-person call types.

6.1.4.7 Bell Atlantic shall refer subscriber account and other similar inquiries to the subscriber service centers reasonably designated in advance by MCIIm from time to time.

#### **6.1.4.8 Line Status Verification and Call Interrupt (LSV/CI)**

6.1.4.8.1 Bell Atlantic shall permit MCIIm to connect its local Operator Service to Bell Atlantic's LSV/CI systems to enable MCIIm to perform BLV/BLI services.

6.1.4.8.2 Bell Atlantic shall engineer its LSV/CI facilities to accommodate the anticipated volume of BLV/BLI requests during the busy hour. MCIIm may, from time to time, provide its anticipated volume of BLV/BLI requests to Bell Atlantic. In those instances when the LSV/CI systems become unavailable, Bell Atlantic shall inform MCIIm as soon as practicable.

6.1.4.9 Where INP is deployed and when a BLV/BLI request for a ported number is directed to a Bell Atlantic operator and the query is not successful (i.e., the request yields an abnormal result), the operator shall if Technically Feasible confirm whether the number has been ported and shall direct the request to the appropriate operator.

6.1.4.10 Bell Atlantic shall allow MCIIm to order provisioning of telephone line number (TLN) calling cards and billed number screening (BNS), in its LIDB, for ported numbers, as agreed by the Parties. Bell Atlantic shall continue to allow MCIIm reasonable access to its LIDB for this purpose.

#### **6.1.5 Directory Assistance and Listings Service Requests**

6.1.5.1 These requirements pertain to Bell Atlantic's Directory Assistance and listings service request process that enables MCIIm to (a) submit MCIIm subscriber information for inclusion in Bell Atlantic Directory

Assistance and Directory Listings databases: (b) submit MCIIm subscriber information for inclusion in published directories: and (c) provide MCIIm subscriber delivery address information to enable Bell Atlantic to fulfill directory distribution obligations.

6.1.5.1.1 Bell Atlantic shall accept orders on a real-time basis via electronic interface in accordance with OBF Directory Service request standards as soon as practicable.

6.1.5.1.2 Bell Atlantic shall migrate Directory Listing in accordance with OBF industry standards when developed.

6.1.5.1.3 Bell Atlantic shall enable MCIIm to electronically transmit multi-line listing orders.

6.1.5.1.4 Bell Atlantic shall provide MCIIm with a daily summary of completed Directory Service requests in accordance with OBF industry standards when developed.

6.1.5.1.5 To facilitate accurate order processing, Bell Atlantic shall provide to MCIIm the following information to the same extent and in the same manner and frequency as provided to Bell Atlantic customer service centers:

6.1.5.1.5.1 A matrix of NXX to Central Office:

6.1.5.1.5.2 Yellow pages heading codes:

6.1.5.1.5.3 Directory names and codes, and identification of which telephone directories are provided to which subscribers by subscriber address, NPA/NXX, or other criteria:

6.1.5.1.5.4 Listing format rules:

6.1.5.1.5.5 Listing alphabetizing rules:

6.1.5.1.5.6 Standard abbreviations acceptable for use in listings and addresses:

6.1.5.1.5.7 Titles and designations: and

6.1.5.1.5.8 A list of all available directories and their close dates.

6.1.5.1.6 Based on changes submitted by MCI as required by Bell Atlantic, Bell Atlantic shall update and maintain Directory Assistance and Directory Listings data for MCI subscribers who:

6.1.5.1.6.1 Disconnect Service:

6.1.5.1.6.2 Change carrier:

6.1.5.1.6.3 Install Service:

6.1.5.1.6.4 Change any service which affects DA information:

6.1.5.1.6.5 Specify Non-Solicitation: or

6.1.5.1.6.6 Are Non-Published, Non-Listed, or Listed.

#### **6.1.6 Directory Listings General Requirements**

6.1.6.1 This Section 6.1.6 pertains to listings published by Bell Atlantic in white/yellow pages, specialty directories or other printed or electronic formats containing such information. The provisions of this Section 6.1.6 shall apply to Bell Atlantic, and Bell Atlantic shall be responsible for compliance therewith, notwithstanding any arrangement between Bell Atlantic and another party (including an Affiliate of Bell Atlantic) whereby the other Party publishes or produces directories and associated products on Bell Atlantic's behalf.

6.1.6.2 Bell Atlantic shall include in its master subscriber system database list information for MCI subscribers as agreed by the Parties.

6.1.6.3 Upon receipt of written instructions from MCI with respect to all MCI subscriber listings, or from an MCI subscriber with respect to that subscriber's listing, Bell Atlantic shall not sell or license, nor allow any third party, the use of MCI subscriber listings. In the absence of such instructions, Bell Atlantic may sell or license such listings in the same manner as it does listings of Bell Atlantic subscribers. All revenues associated with the sale or license by Bell Atlantic of MCI subscriber listings shall be retained by Bell Atlantic. Bell Atlantic shall not disclose nor allow any third party to disclose non-listed name or address information for any purpose other than what may be necessary to complete directory distribution.

6.1.6.4 MCIIm subscriber listings, including State, Local, and Federal government listing, shall be interfiled with listings of Bell Atlantic and other CLEC subscribers.

6.1.6.5 Each MCIIm subscriber account number shall be provided the same white page basic listings that Bell Atlantic provides its subscribers.

6.1.6.6 Each MCIIm business subscriber account shall be provided the same yellow page basic listings that Bell Atlantic provides its subscribers.

6.1.6.7 Primary listings for all MCIIm subscribers shall be at Parity. Bell Atlantic shall make commercially reasonable efforts to develop a methodology to include MCIIm subscribers' listings in multiple directories covering the same geographic area at Parity.

6.1.6.8 As agreed by the Parties, MCIIm sales, service, billing, and repair information for business and residential subscribers, along with MCIIm logo, shall be included in the customer guide pages. The information required by this section shall be included in a form and font size substantially similar to that attached as Exhibit A of its Attachment VIII and shall be in the same section of the telephone directory in which Bell Atlantic lists its own similar information. All CLEC listings shall be placed alphabetically based on the name under which CLEC ordinarily conducts business. There shall be no charge for the basic listing contemplated by this section. However, Bell Atlantic may impose a Non-Discriminatory charge for additional enhancements or changes to this information, or for other information that Bell Atlantic may agree to include.

6.1.6.9 Bell Atlantic and MCIIm agree to mutually develop a process whereby MCIIm can review and correct subscriber Directory Listings.

6.1.6.10 Charges for additional and foreign white page listings ordered by MCIIm should be billed to MCIIm and itemized at the subscriber billing telephone number level.

6.1.6.11 Bell Atlantic shall distribute appropriate primary alphabetical and classified directories (white and yellow pages) to MCIIm subscribers at Parity: 1) upon establishment of new service; 2) during annual mass distribution; and 3) upon subscriber request. Bell Atlantic shall provide MCIIm its policy on the number of telephone directories provided at no charge to the customer.

6.1.6.12 Bell Atlantic shall permit, or ensure a third party permits, MCIIm subscribers to place orders for foreign directories on the same terms and

conditions such directories are made available to Bell Atlantic subscribers. Bell Atlantic shall provide to MCIIm the procedures, terms, and conditions for obtaining foreign telephone directories from Bell Atlantic.

6.1.6.13 Upon request, and at no charge, Bell Atlantic shall provide, or ensure a third party provides, reasonable quantities of directories for MCIIm's internal use to cover areas in which MCIIm is an authorized CLEC.

6.1.6.14 The directory cover shall state that it includes listings for all local telephone companies.

6.1.6.15 Bell Atlantic shall make available current recycling services to MCIIm subscribers under the same terms and conditions that Bell Atlantic makes such services available to its own subscribers.

#### **6.1.7 Directory Assistance Data**

6.1.7.1 To the extent required under Applicable Law, Bell Atlantic will provide MCIIm with "Direct Access" service to the same Directory Assistance ("DA") Database that is used by Bell Atlantic to provide Directory Assistance to Bell Atlantic customers. To the extent required by Applicable Law, if other access methods are developed by Bell Atlantic, such will be made available to MCIIm at Parity. Direct Access will enable MCIIm's operator bureau to obtain direct electronic access to the DA Database for the purpose of providing intraLATA Directory Assistance to MCIIm customers. MCIIm may search and read DA Database information at the per query rates specified in Table 1 of Attachment I. Bell Atlantic will furnish ports for connection and termination of MCIIm facilities to the DA Database system. The type of ports and associated charges will be based on the type of access configuration required by MCIIm for termination of its facilities. The number of ports provided at the DA Database will be based on MCIIm's annual forecast of "busy hour" queries. At the request of MCIIm, Bell Atlantic will also accept electronic transmission of MCIIm Customer DA information for inclusion in the DA Database.

**EXHIBIT A**

**Bell Atlantic**

**WHITE PAGES**

**Philadelphia**

Area Code 215

September August  
**1996-1997**



*Recycle Your Old Phone Books*  
For details see the Recycling Pages in the Customer Guide

Other Telephone Companies



**Eastern TeleLogic Corporation**  
A Comcast Affiliate

**Eastern TeleLogic Corporation**

Main Number

610-382-2000

Repair

888-ETCS-NCC  
(382-7622)

Customer Service

800-959-5444

Sales Information

888-272-0500

Pennsylvania TRS

Text Telephone

Voice

800-654-5984

800-654-5988



**MCI Business Customers**

Local Sales, Service, Billing & Repair

800-374-6400

**MCI Business Customers**

Billing and Payment information

800-374-6400

**MCI Residential Customers**

Local Sales, Service, Billing & Repair

800-274-5565

**MCI Residential Customers**

You may pay your bill by sending your check and the remittance stub to:

MCI

P.O. Box 841199

Dallas, TX 75284-1199



**MFS Intelenet Companies**

Local Sales Office

610-617-6000

Customer Service, Repair and Billing

800-938-MFSI  
(6374)

Customer Billing Mailing Address:

MFS Intelenet, Inc.

P.O. Box 8500-1590

Philadelphia, PA 19178-1590

**MFS Telecom Companies**

Local Sales Office

215-977-8500

Customer Service and Billing

800-938-MFSI  
(6374)

Repair

800-MFS-CITY  
(637-2489)

Customer Billing Mailing Address:

MFS Telephone

Dept. 32310

P.O. Box 7413

Chicago, IL 60680-7413

TABLE OF CONTENTS

**Attachment IX  
SECURITY REQUIREMENTS**

Section 1.	Physical Security	IX - 1
Section 2.	Network Security	IX - 2
Section 3.	Revenue Protection	IX - 2
Section 4.	Law Enforcement Interface	IX - 3

## ATTACHMENT IX

### SECURITY REQUIREMENTS

#### *Section 1. Physical Security*

This Section 1 sets forth security requirements for physical Collocation at Bell Atlantic's premises. Each Party shall take reasonable steps to protect the other's personnel and property, including the following:

1.1 MCIIm shall access only equipment owned by MCIIm and shall enter only those areas of Bell Atlantic's premises where such equipment is located. Bell Atlantic shall maintain a log of its employees and agents that enter these areas. Bell Atlantic shall allow MCIIm, after reasonable advance notice, to inspect areas that house or contain MCIIm equipment or equipment enclosures in accordance with mutually acceptable procedures.

1.2 MCIIm shall deliver to Bell Atlantic within thirty (30) days of the date of this Agreement and every sixty (60) days thereafter a current list of its employees and agents authorized to enter Bell Atlantic's premises. While on Bell Atlantic's premises, such employees or agents shall prominently display identification badges. If requested by Bell Atlantic, MCIIm shall provide this information in an electronic format.

1.3 Each Party shall, while on the other's premises or in areas on its premises designated solely for the other Party's use, comply with the other's generally applicable security and safety procedures and requirements as may be provided from time to time by the other Party (including but not limited to sign-in, identification, and escort requirements); provided, however, that MCIIm's procedures and requirements for access to its equipment areas shall be consistent with those established by Bell Atlantic for the relevant premises.

1.4 Neither Party shall tamper with or perform any activities upon the other's equipment located on its premises, except as necessary to perform this Agreement (*e.g.*, equipment maintenance, installation, *etc.*) or in case of emergency. In an emergency, the affected Party shall promptly notify the other of the emergency, take steps it deems appropriate to manage the emergency (using reasonable care under the circumstances to protect the other's equipment), and allow the other Party to access its premises (subject to the requirements of this Section 1) to protect its equipment.

1.5 MCIIm shall ensure that areas that house MCIIm's equipment are adequately secured to prevent unauthorized entry. Bell Atlantic shall have no liability in this regard. MCIIm shall furnish Bell Atlantic with all keys, entry codes, lock combinations, and other materials and information necessary for Bell Atlantic to gain entry to any secured MCIIm area. Bell Atlantic shall limit access to such areas to its authorized employees and agents.

1.6 Each Party shall promptly notify the other of any breach by the other Party of the foregoing provisions.

1.7 MCI shall ensure that MCI equipment at Bell Atlantic's premises is suitable for use in the operational environment at such premises. Bell Atlantic shall have no liability in this regard, other than to maintain the general environmental conditions in the premises at normal operational levels suitable for its own equipment.

### *Section 2. System Security*

2.1 Each Party shall provide the other a back-up and recovery plan to be used in the event of a system failure or emergency to facilitate prompt systems restoration and recovery. The Parties shall reasonably cooperate to determine which systems require disaster, restoration and recovery plans. Any such plans will be provided to the other Party.

2.2 Each Party shall maintain a reasonable standard of security between operation system interfaces consistent with its own information security practices.

### *Section 3. Fraud Prevention*

3.1 Each Party shall make available to the other fraud prevention features, including prevention, detection, or control functionality, that may be embedded within any of the Network Elements in accordance with applicable Tariffs or as otherwise mutually agreed, such as 900 NPA and international blocking offered to business customers and aggregators.

3.2 Uncollectible or unbillable revenues from fraud and resulting from, but not confined to provisioning, maintenance, or signal network routing errors shall be the responsibility of the Party causing such error.

3.3 Neither Party shall be responsible to the other for any fraud incurred in connection with their respective service offerings, except that each Party shall indemnify and hold each other harmless for any losses payable to IXC carriers caused by "clip-on" fraud incurred as a result of unauthorized access to an indemnifying party's Service Area Concept ("SAC"); provided that the indemnifying party shall control all negotiations and settlements of such claims with the applicable IXC carriers.

*Section 4. Law Enforcement Interface*

Each Party shall provide reasonable assistance to the other in accordance with Applicable Law and the Party's internal procedures in connection with: installation of and information retrieval from traps in its network, emergency traces on and information retrieval from subscriber invoked CLASS services (e.g., call traces requested by the other Party), and execution of wiretap or dialed number recorder orders from law enforcement authorities.

**TABLE OF CONTENTS**

**Attachment X  
PERFORMANCE REPORTING**

Section 1. Initial Performance Reporting	X - 1
Section 2. Further Performance Reporting	X - 3
Section 3. Definitions for Initial Performance Reports	X - 4
Schedule A Service Category and Measurement Definitions	
Schedule B MCIIm Specific Measurement Report	
Schedule C Bell Atlantic Including Bell Atlantic Affiliates Measurement Report	
Schedule D Top 3 Carrier Customers Measurement Report	
Schedule E All CLECs Measurement Report	
Schedule F Top 10 Largest Customers Measurement Report	
Exhibit A Proposed Further Performance Reporting Measures	

## ATTACHMENT X

### PERFORMANCE REPORTING

#### *Section 1. Initial Performance Reporting*

1.1 Bell Atlantic shall supply to MCI initial performance reports each month on Bell Atlantic's performance in Pennsylvania in accordance with this Section 1. The reports shall be substantially in the format of the documents attached hereto as Schedules B through F. The definitions of the rows and columns in the reports are set forth in Schedule A. The coverage of each report is set forth in its title, with the additional explanations set forth below.

1.1.1 Schedule B (MCI-Specific) will report the statewide performance of Bell Atlantic for the services provided to MCI for the preceding calendar month for the measures set forth in the report and defined in Schedule A. The dates in the cells in Schedule B are the dates that Bell Atlantic will be able to provide the information in that cell. Where the date is accompanied by the letters "Est." ("estimated"), the date in that cell is Bell Atlantic's best estimate and target, but not yet a commitment. Bell Atlantic will make its best efforts to meet the "Est." dates and will inform MCI of any potential change in those dates if and when that potential appears. Where the cell contains an "N/A" ("not applicable"), the measure is not applicable for that service category.

1.1.2 Schedule C (Bell Atlantic Including Bell Atlantic affiliates) will report statewide, system-wide performance of Bell Atlantic, including for the services provided to affiliate companies of Bell Atlantic, for the preceding calendar month for the measures set forth in the report and defined in Schedule A. The dates and notations in Schedule C have the same meanings as those described above for Schedule B. Bell Atlantic does not have an immediately comparable service for Unbundling and, as a result, those columns have been marked as "N/A". Bell Atlantic's "Retail - POTS" column reflects results from Bell Atlantic's retail operations for POTS services and is comparable to the "Resale - POTS" service on the other schedules (Schedule B, Schedule D, Schedule E and, when available, Schedule F).

1.1.3 Schedule D (Top 3 Carriers) will report the statewide performance of Bell Atlantic for the services provided to the largest three telecommunications carriers interconnecting with or purchasing services from Bell Atlantic pursuant to Sections 251 and 252 of the Act, combined, for the preceding calendar month for the measures set forth in the report and defined in Schedule A. The dates and

notations in Schedule D have the same meanings as those described above for Schedule B. In order to preserve the confidentiality of other carriers' information, results for a service (report column) will only be produced on this report if all three carriers purchased the reported service in the calendar month.

1.1.4 Schedule E (All CLECs) will report the statewide performance of Bell Atlantic for the services provided to telecommunications carriers interconnecting with or purchasing services from Bell Atlantic pursuant to Sections 251 and 252 of the Act and Bell Atlantic has a reporting obligation under the signed interconnection agreement, combined, for the preceding calendar month for the measures set forth in the report and defined in Schedule A. The dates and notations in Schedule E have the same meanings as those described above for Schedule B. In order to preserve the confidentiality of other carriers' information, results for a service (report column) will only be produced on this report if three carriers purchased the reported service in the calendar month.

1.1.5 Schedule F (10 Largest Retail Customers) will, at such time as Bell Atlantic is able to collect and report such information, and upon agreement regarding compensation for the collection and reporting of such information, if any, report statewide performance of Bell Atlantic for the services provided to its ten largest retail customers for the preceding calendar month for the measures set forth in the report and defined in Schedule A. The cells in Schedule F are all marked "TBD" ("to be determined") without an accompanying estimated date because Bell Atlantic has not yet determined that the collection and reporting of this information is feasible, and if it is, when such reporting might be available. Bell Atlantic agrees, however, that it will continue its best efforts assessment of the feasibility of collecting and reporting this information and will promptly report to MCI the results of that assessment and the availability of such information at such time as Bell Atlantic develops the capability to collect and report it for Bell Atlantic's own internal use.

1.2 The Parties agree that the performance information included in these reports is Confidential Information of Bell Atlantic and, with respect to MCI specific reports, Confidential Information of MCI under Section 22 of this Agreement. The Parties shall use such Confidential Information solely for internal performance assessment purposes, for purposes of joint MCI and Bell Atlantic assessments of service performance, and for reporting to the Commission, the FCC, or courts of competent jurisdiction, under cover of a protective order pursuant to Section 22 of Part A.

1.3 The question of what remedies or other action might be appropriate in any situation where MCI believes, based on a statistically significant number of data elements described above, that Bell Atlantic is not complying with any of the performance standards in the Agreement shall be resolved, in the first instance, through negotiations between the Parties to resolve the issue at the Director level of escalation, and, failing

prompt and successful negotiations, through the complaint processes of the Commission, the FCC, or a court of competent jurisdiction. Bell Atlantic agrees to join MCI in encouraging the Commission to develop expedited procedures for the resolution of any performance-related complaints.

## ***Section 2. Further Performance Reporting***

2.1 In addition to the performance reporting identified in Section 1, Bell Atlantic shall develop and provide to MCI further performance reporting in accordance with this Section 2.

2.1.1 Within thirty (30) days after the Effective Date of this Agreement, Bell Atlantic shall review MCI's list of reports (Exhibit A hereto) and identify those reports that Bell Atlantic either: (i) has already included in the reporting set forth in Section 1; (ii) produces for internal use; or (iii) is obligated to produce for regulatory purposes.

2.1.2 Within ninety (90) days after the Effective Date of this Agreement, Bell Atlantic shall provide MCI the estimated incremental costs of providing the reports included in Exhibit A hereto that are not identified pursuant to Paragraph 2.1.1. For reports for which the costs cannot be determined without the substantial participation of Bell Atlantic's equipment, software, or systems vendors, Bell Atlantic will identify such reports, and proceed to develop cost estimates with the vendor(s) only if authorized by MCI. If, after receiving cost estimates for particular reports, MCI elects to receive such reporting, MCI and other CLECs who also elect to receive such reports shall bear the incremental costs, allocated on a competitively-neutral basis, of providing any reports that Bell Atlantic does not provide for internal use or is not obligated to provide for regulatory purposes. The costs of developing cost estimates shall also be allocated among the receiving CLECs on a competitively-neutral basis.

2.1.3 Bell Atlantic shall begin reporting to MCI, and to other CLECs who also elect to receive such reports, all reports included in Exhibit A that MCI elects to receive in accordance with this Section 2.1.3 as soon as reasonably practicable after receiving MCI's written election and commitment to pay the costs of such reporting. Such reporting shall be integrated into the reporting set forth in Section 1.

2.1.4 MCI may from time to time request reports from Bell Atlantic that are not contained in MCI's original list (Exhibit A hereto). Bona Fide Request procedures set forth in Section 25 of Part A shall apply.

2.1.5 The Parties acknowledge that further discussions will be necessary to define the data upon which the reports are based. Therefore, within sixty (60) days after

the Effective Date of this Agreement, the Parties shall agree to such definitions and will amend this Attachment accordingly.

***Section 3. Definitions for Initial Performance Reports***

3.1 The following definitions apply to the Initial Performance Reports included in Section 1 above. Bell Atlantic shall develop and supply definitions at a comparable level of detail for any further performance reporting deployed pursuant to Section 2.

**SCHEDULE A**

## SCHEDULE A

### SERVICE CATEGORY (COLUMN) DEFINITIONS

Name	Definition
<b>Performance Measurement</b>	Provides a general description of the fourteen (14) performance measurements. See Measurement Definitions - Rows below.
<b>Special Services (Access)</b> <i>DS0</i> <i>DS1</i> <i>DS3</i>	The column group title Special Services (Access) refers to Private Line Special Access results (does not include resold or unbundled services). DS1 and DS3 are discrete services. DS0 includes all other special services.
<b>CLEC Trunking</b>	The column represents service for CLEC trunks that carry traffic office to office.
<b>Unbundling</b> <i>POTS</i> <i>Special Services</i>	The column group title Unbundling refers to both POTS and Special unbundling services purchased by the CLEC. The POTS column includes the unbundled loops and ports. The Special Services column includes all special services combined.
<b>Resale - POTS</b>	The Resale-POTS column refers to POTS services that have been resold to the CLEC. On the Bell Atlantic Including Affiliates Report, the Retail-POTS column is comparable to the Resale-POTS column of the other four (4) reports.

### MEASUREMENT DEFINITIONS - ROW

Name	Definition
<b>1. Number of Installations</b>	<p>This is the total number of service orders issued requested by MCI and completed by Bell Atlantic. Regardless of the number of elements or circuits ordered, each service order counts as one.</p> <p>Number of Installations results can not be compared from report (e.g., MCI-Specific) to report (e.g., Bell Atlantic Including Bell Atlantic Affiliates). However, volume is a good indicator as to whether meaningful comparisons can be made about provisioning intervals and percent orders completed on time.</p>
<b>2. Average Interval in Days</b>	<p>This is the sum of the receipt date to the service order due date as established on the firm order confirmation (FOC) for each service order where Bell Atlantic established the interval using the normal interval with this sum being divided by the total number of service orders used in the calculation</p> <p>MCI will send Bell Atlantic a service order request (PON) and Bell Atlantic will return the FOC which stipulates the scheduled completion date. The time from the PON date to the date due established on the FOC represents the average interval per order.</p> <p>Bell Atlantic flags each order with an appointment flag of either "x" or "w". If the scheduled interval reflected on the order is established by Bell Atlantic using the normal interval process, the order will be flagged with the "w". However, if MCI should request a date that is further out than the normal interval, the order will be flagged with the "x" to indicate that long interval was offered at the customer's request.</p> <p>For this category measurement, only those orders with the "w" indicator will be counted.</p> <p>If for some reason the order needs to be redated (longer or shorter), the final FOC date is the date that will be used for measurement purposes.</p>
<b>3. Percent Install on Time</b>	This measurement is the total number of installations (both "x" and "w" service orders) that were completed on time (based on the service order established due date) divided by the total number of service orders. This is the percentage of orders completed on time.

Name	Definition
4. Total Number of Missed Appointments	This measurement is the total number of service orders <i>not</i> completed on time. An appointment is defined as the date due agreed to by the customer and Bell Atlantic and shown on the order. If the customer issues a supplemental order changing the date due, the new date due will be measured as the appointment. Orders that are held or missed due to customer reasons <i>will not</i> be counted as a Bell Atlantic miss. This definition includes multi-item orders. If one item of a multi-item order is missed due to customer reasons, the order <i>will not</i> be counted as a Bell Atlantic miss.
5. Total Percent of Missed Appointments	Total Number of Missed Appointments divided by the total number of service orders See appointment definition on item # 4.
6. Number of Reports	This is the total number of customer trouble reports (i.e., CR troubles) received from MCIm by service category. Each trouble counts as one and in cases where the trouble is redated or subsequent reports are received for escalations or to question status, Bell Atlantic will not count the subsequent reports. From receipt to close, each trouble counts as 1, regardless of the trouble resolution (CPE, NTF or Bell Atlantic Network). This measurement <i>does not include</i> information tickets (i.e., INF troubles).
7. Mean Time to Clear Reports	<p>This is the total measurable hours and minutes from all customer trouble reports, i.e., #6 above, (from the time Bell Atlantic receives a trouble from MCIm until the service is restored and closed with MCIm) divided by the total number of troubles for the report period. This measurement <i>does not include</i> information tickets (i.e., INF troubles).</p> <p>For Special Services columns and CLEC Trunking, the measurements will be "Stop Clock" measurements where "no access" (customer access delayed) time is removed from the measurement.</p> <p>For POTS columns, this will be a running 24 hour clock from trouble receipt to trouble clearance time. The Bell Atlantic clear time is the time service is restored. The Bell Atlantic work process is for the customer (MCIm) to be notified as soon as service is cleared. Bell Atlantic does not use the "close time" because after clearing the trouble, the technician may stay and complete another hour or so of clean up before actually closing the trouble.</p>
8. Number of Failures	<p>The number of failures is the total number of trouble reports where the trouble was closed out with a code indicating that the fault was a Bell Atlantic service problem.</p> <p>Removed from the total trouble reports will be all the troubles that reflect the cause of the trouble to be other than a Bell Atlantic Network fault. Examples would be troubles caused by Customer Provided Equipment (CPE), errors by the customers end user in the use of the service or where no trouble was detected (F OK and T/OK).</p>
9. Failure Frequency Percent	The Number of Failures (#8 above) divided by the total number of circuits that MCIm has purchased from Bell Atlantic. The result expressed as a percentage.
10. Percent Without Report Outstanding	<p>For this measurement, Bell Atlantic is to do the following:</p> <ol style="list-style-type: none"> <li>1. Multiply the total number of circuits by the total hours in the report period to establish the total hours of service availability possible for the report period.</li> <li>2. Add all of the measurable time (hours and minutes) for only the network reports (i.e., Failures) to establish the total non service availability hours for the report period.</li> <li>3. Subtract the "non service availability" hours from the "total service availability" hours and divide the result by the "total service availability" hours and display this as a percentage.</li> </ol>

Name	Definition
11. Total Number of Repeat Reports (30 days rolling)	This is the number of measured customer repeat reports (i.e., CR repeat reports) within a 30 day rolling window. The measured CR reports include: Came Clear (CC), Central Office (CO), Facility (FAC), Test OK (TOK), Serving Bureau Time (SVB), NPC - Bell Atlantic switch and beyond. Non-measured customer reports are Information (INF), Customer Provided Equipment (CPE), and Interexchange Carrier (IEC). This measurement will be provided initially at a regional level, not state specific. The 3 components of the regional measurement are: one for Pennsylvania and Delaware, one for New Jersey and one for the 4 former C&P Companies, Maryland, Virginia, West Virginia and Washington, DC. Bell Atlantic will request an enhancement to the support system being used for measurements. State specific measurements will be available on a date to be determined (TBD).
12. Repeats as a Percent of Total Troubles	Number of measured customer repeat reports (i.e., CR repeat reports) divided by the total number of customer reports (i.e., CR reports). See definition of customer report contained in item # 11. This measurement will also be provided initially at a regional level, not state specific. See definition of regions in item #11.
13. Number of Out of Service Cleared >= 24 Hours	Number of out of service customer reports (i.e., CR reports) cleared in 24 hours or more. See definition of customer report contained in item # 11.  For Special Services columns, the measurements will be "Stop Clock" measurements where "no access" time is removed from the measurement.
14. Percent of Out of Service Cleared >= 24 Hours	Number of Out of Service Cleared >= 24 Hours divided by the total number of customer reports (i.e., CR reports). The result is expressed as a percentage. See definition of customer report contained in item # 11.  For Special Services columns, the measurements will be "Stop Clock" measurements where "no access" time is removed from the measurement.

**SCHEDULE B**

## "MCI Specific" Report

Performance Measurement	Special Services (Access)			CLEC Trunking	Unbundling		Resale
	DS0	DS1	DS3		POTS	Special Services	POTS
<b>Installation</b>							
1 Number of Installations	See note below	See note below	See note below	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
2 Average Interval in Days	See note below	See note below	See note below	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
3 Percent Install on Time	See note below	See note below	See note below	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
4 Total Number of Missed Appointments	See note below	See note below	See note below	N/A	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
5 Total Percent of Missed Appointments	See note below	See note below	See note below	N/A	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
<b>Service Quality</b>							
6 Number of Reports	See note below	See note below	See note below	4/1/97	See note below	See note below	See note below
7 Mean Time to Clear Reports	See note below	See note below	See note below	4/1/97	See note below	See note below	See note below
8 Number of Failures	See note below	See note below	See note below	4/1/97	See note below	See note below	See note below
9 Failure Frequency Percent	See note below	See note below	See note below	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
10 Percent Without Report Outstanding	See note below	See note below	See note below	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
11 Total Number of Repeat Reports (30 Days Rolling)	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97
12 Repeats as a Percent of Total Troubles	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97
13 Number of Out of Service Cleared >= 24 Hours	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97
14 Percent of Out of Service Cleared >= 24 Hours	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97

**Note:** End of first full calendar month following initial exchange of traffic between the Parties under this Agreement

**SCHEDULE C**

## Bell Atlantic Including Bell Atlantic Affiliates Report

Performance Measurement	Special Services (Access)			CLEC Trunking	Unbundling		Retail
	DS0	DS1	DS3		POTS	Special Services	POTS
<b>Installation</b>							
1 Number of Installations	1/1/97	1/1/97	1/1/97	4/1/97	N/A	N/A	1/1/97
2 Average Interval in Days	1/1/97	1/1/97	1/1/97	4/1/97	N/A	N/A	1/1/97
3 Percent Install on Time	1/1/97	1/1/97	1/1/97	4/1/97	N/A	N/A	1/1/97
4 Total Number of Missed Appointments	1/1/97	1/1/97	1/1/97	N/A	N/A	N/A	1/1/97
5 Total Percent of Missed Appointments	1/1/97	1/1/97	1/1/97	N/A	N/A	N/A	1/1/97
<b>Service Quality</b>							
6 Number of Reports	1/1/97	1/1/97	1/1/97	4/1/97	N/A	N/A	1/1/97
7 Mean Time to Clear Reports	1/1/97	1/1/97	1/1/97	4/1/97	N/A	N/A	1/1/97
8 Number of Failures	1/1/97	1/1/97	1/1/97	4/1/97	N/A	N/A	1/1/97
9 Failure Frequency Percent	1/1/97	1/1/97	1/1/97	4/1/97	N/A	N/A	1/1/97
10 Percent Without Report Outstanding	1/1/97	1/1/97	1/1/97	4/1/97	N/A	N/A	1/1/97
11 Total Number of Repeat Reports (30 Days Rolling)	4/1/97	4/1/97	4/1/97	N/A	N/A	N/A	4/1/97
12 Repeats as a Percent of Total Troubles	4/1/97	4/1/97	4/1/97	N/A	N/A	N/A	4/1/97
13 Number of Out of Service Cleared >= 24 Hours	4/1/97	4/1/97	4/1/97	N/A	N/A	N/A	4/1/97
14 Percent of Out of Service Cleared >= 24 Hours	4/1/97	4/1/97	4/1/97	N/A	N/A	N/A	4/1/97

**SCHEDULE D**

**Top 3 Carrier Customers Report**

Performance Measurement	Special Services (Access)			CLEC Trunking	Unbundling		Resale
	DS0	DS1	DS3		POTS	Special Services	POTS
<b>Installation</b>							
1 Number of Installations	1/1/97	1/1/97	1/1/97	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
2 Average Interval in Days	1/1/97	1/1/97	1/1/97	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
3 Percent Install on Time	1/1/97	1/1/97	1/1/97	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
4 Total Number of Missed Appointments	1/1/97	1/1/97	1/1/97	N/A	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
5 Total Percent of Missed Appointments	1/1/97	1/1/97	1/1/97	N/A	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
<b>Service Quality</b>							
6 Number of Reports	1/1/97	1/1/97	1/1/97	4/1/97	1/1/97	1/1/97	1/1/97
7 Mean Time to Clear Reports	1/1/97	1/1/97	1/1/97	4/1/97	1/1/97	1/1/97	1/1/97
8 Number of Failures	1/1/97	1/1/97	1/1/97	4/1/97	1/1/97	1/1/97	1/1/97
9 Failure Frequency Percent	1/1/97	1/1/97	1/1/97	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
10 Percent Without Report Outstanding	1/1/97	1/1/97	1/1/97	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
11 Total Number of Repeat Reports (30 Days Rolling)	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97
12 Repeats as a Percent of Total Troubles	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97
13 Number of Out of Service Cleared >= 24 Hours	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97
14 Percent of Out of Service Cleared >= 24 Hours	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97

Note: Results produced when a minimum of 3 carriers purchase measured service.

SCHEDULE E

## All CLECs Report

Performance Measurement	Special Services (Access)			CLEC Trunking	Unbundling		Resale
	DS0	DS1	DS3		POTS	Special Services	POTS
<b>Installation</b>							
1 Number of Installations	1/1/97	1/1/97	1/1/97	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
2 Average Interval in Days	1/1/97	1/1/97	1/1/97	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
3 Percent Install on Time	1/1/97	1/1/97	1/1/97	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
4 Total Number of Missed Appointments	1/1/97	1/1/97	1/1/97	N/A	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
5 Total Percent of Missed Appointments	1/1/97	1/1/97	1/1/97	N/A	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
<b>Service Quality</b>							
6 Number of Reports	1/1/97	1/1/97	1/1/97	4/1/97	1/1/97	1/1/97	1/1/97
7 Mean Time to Clear Reports	1/1/97	1/1/97	1/1/97	4/1/97	1/1/97	1/1/97	1/1/97
8 Number of Failures	1/1/97	1/1/97	1/1/97	4/1/97	1/1/97	1/1/97	1/1/97
9 Failure Frequency Percent	1/1/97	1/1/97	1/1/97	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
10 Percent Without Report Outstanding	1/1/97	1/1/97	1/1/97	4/1/97	Est. (7/1/97)	Est. (7/1/97)	Est. (7/1/97)
11 Total Number of Repeat Reports (30 Days Rolling)	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97
12 Repeats as a Percent of Total Troubles	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97
13 Number of Out of Service Cleared >= 24 Hours	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97
14 Percent of Out of Service Cleared >= 24 Hours	4/1/97	4/1/97	4/1/97	N/A	4/1/97	4/1/97	4/1/97

Note: Results produced when a minimum of 3 carriers purchase measured service

**SCHEDULE F**

Top 10 Largest Customers Report

Performance Measurement	Special Services (Access)			CLEC Trunking	Unbundling		Resale
	DS0	DS1	DS3		POTS	Special Services	POTS
<i>Installation</i>							
1 Number of Installations	TBD	TBD	TBD	TBD	TBD	TBD	TBD
2 Average Interval in Days	TBD	TBD	TBD	TBD	TBD	TBD	TBD
3 Percent Install on Time	TBD	TBD	TBD	TBD	TBD	TBD	TBD
4 Total Number of Missed Appointments	TBD	TBD	TBD	TBD	TBD	TBD	TBD
5 Total Percent of Missed Appointments	TBD	TBD	TBD	TBD	TBD	TBD	TBD
<i>Service Quality</i>							
6 Number of Reports	TBD	TBD	TBD	TBD	TBD	TBD	TBD
7 Mean Time to Clear Reports	TBD	TBD	TBD	TBD	TBD	TBD	TBD
8 Number of Failures	TBD	TBD	TBD	TBD	TBD	TBD	TBD
9 Failure Frequency Percent	TBD	TBD	TBD	TBD	TBD	TBD	TBD
10 Percent Without Report Outstanding	TBD	TBD	TBD	TBD	TBD	TBD	TBD
11 Total Number of Repeat Reports (30 Days Rolling)	TBD	TBD	TBD	TBD	TBD	TBD	TBD
12 Repeats as a Percent of Total Troubles	TBD	TBD	TBD	TBD	TBD	TBD	TBD
13 Number of Out of Service Cleared >= 24 Hours	TBD	TBD	TBD	TBD	TBD	TBD	TBD
14 Percent of Out of Service Cleared >= 24 Hours	TBD	TBD	TBD	TBD	TBD	TBD	TBD

**EXHIBIT A**

## Exhibit A

<b>Proposed Further Performance Reporting Measures</b>
<b>Ordering and Provisioning</b>
Time to provision each unbundled element
Time to install resold lines and trunks - varies according to line size, line type, and need for premises visit.
Total number and percent of missed appointments
Total number and % of missed firm order commitment dates
Time to acknowledge receipt of service order
Time to provide FOC or notification of a rejected order
Time to complete any suspend/block/restore/order
Time to install Centrex lines
Time to implement feature change
Time to disconnect resold service - varies with or without premises visit
Time to disconnect resale service
Time to disconnect unbundled switching service
Time to disconnect other unbundled service
% of Outages within 30 days for new services provisioned
<b>Usage Billing</b>
Time taken to send records to MCI following recording
Number of omissions from records
<b>Maintenance and Repair</b>
In service and out of service repair intervals
Number and percentage of Repeat Troubles
Troubles per 100 lines
Time taken to answer phone where manual service provided
Number and percentage of missed appointments
Number and percentage of estimated time to restore met.
Number and percentage of troubles requiring a dispatch
% breakdowns attributed to each trouble category

<b>Proposed Further Performance Reporting Measures</b>
<b>Operational Systems</b>
Support Systems Availability
System Response Time
<b>Operator Services</b>
Monthly Average for Seconds of Operator Answer Delay
Monthly Total of Quarter Hours of Operator Answer Delay
Monthly Call Abandonment and Blockage
<b>Directory Assistance</b>
Voice DA Availability
Voice DA Outage Restoral Notification
Voice DA Time to Answer
Voice DA Average Work Time
Voice DA Abandonment From Queue
<b>Network Performance</b>
Switched Service Disruption
Dedicated Service Disruption
Network Event
Blocked Calls
Blocked Dial Tone
Post Dial Delay

**Amendment Number One to the  
Interconnection Agreement  
between  
Bell Atlantic-Pennsylvania, Inc.  
and  
MCImetro Access Transmission Services LLC**

THIS AMENDMENT NUMBER ONE to the Interconnection Agreement (the "Agreement") executed on July 8, 1997 between Bell Atlantic-Pennsylvania, Inc. ("Bell Atlantic"), a Pennsylvania corporation with offices at 1717 Arch Street, Philadelphia, Pennsylvania 19103 and MCImetro Access Transmission Services, Inc. ("MCI"), is entered into this 17 day of December 1998 by and between Bell Atlantic and MCImetro Access Transmission Services LLC, a Delaware corporation with offices at 8521 Leesburg Pike, Vienna, Virginia, 22182.

WHEREAS, MCImetro Access Transmission Services, Inc. has merged into MCImetro Access Transmission Services LLC effective December 1, 1998 at 5:01 p.m.; and

WHEREAS, by operation of law, as of the effective date of the merger, MCImetro Access Transmission Services LLC is responsible for all of the obligations and liabilities of MCImetro Access Transmission Services, Inc.; and

WHEREAS, pursuant to Section 41 of Part A of the Agreement, the Agreement is binding upon and inures to the benefit of MCImetro Access Transmission Services LLC as the successor to MCImetro Access Transmission Services, Inc.; and

WHEREAS, Bell Atlantic and MCImetro Access Transmission Services LLC (the "Parties") wish to amend the Agreement to reflect the appropriate corporate name; and

WHEREAS, Bell Atlantic and MCImetro Access Transmission Services, Inc. entered into a Directory Assistance License Agreement and a Settlement Agreement both dated November 19, 1998; and

WHEREAS, the Parties desire that the Agreement incorporate the rates, terms and conditions of the Directory Assistance License Agreement and the Settlement Agreement;

NOW, THEREFORE, pursuant to Section 36 of Part A of the Agreement, the Parties agree to amend the Agreement as set forth in the Parts A and B and Attachments I, III, VI and VIII attached hereto.

IN WITNESS WHEREOF, the undersigned have caused this Amendment Number One to be duly executed and become effective as of the date hereof.

MCIMETRO ACCESS  
TRANSMISSION SERVICES LLC

By: Marcel Henry

Name: Marcel Henry

Title: Vice President

Date: 12/9/98

BELL ATLANTIC-PENNSYLVANIA,  
Inc.

By: Jeffrey A. Masoner

Name: Jeffrey A. Masoner

Title: Vice President

Date: 12-17-98

# APPENDIX 2

## BELL ATLANTIC - PENNSYLVANIA, INC.

DETAILED SCHEDULE OF ITEMIZED CHARGESA. BA SERVICES, FACILITIES, AND ARRANGEMENTS:<sup>1</sup>

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>I. Local Call Termination<sup>2</sup></b>		
Traffic Delivered at BA End Office	\$.001864/MOU	Not Applicable
Traffic Delivered at BA Tandem	\$.002902/MOU	Not Applicable

<sup>1</sup> Unless a citation is provided to a generally applicable BA tariff, all listed rates and services are available only to Fibernet when purchasing these services for use in the provision of Telephone Exchange Service, and apply only to Local Traffic and local Ancillary Traffic. BA rates and services for use by Fibernet in the carriage of Toll Traffic shall be subject to BA's tariffs for Exchange Access Service. Adherence to these limitations is subject to a reasonable periodic audit by BA.

As applied to wholesale discount rates, unbundled Network Elements or call transport and/or termination of Local Traffic purchased for the provision of Telephone Exchange Service or Exchange Access, the rates and charges set forth in Exhibit A shall apply until such time as they are replaced by new rates as may be approved or allowed into effect by the Commission from time to time pursuant to the FCC Regulations, subject to a stay or other order issued by any court of competent jurisdiction. At such time(s) as such new rates have been approved or allowed into effect by the Commission, the Parties shall amend Exhibit A to reflect the new approved rates.

<sup>2</sup> See note 6 regarding measurement and calculation of local traffic termination charges.

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>II. Unbundled Transport</b>		
<b>A. Dedicated Transport</b>		
Voice Grade/DS-0	\$10.37/Month & \$.03/Mile/Month	<u>Voice Grade/DS-0,</u> <u>DS-1, DS-3 &amp; DDS:</u> \$1.05/Service Order, \$353.70/Initial Facility & \$24.00/Additional - Facility (if purchased when initial facility ordered)
DS-1	\$37.66/Month & \$.66/Mile/Month	
DS-3	\$526.72/Month & \$18.66/Mile/Month	
DDS	\$10.74/Month & \$.04/Mile /Month	
<b>B. Common Transport</b>		
Tandem Switching	\$.000836/MOU	Not Applicable
Transport Fixed	\$.000152/MOU	Not Applicable
Transport Per Mile	\$.000004/MOU	Not Applicable

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>II. Unbundled Transport (Continued)</b>		
<b>C. Entrance Facilities</b>		
		<u>All:</u> \$1.05/Service Order plus installation charges for each initial and additional facility purchased at the time of order:
2Wire Voice Grade Channel Termination	\$16.78/Month	\$497.06/Initial & \$289.47/Additional
4Wire Voice Grade Channel Termination	\$33.76/Month	\$498.73/Initial & \$290.02/Additional
DS-1 to Voice Grade Multiplexing	\$77.83/Month	\$548.06/Initial & \$548.06/Additional
DS-1 Channel Termination	\$180.59/Month	\$668.37/Initial & \$331.87/Additional
DS-3 to DS-1 Multiplexing	\$257.61/Month	\$548.06/Initial & \$548.06/Additional
DS-3 Channel Termination	\$1059.65/Month	\$668.37/Initial & \$331.87/Additional
<b>D. Digital Cross-Connect System</b>		
Service Establishment	Not Applicable	\$1890.82
Database Modification	Not Applicable	\$148.68/Modification Request
Reconfiguration by BA personnel	Not Applicable	\$31.98 Programming Charge/Half Hour
DS-0 Cross-Connect	\$20.54/Port/Month	\$26.17/Port
DS-1 Cross-Connect	\$71.92/Port/Month	\$32.71/Port

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>II. Unbundled Transport (Continued)</b>		
<b>E. Mid-span meet arrangements</b>	To be charged in accordance with the requirements of Attachment IV of the Agreement	
<b>F. Tandem Transit arrangements for Local Traffic between Fibernet and carriers other than Bell Atlantic that subtend a Bell Atlantic Tandem Switch. (Not applicable to Toll Traffic when Meet Point Billing Arrangement applies; Separate trunks required for IXC subtending trunks)</b>		
Tandem Switching	\$ .000836/MOU	Per Section II. above and V., as applicable
Switched Transport	\$ .000152/MOU \$ .000004/MOU/Mile	
<b>III. Unbundled Switching<sup>3</sup></b>		
<b>A. Local Switching Ports</b>		
POTS/PBX/Centrex	\$2.67/Port/Month	\$1.05/Service Order Per Port: \$2.97/Installation \$1.32/Disconnect
ISDN (BRI)	\$10.28/Port/Month	\$1.05/Service Order Per Port: \$2.97/Installation \$1.32/Disconnect
ISDN (PRI)	\$135.13/Port/Month	\$1.05/Service Order Per Port: \$113.36/Installation \$1.32/Disconnect
Public/Semi-Public	\$3.52/Port/Month	\$1.05/Service Order Per Port: \$2.97/Installation \$1.32/Disconnect

<sup>3</sup> In addition to the recurring and non-recurring rates set forth herein for unbundled switching elements, BA may levy upon purchaser of such elements any access charges (or portion thereof) permitted by Applicable Laws.

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
DID	\$5.98/Port/Month	\$1.05/ Service Order Per Port: \$692.07/Installation \$1.32/Disconnect
<b>B. Tandem Switching Usage</b>	\$.0008360/MOU	Not Applicable
<b>C. Local Switching Usage</b>		
Originating With Vertical Features	\$.011067/MOU	Not Applicable
Terminating With Vertical Features	\$.006143/MOU	Not Applicable

Service or Element Description:Recurring Charges:Non-Recurring Charge:**IV. Unbundled Loops**

POTS (Analog 2-Wire)

Density Cell:

- 1 - \$11.52/Month
- 2 - \$12.71/Month
- 3 - \$16.12/Month
- 4 - \$23.11/Month

Service Order: \$1.05Installation:

If premises visit not required - \$2.97 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$66.85, initial loop; \$22.59, additional loop

Disconnect:

\$1.32 per loop

ISDN

Density Cell:

- 1 - \$13.16/Month
- 2 - \$14.35/Month
- 3 - \$17.75/Month
- 4 - \$24.74/Month

Service Order: \$1.05Installation:

If premises visit not required - \$12.91 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$76.78, initial loop; \$32.52, additional loop

Disconnect:

\$1.32 per loop

Service or Element Description:Recurring Charges:Non-Recurring Charge:

## IV. Unbundled Loops (Continued)

Customer Specified Signaling - 2 Wire

Density Cell:

1 - \$11.52/Month

2 - \$12.71/Month

3 - \$16.12/Month

4 - \$23.11/Month

Service Order: \$1.05Installation:

If premises visit not required - \$2.97

initial and each additional loop; Not Applicable if existing loop &amp; port together

If premises visit required - \$66.85, initial loop; \$22.59, additional loop

Disconnect:

\$1.32 per loop

Coordinated Cutover:

If premises visit not required - \$3.24 per order

If premises visit required - \$12.10 per order

Designed Circuit:

\$40.93 per order

Service or Element Description:Recurring Charges:Non-Recurring Charge:**IV. Unbundled Loops (Continued)**

Customer Specified Signaling - 4 Wire

Density Cell:

1 - \$22.40/Month

2 - \$26.36/Month

3 - \$33.03/Month

4 - \$45.47/Month

Service Order: \$1.05Installation:

If premises visit not required - \$2.97 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$66.85, initial loop; \$22.59, additional loop

Disconnect:

\$1.32 per loop

Coordinated Cutover:

If premises visit not required - \$3.24 per order

If premises visit required - \$12.10 per order

Designed Circuit:

\$40.93 per order

Service or Element Description:Recurring Charges:Non-Recurring Charge:

## IV. Unbundled Loops (Continued)

DS1

Density Cell:

1 - \$132.51/Month  
 2 - \$139.37/Month  
 3 - \$168.59/Month  
 4 - \$252.46/Month

Service Order: \$1.05Installation:

If premises visit not required - \$2.97 initial and each additional loop; Not Applicable if existing loop & port together

If premises visit required - \$66.85, initial loop; \$22.59, additional loop

Disconnect:

\$1.32 per loop

Coordinated Cutover:

If premises visit not required - \$3.24 per order

If premises visit required - \$12.10 per order

Designed Circuit:

\$40.93 per order

2 Wire ADSL Loops

TBD

TBD

2 Wire &amp; 4 Wire HDSL Loops

TBD

TBD

Distance Extensions for various ULL types for distances exceeding transmission characteristics in applicable technical references.

TBD

TBD

## V. Collocation Cross-Connection

## A. Voice Grade Loop

Physical DS0 CO side to equipment

\$41/Month

Not Applicable

Virtual DS0 with RFT CO side MDF to equipment

\$1.20/Month

Not Applicable

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
Virtual DS1 with EDSX (1DS1 + 24 DS0's with IDLC)	\$60.21/Month	<u>Both:</u> \$1.05/Service Order \$544.36/Initial
Virtual DS1 with CFA (24DS0s with IDLA)	\$44.08/Month	Installation & \$210.46/Additional Installations

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>V. Collocation Cross-Connection (Continued)</b>		
<b>B. Other</b>		
Physical DS3	\$84.27/Month	
Physical DS1	\$15.72/Month	<u>All:</u> \$1.05/Service Order \$481.36/Initial Installation & \$194.71/Additional Installations
Virtual DS3	\$88.81/Month	
Virtual DS1	\$16.12/Month	
<b>VI. Time and Materials</b>		
Special Construction	As applicable per BA-PA PUC 1 sec. 9	
Service Technician (service work on unbundled loops outside of the Central Office)	Not Applicable	\$1.05/Service Order \$26.24/Premises Visit \$12.10 Labor Charge/ Quarter Hour After First Quarter Hour
Central Office Technician	Not Applicable	\$1.05/Service Order \$10.42 Labor Charge/ Quarter Hour or Fraction Thereof
<b>VII. Signaling and Databases</b>		
<b>A. STP Port</b>		
Termination	\$640.02/Month	\$94.15/Port
Access	\$.46/Mile/Month	\$1.05/Service Order \$274.06/Initial Facility & \$24.00/Additional Facility \$1.32/ Disconnect/ Link
<b>B. 800/888/877 Database</b>		
Basic Query	\$.000835/Query	Not Applicable
Vertical Query	\$.000343/Query	Not Applicable

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>VII. Signaling and Databases (Continued)</b>		
<b>C. LIDB Validation</b>		
LIDB Point Codes	Not Applicable	\$85.84/Point Code
Calling Card	\$.015542/Query	Not Applicable
Billed Number Screening	\$.015542/Query	Not Applicable
Storage of Fibernet's Data in LIDB Database	Not Applicable	\$1,469.92 Service Establishment
<b>D. AIN Service Creation (ASC) Service</b>		
<b>1. Developmental Charges</b>		
Service Establishment	Not Applicable	\$884.08
Service Creation Access Port	\$123.86/Port/Month	Not Applicable
Service Creation Usage		
a. Remote Access	\$1,328.47/Day	Not Applicable
b. On-Premise	\$1,328.47/Day	Not Applicable
Certification & Testing	\$76.99/Hour	Not Applicable
Help Desk Support	\$81.48/Hour	Not Applicable
<b>2. Service Charges</b>		
Subscription Charge	\$5.44/Month	Not Applicable
Database Queries		
a. Network Query	\$.0007/Query	Not Applicable
b. Fibernet Network Query	\$.0007/Query	Not Applicable
c. Fibernet Switch Query	\$.0007/Query	Not Applicable
Trigger Charge		
a. Line Based	\$.0010/Query	Not Applicable
b. Office Based	\$.0010/Query	Not Applicable
Utilization Element	\$.0003/Query	Not Applicable
Service Activation Charge		
a. Network Service Activation	Not Applicable	\$8.37/Service Activated/Line
b. Fibernet Network Service Activation	Not Applicable	\$8.37/Service Activated/Line

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
c. Fibernet Switch Service Activation	Not Applicable	\$8.37/Service Activated/Line

**D. AIN Service Creation (ASC) Service (Continued)**

Service Modification

DTMF Update	\$.1080/Occurrence	Not Applicable
Switch Based Announcement	\$.005/Announcement	Not Applicable

**VIII. Directory Listings & Books**

Primary Listing (on initial UNE service order). For each residence telephone number, two (2) listings in the White Page directory are provided. For each business telephone number listed (except numbers of Centrex or Centrex-like services or indialing service station lines) one (1) listing is provided in the White Page Directory and one (1) listing in the Yellow Page directory of the type provided to BA-PA end user business customers for which no specific charge applies.	Not Applicable	Not Applicable
--	----------------	----------------

Other Tariffed Listing Services (For listings ordered in excess of the primary listings provided or other listing types, or listings ordered at a time other than initial UNE service order, or listings ordered not associated with a UNE service order.)	Retail rates less wholesale discount. For retail rates see BA-PA tariff No. 1 sec. 5.B.	
--	---	--

Books & delivery (annual home area directories only)	No charge for normal numbers of books delivered to end users; bulk deliveries to Fibernet per separate arrangement	
--	--	--

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>IX. Operator Services/Directory Assistance</b>		
Direct Access	\$.0342/Query	\$32,135.28/Link & \$15,206.81 Service Establishment
Directory Assistance	\$.3664/Call	Not Applicable
Directory Transport		
Tandem Switching	\$.000730/Call	Not Applicable
Tandem Switched Transport	\$.000132/Call & \$.000003/Mile/Call	Not Applicable
Operator Services - Live	\$.01280/Operator Work Second	Not Applicable
Operator Services - Automated	\$.00158/Automated Work Second	Not Applicable
Branding for Directory Assistance and/or Operator Services	Not Applicable	\$1,358.62/Message
Carrier-to-Carrier LSV/VCI Requests	\$.01280/Operator Work Second	Not Applicable

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>X. Access to Operation Support Systems</b>		
<b>A. Pre-Ordering</b>	\$.22/Query	Not Applicable
<b>B. Ordering</b>	\$3.34/Transaction	Not Applicable
<b>C. Provisioning</b>	Included in Ordering	Not Applicable
<b>D. Maintenance &amp; Repair</b>		
1. ECG Access	\$.22/Query	Not Applicable
2. EB/OSI Access	\$1.16/Trouble Ticket	Not Applicable
<b>E. Billing</b>		
1. CD-ROM	\$246.59/CD-ROM	Not Applicable
2. Daily Usage File		
a. Existing Message Recording	\$.000258/Message	Not Applicable
b. Delivery of DUF		
Data Tape	\$17.18/Tape	\$61.39/Programming Hour
Network Data Mover	\$.000094/Message	Not Applicable
CMDS	\$.000094/Message	\$61.39/Programming Hour
c. DUF Transport		
9.6 kb Communications Port	\$10.24/Month	\$7,437.36/Port
56 kb Communications Port	\$28.29/Month	\$30,778.91/Port
256 kb Communications Port	\$28.29/Month	\$51,236.88/Port
T1 Communications Port	\$359.31/Month	\$182,827.99/Port
Line Installation	Not Applicable	\$61.39/Programming Hour/Port
Port Set-up	Not Applicable	\$9.85/Port
Network Control Programming Coding	Not Applicable	\$61.39/Programming Hour/Port
<b>XI. Exchange Access Service</b>		
Interstate	Per BA-FCC tariff number 1	
Intrastate	Per BA-PA tariff number 302	

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>XII. Number Portability</b> Interim (using RCF)	\$1.50/Month/Ported Number	\$5.00/Service Order \$4.00/Installation/No. at same location
Access pass-through to number portability purchaser	In accordance with Attachment VIII, Section 3.1.5 of Agreement	
<b>XIII. 911/E911</b> Transport		Per section II above.
Data Entry and Maintenance		No Charge
<b>XIV. Poles Conduits &amp; ROW</b>	Per contract rates pursuant to 47 U.S.C. sec. 224	
	Illustrative:	
	Duct: \$5.45/Foot/Year	
	Pole: \$3.98/Attachment/Year	
<b>XV. Network Interface Device (NID)</b>	\$.68/Month	Not Applicable
<b>XVI. Access to Telephone Numbers (NXX codes issued per ICCF Code Administration Guidelines)</b>		No Charge
<b>XVII. Local Dialing Parity</b>		No Charge
<b>XVIII. Customized Routing</b>		
To Reseller Platform	\$.142360/Line/Month	\$3.84/Line
To BA Platform for Re-Branding	\$.08330/Call	\$3.84/Line
Customized Routing Transport		Per section II above.

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
--	---------------------------	------------------------------

**XIX. Wholesale Discount for Resale of Retail Telecommunications Services<sup>4</sup>**

Resale of retail services if Fibernet provides own operator services platform	20.69%	
Resale of retail services if Fibernet uses Bell Atlantic operator services platform	18.43%	
Pennsylvania Gross Receipts Tax Discount		Discount as per BA-PA PUC 1 sec. 1.8.1 tariff.

---

<sup>4</sup> Excludes telecommunications services designed primarily for wholesale, such as switched and special exchange access service, and, subject to Attachment II of the Agreement, the following additional arrangements that are not subject to resale: limited duration (90 days or less) promotional offerings, public coin telephone service, and technical and market trials. Taxes shall be collected and remitted by the reseller and BA in accordance with legal requirements and as agreed between the Parties. Surcharges (e.g., 911, telecommunications relay service, universal service fund) shall be collected by the reseller and either remitted to the recipient agency or NECA, or passed through to BA for remittance to the recipient agency or NECA, as appropriate and agreed between the Parties. End user common line charges shall be collected by the reseller and remitted to BA.

Pending establishment of mechanized billing procedures adapted to resale, BA will apply the wholesale discount for resale as a "bottom-of-the-bill" discount rate and will utilize a "true-up" process to correct possible inadvertent application of the wholesale discount to the exclusions identified herein and to reflect other adjustments as the Companies agree.

Service or Element Description:

Recurring Charges:

Non-Recurring  
Charge:

**B. Fibernet SERVICES, FACILITIES, AND ARRANGEMENTS:**

<u>Service or Element Description:</u>	<u>Recurring Charges:</u>	<u>Non-Recurring Charge:</u>
<b>I. Local Call Termination<sup>5</sup></b>		
Traffic Delivered at End Office	\$ .001864/MOU	Not Applicable
Traffic Delivered at Tandem	\$ .002902/MOU	Not Applicable
<b>II. Number Portability</b>		
Interim	\$1.50/Month/Ported Number	\$5.00/Service Order \$4.00/Installation/No. at same location
Permanent	Per permanent funding mechanism when established.	
Access pass-through to number portability purchaser	In accordance with Attachment VIII, Section 3.1.5 of Agreement	
<b>III. Exchange Access Service</b>		
Interstate	Per Fibernet FCC exchange access tariff.	
Intrastate	Per Fibernet PA tariff exchange access tariff.	
<b>IV. Local Dialing Parity</b>		
No Charge		
<b>V. All Other Fibernet Services Available to BA for Purposes of Effectuating Local Exchange Competition</b>		
Available at Fibernet's tariffed or otherwise generally available rates, not to exceed BA rates for equivalent services available to Fibernet.		
<b>VI. Other Services</b>		
<b>Information Service Billing Fee</b>	\$ .03/Call	No Charge

---

<sup>5</sup> See note 6 regarding measurement and calculation of local traffic termination charges.

## 6 LOCAL TRAFFIC TERMINATION RATES

A. Charges by BA

- (a) Traffic delivered to BA Access Tandem: \$.002902 per mou.
- (b) Traffic delivered directly to terminating BA End Office: \$.001864 per mou.

B. Charges by Fibernet

## 1. Single-tiered interconnection structure:

Fibernet's rates for the termination of BA's Local Traffic under the single-tiered interconnection structure shall be recalculated once each year on each anniversary of the Effective Date (the "Rate Determination Date"). The methodology for recalculating the rates is as follows:

*Access Tandem Minutes* = Total minutes of use of Local Traffic delivered by Fibernet to BA Access Tandem for most recent billed quarter.

*End Office Minutes* = Total minutes of use Local Traffic delivered by Fibernet directly to the terminating BA End Office for most recent billed quarter.

*Total Minutes* = Total minutes of use of Local Traffic delivered by Fibernet to BA for most recent billed quarter.

Fibernet Charge at the Fibernet-IP =

$$\frac{(\text{Access Tandem Minutes} \times \$0.002902) + (\text{End Office Minutes} \times \$0.001864)}{\text{Total Minutes}}$$

For the first year after the Effective Date, the Fibernet charge shall be calculated based on the traffic data of the quarter immediately preceding such Effective Date, or if no such traffic exists, on the proportion of local call termination trunks to BA End Offices and to BA Access Tandems.

## 2. Multiple-tiered interconnection structure (if offered by Fibernet to any carrier)

- (a) Local Traffic delivered to Fibernet Access Tandem: \$.002902
- (b) Local Traffic delivered to terminating Fibernet End Office/node: \$.001864

C. Miscellaneous Notes

1. The Fibernet termination rate under the single-tiered interconnection structure set forth above is intended to be a Local Traffic termination rate for Interconnection to the Fibernet-IP within each LATA that is reciprocal and equal to the actual rates that will be charged by BA to Fibernet under the two-tiered Local Traffic termination rate structure described above that will apply after the first anniversary of the Effective Date. The single Fibernet termination rate is also intended to provide financial incentives to Fibernet to deliver traffic directly to BA's terminating End Offices once Fibernet's traffic volumes reach an appropriate threshold.