1		BELLSOUTH TELECOMMUNICATIONS, INC.
2		DIRECT TESTIMONY OF WILEY (JERRY) G. LATHAM
3		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
4		DOCKET NO. 960786-TL
5		MAY 31, 2001
6		
7	Q.	PLEASE STATE YOUR NAME AND YOUR JOB RESPONSIBILITIES.
8		
9	Α.	My name is Jerry Latham. I am the Project Manager for Unbundled
10		Loops within the Interconnection Services unit of BellSouth
11		Telecommunications, Inc. ("BellSouth"). I am responsible for Product
12		Development and Product Management for unbundled loops and other
13		unbundled network elements in BellSouth's nine-state territory.
14		
15	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY?
16		
17	A.	The purpose of this testimony is to partially address Issue 5 by
18		explaining the nondiscriminatory processes and procedures through
19		which Competitive Local Exchange Companies (CLECs) pre-order and
20		order BellSouth's xDSL-capable (Digital Subscriber Line) loops. I will
21		identify the attributes of BellSouth xDSL-capable loops and describe
22		the process through which CLECs order and BellSouth provisions
23		xDSL-capable loops. I will also demonstrate that these processes
24		provide CLECs a meaningful opportunity to compete in the DSL market
25		place.

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DOCUMENT NUMBER-DATE

FPSC-RECORDS/REPORTING

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1	Issue 5: In Order PSC-97-1459-FOF-TL, issued November 19, 1997, the
2	Commission found that BellSouth met the requirements of Section
3	271 (c)(2)(B)(IV) of theTelecommunications Act of 1996. Does
4	BellSouth currently provide unbundled local loop transmission
5	between the central office and the customer's premises from local
6	switching or other services, pursuant to Section 271 (c)(2)(B)(IV) and
7	applicable rules and orders promulgated by the FCC?
8	(a) Does BellSouth currently provide all currently required forms
9	of unbundled loops?
10	(b) Has BellSouth satisfied other associated requirements, if
11	any, for this item?
12	
13	UNBUNDLED xDSL AND IDSL CAPABLE LOOPS
14	
15	Q. WOULD YOU GIVE A GENERAL DESCRIPTION OF THE VARIOUS
16	TYPES OF DSL LOOPS OFFERED BY BELLSOUTH?
17	
18	A. The viability of DSL services is dependent, in part, on the end user's
19	distance from his serving wire center (SWC), as well as the length,
20	gauge, and status of the copper that serves that customer. To
21	compensate for these parameters, BellSouth offers CLECs a variety of
22	unbundled loops that may support DSL services from the CLEC to its
23	end user customers. The loops are known as "ADSL ¹ Capable loop,"
24	
25	

¹ ADSL stands for Asymmetrical Digital Subscriber Loop.

1		"HDSL ² Capable loop," "ISDN loop," "Unbundled Digital Channel
2		(UDC)," "Unbundled Copper Loop (UCL), Short and Long" and
3		"Unbundled Copper Loop – Non Designed" (UCL-ND).
4		
5	Q.	WHICH OF THE XDSL LOOPS OFFERED BY BELLSOUTH ARE THE
6		MOST VERSATILE?
7		
8	A.	The most versatile of BellSouth's xDSL-capable loops are the
9		Unbundled Copper Loops-Short and Long ("UCL"). These loops were
10		designed to meet CLEC requests for a basic copper loop.
11		
12	Q.	PLEASE DESCRIBE THE UCL LOOPS OFFERED BY BELLSOUTH.
13	A.	<u>Unbundled Copper Loop (UCL) - Short</u> - The UCL-Short is a 2-wire or
14		4-wire loop that provides a non-loaded or "clean" copper pair to an end
15		user using the Resistance Design (RD) industry standard. Under the
16		RD standard, these loops may be up to18,000 feet long and may have
17		up to 6,000 feet of bridged tap ("BT") exclusive of the loop length. In
18		other words, a UCL-Short loop can be 18,000 feet long and have up to
19		6,000 feet of BT. BellSouth cannot guarantee that CLEC-provisioned
20		DSL service will function properly over the UCL-Short loop, as the
21		physical characteristics (length and BT) may be inconsistent with the
22		maximum distance for many DSL services and equipment. BellSouth
23		will, however, verify that these loops have no more than 1300 ohms of
24		
25	2 11001	etende for Llink Dit Date Digital Subscriber Line

² HDSL stands for High Bit Rate Digital Subscriber Line.

- resistance, electrical continuity, and balance relative to the tip-and-ring, 1 2 and will maintain them to these requirements.
- BellSouth developed the UCL-Short in direct response to CLEC 4 requests for an unbundled loop with the same specifications that 5 BellSouth uses for its own wholesale ADSL service. This loop meets 6 7 those criteria. The UCL-Short has been available to CLECs since the second guarter 2000. 8
- 9

3

- Unbundled Copper Loop (UCL) Long The UCL-Long is a 2-wire or 10 4-wire copper loop that is longer than 18,000 feet. This loop was 11 12 developed in response to CLEC requests, as well as the UNE Remand Order's directive that ILECs should provide xDSL-capable loops 13 wherever requested by the CLEC.³ Normal telephony standards 14 dictate that all copper loops exceeding 18,000 feet in length must be 15 loaded to properly service dial-tone or POTS type customers. 16 17 Therefore, in almost all cases, a CLEC seeking to provide functioning DSL service will need, in addition, to place an order for "loop 18 conditioning" - BellSouth's Unbundled Loop Modifications (ULM) 19 product - to remove the load coils and/or BT from these loops in order 20 to transform them into "dry" or "clean" copper loops. The CLEC would 21 22 pay the ULM costs separate from the cost of the loop itself. 23

24

³ In the Matter of Implementation of the Local Competition Provisions of the

25 Telecommunications Act of 1996, Third Report and Order and Fourth Notice of Proposed Rulemaking, Docket No. 96-98, 15 FCC Rcd 3696, at 3783-3784, ¶191 (1999).

1		By the end of April 2001, BellSouth had received orders for and
2		deployed 10,337 UCL Short and Long loops region-wide and 2,511 in
3		Florida.
4		
5	Q.	WHAT OTHER TYPES OF XDSL LOOPS ARE OFFERED BY
6		BELLSOUTH?
7		
8	A.	In addition to the UCL-Short and Long, BellSouth offers CLECs four
9		other xDSL-capable loops: ADSL-capable loop; HDSL-capable loop;
10		ISDN-capable loop; and Universal Digital Channel ("UDC") loop.
11		
12	Q.	CAN YOU BRIEFLY DESCRIBE THE HISTORY OF THE
13		DEVELOPMENT OF THESE OTHER TYPES OF LOOPS?
14		
15	Α.	Yes. BellSouth developed two of these xDSL-Capable loop offerings,
16		the HDSL-capable loop and the ADSL-capable loop, in direct response
17		to the FCC's Local Competition Order. That Order defined loops to
18		include "two-wire and four-wire analog voice-grade loops, and two-wire
19		and four-wire loops that are conditioned to transmit the digital signals
20		needed to provide services such as ADSL, HDSL and DS1-level
21		signals." ⁴
22		
23	Q.	PLEASE DESCRIBE THE HDSL AND ADSL LOOPS.
24		
~ -	4	

^{25 &}lt;sup>4</sup> Implementation of the Local Competition Provisions in the Telecommunications Act of 1996, First Report and Order, ¶ 380, 11 FCC Rcd 15499, ¶380 (1996).

2	Α.	<u>HDSL-Capable Loop</u> – For technological reasons, high-speed DSL
3		services work best on short, clean-copper loops. BellSouth's HDSL-
4		capable loop meets these requirements. BellSouth screens HDSL-
5		capable loops to ensure that they meet stringent industry standards for
6		Carrier Serving Area (CSA) transmission specifications to better
7		support DSL services. Under these strict technical standards, the end
8		user must be served by non-loaded copper and the loop typically
9		cannot be more than 12,000 feet long. If 26-gauge copper is used, the
10		limit is 9,000 feet or less. HDSL-Capable loops may have up to 2,500 ft
11		of BT, and 850 ohms or less of resistance.
12		
13		The HDSL-capable loop has been available to CLECs since fourth
14		quarter 1996. By the end of April 2001, BellSouth had deployed 457
15		HDSL-capable loops region-wide, of which 108 are in Florida.
16		
17		<u>ADSL-Capable Loops</u> – Originally, the ADSL loop offering was set to
18		the same CSA criteria as the HDSL-capable loop. In response to
19		CLEC requests, however, and with the establishment of industry
20		guidelines for loop types that support ADSL service, BellSouth modified
21		the design criteria for the ADSL-capable loop in the first quarter 2000 to
22		the Revised Resistance Design (RRD) standards. RRD standards
23		require a non-loaded copper loop, up to 18,000 feet in length, with up
24		to 6,000 ft of BT inclusive of loop length, and 1300 ohms or resistance.
25		"Inclusive of loop length" means that for every foot of BT, the loop

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length is reduced by an equal amount. Therefore, a RRD loop that has 1 2 4,000 ft of BT could be no longer than 14,000 ft. 3 This loop has been available to CLECs since fourth quarter 1996. By 4 the end of April 2001, BellSouth had provided CLECs 13,261 ADSL-5 capable loops region-wide, of which 4,525 are in Florida. 6 7 Q. PLEASE DESCRIBE HOW BELLSOUTH CAME TO DEVELOP THE 8 9 ISDN-CAPABLE AND UDC LOOPS. 10 Α. As with the ADSL and HDSL loops mentioned above, the ISDN-11 capable loop was developed in response to the release of the Local 12 Competition Order. However, as described below, the ISDN loop is not 13 14 always suitable for Integrated Digital Subscriber Line (IDSL) services. Therefore, the CLECs requested that BellSouth provide a loop that 15 could support the hybrid form of DSL service known as IDSL. In 16 response to these requests, BellSouth developed the UDC loop. 17 18 Q. PLEASE DESCRIBE THE ISDN-CAPABLE AND UDC LOOPS. 19 20 ISDN-Capable Loops - While not intended for xDSL use, ISDN-21 Α. 22 capable loops may be used to support the DSL service known as IDSL. 23 BellSouth provisions its ISDN-capable loops according to applicable 24 industry standards (i.e., ANSI), which means they may be provisioned over copper or via a Digital Loop Carrier (DLC) system. These loops 25

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are free of load coils, but are not referred to as "clean copper loops"
 because they may be provisioned via DLC systems that are completely

3 compatible with ISDN service, but not most xDSL services.

4

5 Q. PLEASE DESCRIBE UDC LOOPS.

6

7 Α. UDC Loops - As recognized by the FCC, not all ISDN loops are completely compatible with IDSL service. Because of this, BellSouth 8 developed the UDC loop, which was introduced on May 31, 2000. This 9 loop is identical to the ISDN loop, but is provisioned in a manner that 10 supports "data-only" ISDN, which will better meet the needs of CLECs 11 who want to deploy IDSL. This loop has been available to CLECs 12 since June 1, 2000. By the end of April 2001, BellSouth had provided 13 CLECs 6,988 UDC loops region-wide, of which 3,000 are in Florida. 14 15 IS BELLSOUTH DEVELOPING ANY OTHER TYPE OF XDSL LOOP? Q. 16 17 18 Α. Yes. At the request of CLECs, BellSouth has developed another xDSL-19 capable loop. This loop is known as the Unbundled Copper Loop – Non Designed (UCL-ND). It is a non-loaded copper loop that generally 20 has 1300 ohms or less of resistance and does not have a specific 21

length limitation. The length is driven by many factors but is generally

less than 18,000 feet long. This loop does not go through the "design"

process. Therefore, it does not have a remote access test point and
does not come standard with a Design Layout Record (DLR). This loop

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- was developed to respond to the CLECs' desire for an xDSL loop with
 a lower non-recurring cost.
- 3

4 Q. WHY DOES BELLSOUTH OFFER SO MANY TYPES OF XDSL

- 5 LOOPS?
- 6

To understand why BellSouth offers a variety of xDSL loops, one need 7 Α. 8 only review the history of xDSL-capable loops. BellSouth has developed this variety of xDSL loop types in direct response to CLEC 9 10 requests as well as the evolving scope of its obligations under 11 applicable FCC rules and regulations. As described above, BellSouth first developed the HDSL and ADSL-capable loops to comply with the 12 obligations stated in the Local Competition Order. Once developed, 13 14 these loops were included in CLEC interconnection agreements. In the months following the release of the Local Competition Order, BellSouth 15 developed several additional xDSL loop offerings at the request of 16 CLECs operating within BellSouth's region. Again, BellSouth's 17 obligation to provision these loops was memorialized in various 18 19 interconnection agreements. These continuing contractual obligations 20 for all of the loop types make it impossible for BellSouth to discontinue 21 any xDSL loop; rather, as BellSouth develops new product offerings, 22 BellSouth simply adds to the list of options from which the CLEC can 23 choose.

24

25

The benefit to the CLECs of this historical growth of offerings is that

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1		CLECs have a variety of loop types from which they can choose to best
2		meet their technical needs in providing telecommunications services to
3		its customers for the least cost. The fact that BellSouth offers different
4		loop types, however, does not in any way restrict a CLEC's ability to
5		offer any particular type of xDSL service it may desire over any loop in
6		BellSouth's network. Indeed, the only restrictions that limit a CLEC's
7		choice of DSL technologies are those established by industry standards
8		bodies to ensure the integrity of voice service.
9		
10	Q.	HAS BELLSOUTH ENTERED INTO INTERCONNECTION
11		AGREEMENTS WITH FACILITIES-BASED CLECS THROUGH
12		WHICH IT IS PROVIDING THESE XDSL CAPABLE LOOPS?
13		
14	A.	Yes. BellSouth has entered into interconnection agreements with
15		facilities-based carriers in Florida to provide each of the loops
16		described above, with the exception of the UCL-ND, which is currently
17		being negotiated with several CLECs. See e.g. Interconnection
18		Agreement between BellSouth and Covad, approved by the Florida
19		Commission on February 18, 1999, Att. 2.
20		
21	Q.	WHERE CAN YOU FIND MORE INFORMATION ON THESE TYPES
22		OF LOOPS?
23		
24	Α.	Additional information about all of BellSouth's xDSL loops can be
25		viewed in Exhibits 1 through 5 to my testimony and on BellSouth's

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1		internet web site at:
2		"www.interconnection.bellsouth.com/products/unes.html".
3		
4	Q.	CAN YOU SUMMARIZE THE TYPES OF AVAILABLE LOOPS AND
5		THEIR CHARACTERISTICS?
6		
7	A.	Yes. The HDSL capable loop (using CSA standards) will provide clean
8		copper pairs to customers up to 12,000 feet from the Central Office
9		(CO).
10		
11		
12		
13		The ADSL capable loop (using RRD standards) and the UCL-Short
14		(using RD standards) will provide clean copper pairs to customers up to
15		18,000 feet from the CO (using different criteria for BT).
16		
17		The UCL-Long, in conjunction with the ULM conditioning product,
18		allows CLECs to serve customers beyond 18,000 feet from the CO
19		using clean copper pairs.
20		
21		The ISDN and UDC capable loops will give the CLEC the option of
22		providing IDSL service to any customer even if that customer does not
23		have clean copper pairs available at their address.
24		
25		

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LOOP TYPE	UDL – HDSL	UDL – ADSL	UCL Short	UCL Long	UCL - ND	ISDN/UDC
Max loop length	12 kft	18 kft	18 kft	Unlimited	Undefined (generally	18 kft (Copper No limit (DLC
, engui					18kft)	
Max total bridge tap	2.5 kft inclusive	6 kft inclusive	6 kft exclusive	12 kft exclusive	6 kft exclusive	6 kft inclusive
bridge tap						
Longest single Bridge tap	2.0 kft	6 kft	6 kft	6 kft	6 kft	6 kft
Max	850	1300	1300	2800	1300	1300 (copper
Resistance in Ohms						
Max Loss (per 73600)	35db@100KHz	42db@40KHz	46db@40KHz	N/A	Varies (Similar to UCL–Short)	42db@40KH;
Service Inquiry Reguired	Yes	Yes	Yes	Yes	No	No
Number of wires	2 or 4 wire	2 wire	2 or 4 wire	2 or 4 wire	2 wire	2 wire
L						

12 The chart above shows the technical specifications for each of 13 BellSouth's xDSL-capable loops. BellSouth developed each of these 14 loops, to the extent possible, in accordance with industry standard 15 physical characteristics and specifications. Application of these 16 standards allows BellSouth to provision, maintain and repair these 17 loops efficiently while retaining network integrity for all of BellSouth's 18 services, including non-DSL services. If, however, a CLEC wants other, 19 non-standard loop types, BellSouth will work cooperatively with the 20 CLEC to develop these through our interconnection agreement 21 negotiation sessions (as we have done for the UCL-Short) or through 22 the Bona Fide Request (BFR) process.

23

24 PRE-ORDERING OF XDSL-CAPABLE LOOPS

25

1 Q. WOULD YOU PLEASE DEFINE AND DESCRIBE LOOP MAKE-UP2 INFORMATION?

3

"Loop make-up information" ("LMU") refers to the detailed information Α. 4 5 regarding a given loop's physical characteristics that an interested CLEC can use to determine the feasibility of provisioning xDSL service 6 7 to a particular end user customer. This information includes: loop 8 length, wire gauge, loop medium (copper or fiber), and information regarding any bridged tap, load coil, or repeaters present on the loop. 9 10 Through the manual processes discussed in this testimony, BellSouth provides CLECs access to all of the loop makeup information available 11 12 to BellSouth personnel.

13

BellSouth has developed a loop qualification process that enables a 14 CLEC to access loop make-up information via manual or electronic 15 interfaces. Manual loop qualification is available when BellSouth's 16 17 electronic records do not have LMU about a particular loop. With this 18 information in hand, CLECs can determine whether and what type of xDSL service can be provisioned over the loop facilities that serve their 19 prospective customers. The process for providing loop make-up 20 21 information on a manual basis is described below.

22

23 Q. WHAT IS THE PROCESS FOR OBTAINING LOOP MAKE-UP24 INFORMATION MANUALLY?

25

-13-

Α. 1 The manual loop make-up process is as follows: the CLEC initiates the 2 manual loop make-up process by submitting a request for loop makeup information either to its account team (AT) or the Complex Resale 3 Support Group (CRSG). A copy of the form provided to CLECs for 4 their use in ordering is attached as Exhibit 4 to my Testimony. The 5 CRSG/AT forwards the request to the appropriate Service Advocacy 6 7 Center (SAC) depending upon the end user's address. The SAC will physically look through BellSouth's Central Office (CO) records to 8 9 gather the loop make-up information. The SAC sends the loop make-10 up information, which includes information such as the length and 11 gauge of cable, number of load coils (LC), and the length and gauge of 12 BT, back to the CRSG/AT. The CRSG/AT sends the loop make-up information to the CLEC, who is then in a position to determine 13 14 whether, and what type of, xDSL services it can offer over the available facilities. 15

16

17 If the CLEC makes the decision to provide service using the facility but 18 needs to have the loop conditioned, it can use BellSouth's Unbundled Loop Modification (ULM) process in order to modify any existing loop to 19 20 be compatible with each CLEC's particular hardware requirements. 21 The ULM process conditions the loop by the removal of any devices 22 that may diminish the capability of the loop to deliver high-speed 23 switched wireline capability, including xDSL service. Such devices include, but are not limited to load coils, bridged taps, low pass filters, 24 25 and range extenders. The ULM offering provides for removal of

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		a subment on loops equal to or loop then 19,000 fast, as well as loops
1		equipment on loops equal to or less than 18,000 feet, as well as loops
2		that are longer than 18,000 feet. These devices are placed on copper
3		loops to enhance the voice characteristics when provided on long
4		copper facilities or to otherwise comply with standards for other
5		services such as PBX trunks. The CLEC may select the level of line
6		conditioning it desires and will be required to pay only for the level of
7		conditioning it selects. BellSouth will provide line conditioning on a
8		CLEC request for unbundled loops, whether or not BellSouth offers
9		advanced services to the end-user customer on that loop. BellSouth
10		has established cost-based rates for the ULM offering.
11		
12		
13		
14	ORD	ERING OF XDSL-CAPABLE LOOPS
14 15	<u>ORDI</u>	ERING OF XDSL-CAPABLE LOOPS
	<u>ORDI</u> Q.	ERING OF XDSL-CAPABLE LOOPS PLEASE DESCRIBE THE MANUAL AND ELECTRONIC ORDERING
15		
15 16		PLEASE DESCRIBE THE MANUAL AND ELECTRONIC ORDERING
15 16 17	Q.	PLEASE DESCRIBE THE MANUAL AND ELECTRONIC ORDERING
15 16 17 18	Q.	PLEASE DESCRIBE THE MANUAL AND ELECTRONIC ORDERING PROCESSES FOR XDSL CAPABLE LOOPS.
15 16 17 18 19	Q.	PLEASE DESCRIBE THE MANUAL AND ELECTRONIC ORDERING PROCESSES FOR XDSL CAPABLE LOOPS. The manual ordering process for xDSL and IDSL capable loops is
15 16 17 18 19 20	Q.	PLEASE DESCRIBE THE MANUAL AND ELECTRONIC ORDERING PROCESSES FOR XDSL CAPABLE LOOPS. The manual ordering process for xDSL and IDSL capable loops is virtually identical to the manual ordering processes and procedures for
15 16 17 18 19 20 21	Q.	PLEASE DESCRIBE THE MANUAL AND ELECTRONIC ORDERING PROCESSES FOR XDSL CAPABLE LOOPS. The manual ordering process for xDSL and IDSL capable loops is virtually identical to the manual ordering processes and procedures for
15 16 17 18 19 20 21 22	Q.	PLEASE DESCRIBE THE MANUAL AND ELECTRONIC ORDERING PROCESSES FOR XDSL CAPABLE LOOPS. The manual ordering process for xDSL and IDSL capable loops is virtually identical to the manual ordering processes and procedures for other loop types.
15 16 17 18 19 20 21 22 23	Q.	PLEASE DESCRIBE THE MANUAL AND ELECTRONIC ORDERING PROCESSES FOR XDSL CAPABLE LOOPS. The manual ordering process for xDSL and IDSL capable loops is virtually identical to the manual ordering processes and procedures for other loop types. BellSouth's electronic pre-ordering and ordering interfaces have been

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1		UCLs.
2		
3	PRO	/ISIONING AND TESTING OF XDSL-CAPABLE LOOPS
4		
5	Q.	WHAT INTERVALS HAVE BEEN ESTABLISHED FOR THE
6		PROVISIONING OF XDSL CAPABLE LOOPS?
7		
8	A.	BellSouth has established intervals for the provisioning of DSL loops
9		and supporting services. The provisioning interval for the xDSL loop is
10		7 business days. The interval for manual Loop-Make Up is 3 business
11		days.
12		
13		
14		Due to the widely varied configurations for loop deployment, BellSouth
15		has established target intervals for loop conditioning on the following
16		basis:
17		Removal of 1 – 3 intervening devices
18		Aerial Plant = 10 days
19		Buried Plant = 15 days.
20		Underground Plant = 30 days
21		
22	Q.	WHAT TYPES OF TESTING ARE PERFORMED ON UNE LOOPS,
23		INCLUDING XDSL CAPABLE LOOPS?
24		
25	A.	During the installation of UNE loops, BellSouth performs tests

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necessary to ensure that the loop being provisioned meets the
specifications for the loop type ordered by the CLEC. In addition,
BellSouth has agreed to provide Additional Cooperative Acceptance
Testing. This cooperative testing provides the CLECs with a means to
test loops beyond those tests that BellSouth normally performs during
the provisioning process.

7

8 In addition, through the negotiation of interconnection agreements, 9 BellSouth and the CLECs have established joint provisioning 10 procedures for xDSL loops. See Interconnection Agreement between 11 BellSouth and Covad, approved by the Florida Commission February 18, 1999, Att. 2, § 2. These joint procedures allow BellSouth 12 and the CLEC to be actively involved in the testing and provisioning of 13 14 UNE loops throughout the provisioning process. This helps ensure that the circuit works properly for the CLEC's intended service from the first 15 day that the circuit is activated to the end user. 16

17

So far as it is technically feasible, BellSouth will perform a broad range
of tests on conditioned loops for all of the line's features, functions and
capabilities, and does not limit its testing to voice-grade tests.

21

22 SPECTRUM MANAGEMENT

- 23
- 24 Q. PLEASE DESCRIBE SPECTRUM MANAGEMENT.
- 25

1 Α. CLECs are free to provide any telecommunications service they choose on any unbundled loop, as long as that service does not negatively 2 impact other services and providers. BellSouth's TR73600 document 3 and other industry standards for Power Spectral Density masks, once 4 established, will help control these negative impacts and allow multiple 5 carriers' services to co-exist harmoniously. BellSouth provides CLECs 6 access to TR73600 via BellSouth's internet website. It should be 7 noted, however, that BellSouth cannot be expected to guarantee a 8 CLEC's service will work on loops not intended for a particular service. 9 For example, a CLEC may order a voice-grade loop and attempt to put 10 some type of high-speed data service on that loop. If that service 11 12 works (without disrupting other services), then all is well. If not, BellSouth can only maintain and repair the circuit as a voice-grade line 13 (i.e., the type of loop ordered). Of course, the CLEC would have the 14 option to replace the voice grade line with an xDSL-capable loop, and 15 could use the ULM product to condition the loop to support the CLEC's 16 17 chosen service.

18

Currently, efforts are underway at the national level to adopt standards that minimize the potential for interference when loops adjacent to one another in a binder group are used to provide divergent technologies (*e.g.*, ADSL and HDSL). National standards bodies are working towards establishing industry consensus on how best to accommodate xDSL-based services on a wireline network originally designed to carry voice transmissions. BellSouth strongly supports this effort and is

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1		involved in the national standards bodies working on these issues.
2		
3	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?
4		
5	Α.	Yes.
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EXHIBIT WGL-1

i

BellSouth Unbundled Digital Loops

BellSouth Unbundled Digital Loops

Service Description

The UDL will be a dedicated digital transmission facility from BST's MDF to a customer's premises. This facility will allow the end user to send and receive traffic that utilize technologies liike ISDN; Enhanced Electronic (EE) capabilities such as HDSL/ADSL; and high capacity services such as DS-1 when the loop is connected to the proper packet/circuit switch. This facility will include a Network Interface Device (NID) at the customer's location for the purpose of connecting the loop to the customer's inside wire. The UDLs can be configured as 2-wire ISDN (2W/I); 2-wire UDC (2W/UDC); 2-wire ADSL-capable; 4wire DS1 & ISDN (4W/DI); 2-wire HDSL capable; 4-wire HDSL capable facilities & 4wire DS0 level loops. It should be noted that on the xDSL-capable loops that BST does not provide the Enhanced Electronics such as the DSLAM.

Features and Benefits

UDL will be a designed circuit and BST will provide a Design Layout Record (DLR). BST will issue a Firm Order Confirmation ("FOC") within 48 hours after receipt of the valid LSR and a DLR to the ordering party within 5 business days after the FOC, upon review of and in response to the ordering party's LSR, to begin the provisioning process.

BST will perform these repair functions during normal work hours (e.g. 8 am to 5 pm local time). If the CLEC requests that BST repair a trouble after normal working hours, the CLEC will be billed the appropriate overtime charges associated with this type request. For all UDLs, except the 2W-UDC, BST will perform order coordination (OC) activities associated with an existing circuit that requires a coordinated conversion. In these cases, BST will coordinate the "turn-up" of the new circuit; the use of Remote Call Forwarding (if needed); and disconnect orders in order to minimize the disruption of an existing circuit. BST will not perform these activities on new circuits that do not require a coordinated conversion.

Performance Standards

Digital Loops may be provided via metallic facilities, DLC, or both. The insertion loss of the metallic facility, measured at 28 kHz between 135 ohm terminations, shall be less than 40 db.

The UDL-4W/D0 is offered in three performance levels: 19.2K and below; 56K and 64K. The CLEC must specify on the LSR which type of 4W/D0 that is to be utilized so that the loop criteria can be properly aligned with the intended service.

The interface at the CLEC is a 4-wire interface, described as a DSOA interface in Bellcore TA-TSY-000077, Digital Channel Banks- Requirements for Dataport Channel Unit Functions.

Basic Rate Access ISDN and UDC loops may be provided via metallic facilities, DLC, or both. The insertion loss of the metallic facility, measured at 40 kHz, shall be less than 42 db. No dc specifications are supported. ISDN loops provisioned via copper will support IDSL service, however, some ISDN loops provisioned via DLC will not. Therefore, if the CLEC wants to ensure IDSL service, the UDC loop must be ordered to ensure proper configuration when DLCs are employed.

UDC loops are ISDN loops that are configured for data only applications such as IDSL, etc.. They may be provisioned over copper, and in some cases may be provisioned through a DLC system.

BST will ensure that UDC loops are provisioned on compatible slots within DLC systems to ensure data compatibility. UDC loops are intended to support a CLEC's IDSL service but is not guaranteed to do so.

The interface at both the CLEC and the Network Interface is a 2W interface as defined in ANSI T1.601-1992, ISDN Basic Access Interface for use on Metallic Loops for Applications on the Network Side of the NT.

Asymmetric Digital Subscriber Line (ADSL) Metallic Interface is a 2W-ADSL (sometimes called a 2W-EE) consisting of metallic facilities only. These facilities will be provided with no DLC, load coils or repeaters. These loops will conform to the RRD guidelines as described in Committee T1 Technical Report No. 28 Bit Rate performance on theses loops are dependent upon the Customer Premises Equipment (CPE), therefore, BST does not guarantee a particular bit rate associated with these loops.

High-bit rate Digital Subscriber Lines (HDSL) is a transport technology that can be either 2 or 4 wire circuits and are ordered as 2W/HDSL or 4W/HDSL (sometimes called 2W-EE or 4W-EE). The loop facility consists of only metallic facilities and will be provisioned according to CSA guidelines as described in Committee T1 Technical Report No. 28. These loops typically will be less than 9000 feet in length (including no more than 2,500 ft. of bridged tap/end section). Bit Rate performance on theses loops are dependent upon the Customer Premises Equipment (CPE), therefore, BST does not guarantee a particular bit rate associated with these loops.

The signal applied at either interface shall meet the following specifications:

- The average signal power shall not exceed +15.0 dBm across 100 Ω.
- The Power Spectral Density shall not exceed -38 dBm/Hz from 0 Hz to 196 kHz, -89 dB/decade attenuation from -38 dBm/Hz at 196 kHz to -118 dBm/Hz at 1.96 MHz, and -118 dBm/Hz above 1.96 MHz. This requirement shall be met when measured with a 100 Ω termination.

The HDSL loop facilities consist of only metallic facilities meeting CSA design guidelines as documented in Committee T1 Technical Report No. 28. The dc resistance of a single wire pair should not exceed 850 Ω .

Ordering Process

UDL are ordered via an LSR, which is issued through the LCSC.

Where facilities are available, BST will install 1 to 5 UDLs, except 2W-ISDN and 2W-UDC, within a 5-7 business days interval. The 2W-ISDN and 2W-UDC loops will have a 12 business day provisioning interval (for 1 to 5 loops) to accommodate for their unique needs such as the appropriate DLC plugs.

For more information regarding this product, please contact your account team representative

EXHIBIT WGL-2

1

Unbundled Asymmetrical Digital Subscriber Line (ADSL) Compatible Loop

And

Unbundled High Bit Rate Digital Subscriber Line (HDSL) Compatible Loop

CLEC Information Package

BellSouth Unbundled ADSL/HDSL Compatible Loops

Unbundled Asymmetrical Digital Subscriber Line (ADSL) Compatible Loop

and

Unbundled High-Bit-Rate Digital Subscriber Line (HDSL) Compatible Loop

> CLEC Information Package

> > (Version 4)

BellSouth Interconnection Services Your Interconnection AdvantageSM

BellSouth Unbundled ADSL/HDSL Compatible Loops

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BellSouth Unbundled ADSL/HDSL Compatible Loops

Introduction & Scope

This Product Information Package is intended to provide to CLECs a product description and general ordering information specific to the UNE described herein. Detailed ordering guidelines are provided in documents located on the BellSouth Interconnection Web site.

The information contained in this document is subject to change. BellSouth will provide notification of changes to the document through the CLEC Notification Process.

Please contact your BellSouth Account Manager, if you have any questions about the information contained herein.

BellSouth Unbundled ADSL/HDSL Compatible Loops

Revisions

Version 4

- 1) Page 1 "Version 4" replaces "Version 3".
- 2) Footnote on each page date changed from "8/25/00" to "10/13/00" and "Version 3" changed to "Version 4".
- 3) Service Order Requirements section LSR form sub-section:
 - Added "Project" under the LSR Field
 - Under the "Information Required" column added "If Unbundled Loop Modification is ordered, populate with the following:
 - ULMLC for Load Coil removal
 - ULMBT for Bridge Tap removal
 - ULMBTLC for Load Coil and Bridge Tap removal"

Version 3

- 1) Page 1 "Version 3" replaces "Version 2".
- 2) Footnote on each page date changed from 7/25/00 to 8/25/00 and Version 2 changed to Version 3.
- 3) Service Capabilities section, first paragraph, second sentence replaced "DLSAM" with "DSLAM".
- Technical Requirements section, ADSL compatible loop sub-section, first paragraph, second sentence – reference to Committee T1 Technical Report No. 28 changed to Bellcore SR-TSV-002275.
- 5) Network Configuration section replaced "BST" with "BellSouth".
- 6) Service Order Requirements section:
 - LSR form sub-section first paragraph, deleted Ordering and Billing Forum (OBF) guidelines reference and replace with BellSouth Ordering Guide for CLECs (Local Service Ordering Guidelines, version 2 (LSOGv2)) or the BellSouth Business Rules for Local Ordering (Local Service Ordering Guidelines, version 4 (LSOGv4)).
 - LSR form sub-section first paragraph, deleted last sentence
 - Service Inquiry (SI) form sub-section added first sentence "A Service Inquiry is required, dependent on the ordering scenarios described in the Ordering & Provisioning

BellSouth Unbundled ADSL/HDSL Compatible Loops

section, for ordering an ADSL/HDSL compatible loop."

- 7) Service Inquiry Form added "click here to download" under the heading Service Inquiry Form which allows the CLEC to download the SI to a usable format for CLEC preparation.
- 8) Added an Acronyms section.

BellSouth Unbundled ADSL/HDSL Compatible Loops

Revisions (continued)

Version 2

- 1) The version 1 Ordering and Provisioning section was replaced with a new Ordering and Provisioning section that contains three ordering scenarios.
- 2) The Rate Elements and USOCs section was updated to reflect description changes in the existing elements and to add new elements:

Old Element	New Description/Element
2 Wire Unbundled ADSL Compatible Loop	2 Wire Unbundled ADSL compatible loop, includes manual service inquiry and facility reservation
NA	2 Wire Unbundled ADSL compatible loop, without manual service inquiry and facility reservation
2 Wire Unbundled HDSL Compatible Loop	2 Wire Unbundled HDSL compatible loop, includes manual service inquiry and facility reservation
NA	2 Wire Unbundled HDSL compatible loop, without manual service inquiry and facility reservation
4 Wire Unbundled HDSL Compatible Loop	4 Wire Unbundled HDSL compatible loop, includes manual service inquiry and facility reservation
NA	4 Wire Unbundled HDSL compatible loop, without manual service inquiry and facility reservation

 In the Service Order Requirements section, additional clarification provided on "NCI at CLEC" codes format and a note added for 4 Wire HDSL;

> "0" is a numeric zero character Orders for 4 Wire HDSL must include two CLEC cable and pairs on the LSR

4) Old Service Inquiry (SI) Form (revised: 2/29/00) and SI Preparation replaced with new Service Inquiry (revised: 7/21/00) and Instructions for Preparing Service Inquiry.

BellSouth Unbundled ADSL/HDSL Compatible Loops

Service Description

The Unbundled Asymmetrical Digital Subscriber Line (ADSL) or the High Bit Rate Digital Subscriber Line (HDSL) compatible loop is a dedicated digital transmission facility from BellSouth's Main Distribution Frame (MDF) to an end-user's premises. These loops will allow the end user to send and receive traffic that utilize the Enhanced Electronic (EE) capabilities for HDSL or ADSL when the loop is connected to the CLEC's appropriate equipment. The loop facility will include a Network Interface Device (NID) or equivalent demarcation point at the end-user's location for the purpose of connecting the loop to the customer's inside wire.

BellSouth offers the following:

2 Wire ADSL compatible loop 2 Wire HDSL compatible loop 4 Wire HDSL compatible loop

Service Capabilities

BellSouth will only provide the loop facilities with these offerings. BellSouth does not provide the Enhanced Electronics such as the Digital Subscriber Line Access Multiplexer (DSLAM) or any other electronics with the unbundled ADSL or HDSL compatible loops.

The ADSL/HDSL compatible loops will be designed circuits and are provisioned with test points. BellSouth will provide a Design Layout Record (DLR).

BellSouth will perform installation testing (other than switch-based) that is needed to ensure the loop meets the specifications of BellSouth's Technical Reference 73600 (TR73600).

BellSouth will perform order coordination (OC) activities associated with Number Portability and/or disconnect orders. OC is intended to convert an existing customer to a new local service provider using the ADSL/HDSL compatible loops in a manner that minimizes the end-user's dial-tone interruption. BellSouth will notify the CLEC of the appropriate conversion time and will then perform the work within the negotiated interval.

If the CLEC requests work after normal working hours, overtime rates will apply for work outside of 8:00 a.m. to 5:00 p.m. local time.

If the CLEC's end user has existing service with BellSouth that utilizes a digital quality loop, and wants to change local service providers, BellSouth will attempt to reuse the end user's existing loop.

BellSouth Unbundled ADSL/HDSL Compatible Loops

Technical Requirements

ADSL compatible loop

The ADSL compatible loop is a two wire metallic facility only. If the loop is available, it will be provided with no Digital Loop Carrier (DLC), load coils or repeaters. These loops will conform to the Revised Resistance Design (RRD) guidelines for non-loaded facilities as described in Bellcore SR-TSV-002275. The loop facility will consist of a loop 18kft or less which may include 6kft of bridge tap with a resistance of 1300 ohms or less if the loop is available.

Where the loop facility does not meet ADSL compatible loop specifications and it is determined that the loop can be modified to meet these specifications, the CLEC may request BellSouth's Unbundled Loop Modification (ULM). In these situations and as a chargeable option, BellSouth will use the ULM process to modify the loop facility to ADSL compatible loop specifications. Additionally, the ULM product can be utilized to remove any bridged tap sections as requested by the CLEC. The rates for ULM are in addition to the ADSL loop rate.

BellSouth does not guarantee a particular bit rate associated with these loops. The transmission and bit rate speed of ADSL type services is dependent on the CLEC's equipment.

ADSL compatible loops will meet the parameters specified in BellSouth TR73600.

HDSL compatible loop

High-bit rate Digital Subscriber Line (HDSL) is a transport technology that can utilize a 2 or 4 Wire circuit. The HDSL compatible loop can be ordered as a 2 Wire or 4 Wire HDSL compatible loop. The loop facility consists of only metallic facilities and will be provisioned according to CSA guidelines as described in Committee T1 Technical Report No. 28. These loops include no more than 2500 feet of bridge tap/end section with a resistance of 850 ohms or less.

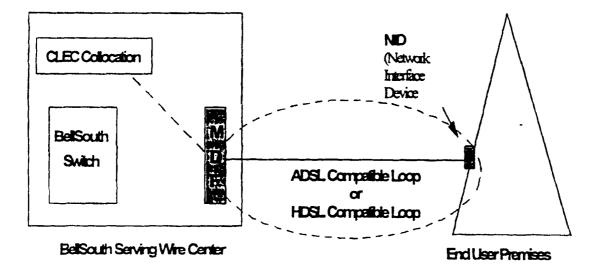
Where the loop facility does not meet HDSL compatible loop specifications and it is determined that the loop can be modified to meet these specifications, the CLEC may request BellSouth's ULM. In these situations and as a chargeable option, BellSouth will use the ULM process to modify the loop facility to HDSL compatible loop specifications. Additionally, the ULM product can be utilized to remove any bridged tap sections that are requested by the CLEC. The rates for ULM are in addition to the HDSL loop rate.

BellSouth does not guarantee a particular bit rate associated with these loops. The bit rate speed is dependent upon the CLEC's equipment.

HDSL compatible loops will meet the parameters specified in BellSouth TR73600.

BellSouth Unbundled ADSL/HDSL Compatible Loops

Network Configuration



BellSouth Unbundled ADSL/HDSL Compatible Loops

Ordering & Provisioning

This section will describe ordering scenarios available to the CLEC for ADSL or HDSL compatible loop ordering. It is important to note that it is now possible for a CLEC to obtain Loop Make-up (LMU) prior to placing an order for an ADSL or HDSL loop. This option will be referred to as "prior LMU".

There is a key distinction in the "with prior LMU" and the "without prior LMU" scenario. "With prior LMU" indicates that LMU was ordered and obtained by the CLEC prior to placing the ADSL or HDSL loop order; whereas "without prior LMU" indicates that the LMU look-up and facility reservation function will be handled as part of the loop ordering process. Lastly, Service Inquiry (SI) forms for LMU are distinct and separate from the SI forms required in the submission of a CLEC's ADSL or HDSL loop service order.

The LMU with Facility Reservation Number (FRN) option enables the CLEC to receive LMU and reserve a loop facility. This allows the CLEC a limited time span (4 days) to place an ADSL or HDSL loop order using the pre-order LMU. For additional detail regarding the LMU/FRN process, refer to the LMU Product Package.

If a prior LMU/FRN is obtained, the CLEC may use the FRN facility once it later submits a Local Service Request (LSR) to order an ADSL or HDSL loop. However, it should be noted that the specific loop type (ADSL or HDSL) ordered on the LSR must match the specifications of the facility for which prior LMU/FRN has been requested. BellSouth will use best efforts to assign the reserved facility on which the CLEC has obtained the FRN. If the loop type the CLEC has ordered on the LSR form does not match the reserved facility, the provisioning system will not use the reserved facility. Instead, the provisioning system will automatically override the FRN and attempt to assign a facility that does match the specifications of the loop type ordered. For information regarding the technical specifications refer to the Technical Requirements section of this document or to the BellSouth TR73600.

The sub-sections on the following pages describe the various ordering scenarios:

BellSouth Unbundled ADSL/HDSL Compatible Loops

Ordering & Provisioning (continued)

Loop Order with prior Loop Make-Up (LMU) and Facility Reservation Number (FRN)

The CLEC in this scenario would have requested a LMU with FRN prior to placing an order for the ADSL or HDSL compatible loop. In this scenario the CLEC does not require and is not ordering Unbundled Loop Modification (ULM) on requested loop facility. The non-recurring rate for the loop in this scenario <u>excludes</u> the cost of the manual service inquiry LMU and FRN since the CLEC has previously paid for the LMU with FRN.

Steps

- 1. CLEC requests and receives LMU/FRN through the LMU process.
- 2. CLEC prepares and sends a Local Service Request (LSR) form w/FRN to the Local Carrier Service Center (LCSC). CLEC must specify the loop type (ADSL or HDSL) on the LSR.
- 3. Once a complete and correct LSR has been processed, the LCSC will forward a Firm Order Confirmation (FOC) to the CLEC.
- 4. The requested loop type will be provisioned through the ordering and provisioning systems according to the targeted intervals stated in the Interval section.

Loop Order with prior LMU & FRN and with Unbundled Loop Modification (ULM)

This scenario is for an ADSL or HDSL compatible loop for which the CLEC is requesting *ULM*. The CLEC would have also requested a LMU with FRN prior to requesting the loop with ULM. The non-recurring rate for the loop in this scenario <u>excludes</u> the cost of the manual service inquiry LMU and FRN since the CLEC has previously paid for the LMU with FRN. Rates for ULM will be charged to the CLEC as separate rate elements.

Steps

- 1. CLEC requests and receives LMU/FRN through the LMU process.
- 2. CLEC prepares a firm order Service Inquiry (SI) and <u>must specify</u> the loop type, the required modifications and the FRN of the facility which requires modification.
- 3. CLEC prepares the LSR for the requested loop type with FRN.
- 4. CLEC sends the SI and LSR to its BellSouth CRSG/Account Team Representative.
- 5. CRSG/Account Team Representative holds the LSR and sends the SI to Outside Plant Engineering (OSPE).
- 6. OSPE issues an engineering job for the requested ULMs and determines an estimated completion date (ECD) for completing the modifications.
- 7. OSPE forwards the SI with ULM ECD to the CRSG/Account Team Representative.

BellSouth Unbundled ADSL/HDSL Compatible Loops

Ordering & Provisioning (continued)

- 8. CRSG/Account Team Representative notifies the CLEC of the ULM ECD.
- 9. When ULM is complete, OPSE notifies the CRSG/Account Team Representative who in turn notifies the CLEC.
- 10. CRSG/Account Team Representative forwards the SI and the LSR to the LCSC.
- 11. If the LSR is complete and correct the LCSC will process the order for the loop, bill the ULM and issue an FOC to the CLEC.
- 12. The requested loop type will be provisioned through the ordering & provisioning systems according to the targeted intervals stated in the Interval section of this document.

Loop Order without prior LMU & FRN

This scenario is for an ADSL or HDSL compatible loop and the CLEC has not requested prior LMU & FRN. The non-recurring rate for the loop in this scenario will include the cost of the manual service inquiry and FRN.

Steps

- 1. CLEC prepares a firm order SI and LSR for a specific loop type (ADSL or HDSL).
- 2. CLEC sends the SI and LSR to its BellSouth CRSG/Account Team Representative.
- 3. CRSG/Account Team Representative holds the LSR and sends the SI to Outside Plant Engineering (OSPE).
- 4. If the requested loop type facility is available, OSPE completes the SI with the FRN facility and sends the SI back to the CRSG/Account Team Representative. (proceed to step 10)
- 5. If the requested loop facility is not available but can be provided with modifications, OSPE will indicate on the SI that the facility is not available but could be provided with a job for Unbundled Loop Modification (ULM). OSPE will return the SI to the CRSG/Account Team Representative. (proceed to step 7)
- 6. If the requested loop type facility is not available and cannot be provided with modifications, refer to the Note below.
- The CRSG/Account Team Representative forwards the SI to the CLEC for the CLEC's approval for Unbundled Loop Modification (ULM). CLEC will indicate its approval for ULM by placing a check (✓) for ULM-LC and ULM-BT on the SI and then return the SI to CRSG/Account Team Representative.
- 8. The SI is returned to OSPE who will initiate a job for Unbundled Loop Modification. OSPE will provide the job number and estimated completion date (ECD) on the SI and return the SI to the CRSG/Account team.

BellSouth Unbundled ADSL/HDSL Compatible Loops

Ordering & Provisioning (continued)

- The OSPE job will do the loop modifications necessary to bring the loop facility to design standards for the requested loop type. The job will also include a FRN for the facility to be modified if the pair being modified is a spare pair.
- 10. Once the job is complete, OSPE will send the completed SI with job completion date to the CRSG/Account Team Representative.
- 11. CRSG/Account Team Representative forwards the SI & LSR to the LCSC.
- 12. If the LSR is complete and correct, the LCSC will process the order and issue an FOC to the CLEC.
- 13. The requested loop type will be provisioned through the ordering & provisioning systems according to the targeted intervals stated in the Interval section of this document.

Note: There may be several reasons for the unavailability of compatible facilities for the loop type being ordered by the CLEC. The OSPE will indicate which reason applies on the Service Inquiry (SI). Below is a brief synopsis of those reasons. For additional information regarding possible options to remedy the "facility unavailable" situation, please contact your BellSouth CRSG/Account Team Representative.

- Facilities are out of range OSPE will indicate why the loop is out of range and cannot be provided on the SI. If the facility would qualify for a different loop type, the possible loop type will also be indicated. The SI will be returned to the CRSG/Account Team Representative to advise the CLEC.
- No compatible facilities/available by a job OSPE indicates that the facilities will be made available by a job and Special Construction (SC) is not applicable. The SI will be returned to the CRSG/Account Team Representative to advise the CLEC. The SI will state an estimated completion date (ECD). The job will be completed before the service orders are issued.
- No compatible facilities/available w/SC OSPE indicates that the facilities could be made available by a job and Special Construction (SC) is applicable. OSPE will describe the SC work in the comments section of the SI. The SI will be returned to the CRSG/Account Team Representative to advise the CLEC. CLEC can then make the decision whether or not to pursue the SC process. If the CLEC decides to move forward with the SC process, the CLEC will be responsible for costs associated with BellSouth providing the quote and for the costs of implementing the SC job.
- No compatible facilities/available with LST/CDP OPSE indicates that the facilities may be
 made available through Line and Station Transfers (LSTs) or by clearing a defective pair (CDP).
 OSPE will include remarks in the "comments" section of the SI that the facilities are not
 immediately available but an attempt will be made to make facilities available via cuts (LSTs) or
 CDP. The SI will be returned to the CRSG/Account Team Representative to advise the CLEC.

BELLSOUTH

BellSouth Unbundled ADSL/HDSL Compatible Loops

Service Order Requirements

Local Service Request (LSR) form

The CLEC will complete a Local Service Request (LSR) form according to the **BellSouth** Ordering Guide for CLECs (Local Service Ordering Guidelines, version 2 (LSOGv2)) or the **BellSouth Business Rules for Local Ordering** (Local Service Ordering Guidelines, version 4 (LSOGv4)).

LSR Field Information Required NC NCI* at CLEC Loop Type SEC NCI * at End User LXR-2 Wire ADSL 02QB9.00A 02DU9.00A NC/NCI 2 Wire HDSL LXC-02QB9.00H 02DU9.00H 4 Wire HDSL** LXC-04QB9.00H 04DU9.00H RMKS FRN (if Loop Make-up and FRN ordered prior to placing loop order) If Unbundled Loop Modification is ordered, populate with the following" Project ULMLC – for Load Coil removal

ULMBT – for Bridge Tap removal

The following information that is unique to ADSL/HDSL is also required on the LSR:

* "0" is a numeric zero character

** Orders for 4 Wire HDSL must include two CLEC cable and pairs on the LSR.

ULMBTLC – for Load Coil and Bridge Tap removal

Service Inquiry (SI) form

A Service Inquiry is required, dependent on the ordering scenarios described in the Ordering & Provisioning section, for ordering an ADSL/HDSL compatible loop. See attached "Service Inquiry" and "Instructions for Preparing Service Inquiry" section for preparation instructions.

LSR & SI Transmittal

- CLEC sends the firm order SI and a LSR to a CRSG/Account Team Representative.
- The primary method of submission to the CRSG is through email. Refer to "Guidelines for Interfacing with the CRSG UNE Group" section for the submission requirements.
- CLEC should contact its BellSouth Account Team Representative for additional information
 regarding transmittal of SI and LSR if CRSG Representative is not known.

Rate Elements & USOCs

Rates for ADSL and HDSL compatible loops will need to be included in your contract. Rates may be interim and subject to true-up pending approval of final rates by the respective State Commissions. Commission orders will specify the dates back to which true-ups are applicable.

Rate Element	USOC
2 Wire Unbundled ADSL compatible loop, includes manual service inquiry and facility reservation	UAL2X
2 Wire Unbundled ADSL compatible loop, without manual service inquiry and facility reservation	UAL2W
2 Wire Unbundled HDSL compatible loop, includes manual service inquiry and facility reservation	UHL2X
2 Wire Unbundled HDSL compatible loop, without manual service inquiry and facility reservation	UHL2W
4 Wire Unbundled HDSL compatible loop, includes manual service inquiry and facility reservation	UHL4X
4 Wire Unbundled HDSL compatible loop, without manual service inquiry and facility reservation	UHL4W
Order Coordination - Time Specific (per order)	OCOSL

Other Non-Recurring Charges

Expedite Charge - applies if CLEC requests order interval of less than five days.

Manual Service Order - applies if order is manually submitted and electronic ordering is available

Order Cancellation – applies if the CLEC cancels an order. This charge is for work associated with provisioning . either ADSL or HDSL loop pairs at the time the CLEC cancels an order.

Service Order Modification Charge – Applies if the CLEC modifies a service order after the Firm Order Confirmation has been issued.

Overtime Charge - Applies for work requested outside of normal working hours.

Time & Material - Applies for dispatch out if "no trouble found"

Intervals

Where facilities are available and after any ULM request and/or SI process has been completed, it is expected that BellSouth will provision these loops after the receipt of an accurate LSR and SI within the following targeted intervals:

Loops	Intervals	FOC
1-5 Loops	7 business days	2 business days
6-14 Loops	10 business days	3 business days
15 + Loops	Handled on a project basis, intervals to be negotiated	

Maintenance & Repair Procedures

The CLEC is responsible for testing and pre-screening any trouble conditions to make sure the trouble is with ADSL/HDSL compatible loop pair before calling BellSouth. If the CLEC's testing isolates the repair problem to BellSouth's unbundled loop, the CLEC should notify the Unbundled Network Element (UNE) Center. The target interval for maintenance resolution is 24 hours from the time the trouble is reported to the UNE center.

The CLEC must provide the following information to UNE Center when reporting a repair problem:

- ADSL/HDSL pair Circuit ID
- Description of the trouble

If BellSouth dispatches a technician on a CLEC reported trouble call and no ADSL /HDSL loop trouble is found, BellSouth will charge the CLEC for time spent on the dispatch and for time spent testing the ADSL or HDSL compatible loop.

Contract Specific Provisions

Before any ADSL/HDSL compatible loop can be ordered, the CLEC must have an Interconnection Agreement that includes terms, conditions and rates for each loop type that is being requested. This agreement must be in effect for all states where the CLEC plans to order these unbundled loops.

The information contained herein applies to the ADSL/HDSL compatible loop general offering and is part the standard BellSouth agreement. The general offering is in accordance with BellSouth policies, procedures and regulatory obligations as well as the Standard Interconnection Agreement.

The general offering does not address specific contract issues within a CLEC's Interconnection Agreement that may be different from the general offering. Where specific contract issues differ from the information provided here, the contract provisions will prevail for the term of the specific CLEC Interconnection Agreement. Otherwise, the general offering provisions will apply.

Service	Inquiry

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	pplicable.	iodifications to pairs	previously reserved.	CSPE win respond with	number #3	Delow, possibly v	
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2.	NO CANN cannot be j		heck here if facilities a	re out of design range or	in an arca	where copper pair	s are not available and
3.	NOT AV	ailable but can be	e provided with a jo	b, no special constru	ction.	Job Number:	
	What is th	 ne expected comp	letion date (ECD): _				
4.				b, special construction	on is appl	icable.4	
5.	Faciliti	es are not immedi	ately available, will	supply by one of the f	ollowing:	CDP	LST
			Comments section		2		
purs con	vide a description of the w sue a quote of SC charges itain a detailed description quote.	s. If the CLEC agree	s to the SC quote billin	ig conditions, OSPE will	return an "/	Authorization Lette	er" which will

Comments (describe work required on job, exceptions, etc	с.)
-********************************	
Prepared by (Facility Engineer)	Telephone Number

Return to Negotiator within 2 working days. Call negotiator if any delay is expected or incurred. Revised 07-21-00

Service	Inquiry	(continued)	i -

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Return to Negotiator within 2 working days. Call negotiator if any delay is expected or incurred. Revised 07-21-00

Instructions for Preparing Service Inquiry

Below are the fields of information the CLEC must provide when preparing the ADSL/HDSL Service Inquiry (SI). Unless otherwise noted, there are no restrictions regarding length of fields or alpha/numeric makeup of required information.

General Information

- SI# (PON Number)
- Check () if Firm Order, Change or Cancel
- Negotiator Name (BellSouth CRSG/Account Team Representative)
- Negotiator's Tel Number

Customer Information

- CLEC Company Name
- Service Address**
- Customer Contact/Telephone number (CLEC contact)
- Local Serving Central Office (eight character CLLI for Central Office)
- Number of Lines requested
- Due Date/Requested Service Date
 **NOTE: End user's full and complete mailing service address, which would include any dept/floor/suite/room/apartment number, as well as, the U.S. postal zip code

CLEC Loop Request

- Check (✓) if a conversion
- Existing Telephone Number/Circuit ID provide if conversion is checked
- Check (✓) each loop type requested. If multiple loops are requested, fill out one "CLEC Loop Request" section for each loop requested. Check ULM-LC if removal of load coils is requested.
- Check (✓) ULM-BT if removal of bridged tap is requested (BellSouth will remove BT(s) to meet ADSL or HDSL specifications; or the CLEC may request a specific BT removal by can indicating the specific BTs to be removed in the Comments section.)

Instructions for Preparing Service Inquiry (continued)

Below is information provided by BellSouth on the SI:

Customer Information

CRSG/Account Team Representative will fill out the Special Construction (SC) fields (if necessary) depending on SC action decided by the CLEC.

Outside Plant Engineering Facility (OSPE) Reservation Pass

If facilities are available, OSPE will check (\checkmark) off item one (1) in this section and populate (FRN) (if the CLEC has not provided FRN previously obtained from Loop Make-Up request).

If facilities are not available, OSPE will check () appropriate item number.

If facilities are not available but can be provided with Unbundled Loop Modification (ULM), OSPE will check (\checkmark) item number 3 and provide an estimated completion date. OSPE will indicate ULM is required and provide an FRN in the **Comments** section. (SI will be returned to the CRSG/Acct. Team for the CLEC to approve ULM)

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BellSouth Unbundled ADSL/HDSL Compatible Loops

Guidelines for Interfacing with the CRSG UNE Group

For Email Transactions

- In order to serve customers as efficiently as possible, the CLEC should communicate with the CRSG UNE Group via email, whenever possible. New orders, CLEC initiated corrections, and clarification responses should be submitted via email.
- The CRSG UNE Group email address is crsg.une@bridge.bellsouth.com.
- When submitting the request via email, submit only 1 PON (SI & LSR) per mail message
- Use the following guidelines in formatting the email subject header:

PON 12345 UNE NEW	for a new UNE order
PON 12345 LSOD NEW	new Line Share Splitter request
PON 12345 CORRECTION	for a CLEC initiated correction or update
PON 12345 CLARIFICATION RESPONSE	for a clarification response
PON 12345 STATUS	for a status request

For Facsimile Transactions

- Requests submitted via facsimile should be sent to 800-365-8108
- The following guidelines should be used for requests submitted via facsimile:
 - The request must be type written
 - A transmittal cover page must be used
 - The transmittal cover should include
 - PON Number(s)
 - Total number of pages transmitted
 - Contact information

Acronyms

ADSL	Asymmetrical Digital Subscriber Line
CDP	Clear Defective Pair
CLEC	Competitive Local Exchange Carrier
CLLI	Common Language Location Identifier
CRSG	Complex Resale Support Group
DLC	Digital Loop Carrier
DLR	Design Layout Record
DSLAM	Digital Subscriber Line Access Multiplexer
ECD	Estimated Completion Date
EE	Enhanced Electronic
FOC	Firm Order Confirmation
FRN	Facility Reservation Number
HDSL	High Bit Rate Digital Subscriber Line
ID	Identification
LCSC	Local Carrier Service Center
LMU	Loop Make-up
LSOGv2	Local Service Ordering Guidelines version 2
LSOGv4	Local Service Ordering Guidelines version 4
LSR	Local Service Request
LST	Line & Station Transfer
MDF	Main Distribution Frame
NC	Network Channel
NCI	Network Channel Interface
NID	Network Interface Device
OBF	Ordering & Billing Forum
00	Order Coordination
OSPE	Outside Plant Engineering
PON	Purchase Order Number
RRD	Revised Resistance Design
SC	Special Construction
SECNCI	Secondary Network Channel Interface

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BellSouth Unbundled ADSL/HDSL Compatible Loops

Acronyms (continued)

SI	Service Inquiry
TR73600	Technical Reference 73600
UCL/L	Unbundled Copper Loop/Long
UCL/S	Unbundled Copper Loop/Short
ULM	Unbundled Loop Modification
ULM-BT	Bridged Tap
ULM-LC	Load Coil
UNE	Unbundled Network Element
USOC	Universal Service Order Code

EXHIBIT WGL-3

BellSouth Unbundled Copper Loop

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Unbundled Copper Loop

CLEC Information Package

(Version 3)

BellSouth Interconnection Services Your Interconnection AdvantageSM

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BellSouth Unbundled Copper Loop

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Introduction & Scope

This Product Information Package is intended to provide to CLECs a product description and general ordering information specific to the UNE described herein. Detailed ordering guidelines are provided in documents located on the BellSouth Interconnection Web site.

The information contained in this document is subject to change. BellSouth will provide notification of changes to the document through the CLEC Notification Process.

Please contact your BellSouth Account Manager, if you have any questions about the information contained herein.

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BellSouth Unbundled Copper Loop

Revisions

Version 3

- 1) Page 1 "Version 3" replaces "Version 2".
- Footnote on each page date changed from "8/25/00" to "10/13/00" and "Version 2" changed to "Version 3".
- 3) Service Order Requirements section LSR form sub-section:
 - Added "Project" under the LSR Field
 - Under the "Information Required" column added "If Unbundled Loop Modification is ordered, populate with the following:
 - ULMLC for Load Coil removal
 - ULMBT for Bridge Tap removal
 - ULMBTLC for Load Coil and Bridge Tap removal"

Version 2

- 1. Page 1 added "Version 2".
- 2. Footnote on each page date changed from 3/10/00 to 8/25/00. Deleted "UCLpkg.doc" and added "Version 2".
- 3. The version 1 Ordering and Provisioning and Service Inquiry (SI) Process sections were replaced with a new Ordering and Provisioning section that contains three ordering scenarios.

4. Service Order Requirements section:

- LSR form sub-section In first paragraph, deleted Ordering and Billing Forum (OBF) guidelines reference and replace with "BellSouth Ordering Guide for CLECs (LSOGv2) or the BellSouth Business Rules for Local Ordering (LSOGv4))".
- LSR form sub-section In first paragraph, deleted last sentence.
- LSR form sub-section second paragraph, added clarification for "NCI at CLEC" and "SEC NCI at End User" codes format:
 - "0" is a numeric zero character
 - ** "O" is an alpha (letter O)
- LSR form sub-section second paragraph, under LSR Field, added additional field "RMKS". Under Information Required, added "FRN (if Loop Make-up and FRN ordered prior to placing loop order)".
- 5. Rate Elements and USOCs section -- updated to reflect description changes in the existing elements and to add new elements:

Old Element	New Description/Element	USOC
2 Wire Unbundled	2 Wire UCL/S, < 18kft, includes manual service inquiry and facility	
Copper Loop/S, ≤ 18kft	reservation	UCLPB
NA	2 Wire UCL/S, < 18kft, without manual service inquiry and facility reservation	UCLPW
4 Wire Unbundled Copper Loop/S, <u><</u> 18kft	4 Wire UCL/S, < 18kft, includes manual service inquiry and facility reservation	UCL4S
NA	4 Wire UCL/S, < 18kft, without manual service inquiry and facility reservation	UCL4W
2 Wire Unbundled Copper Loop/L. > 18kft	2 Wire UCL/L, > 18kft, includes manual service inquiry and facility reservation	UCL2L
NA	2 Wire UCL/L, > 18kft, <u>without</u> manual service inquiry and facility reservation	UCL2W
4 Wire Unbundled Copper Loop/L, > 18kft	4 Wire UCL/L, > 18kft, includes manual service inquiry and facility reservation	UCL4L
NA	4 Wire UCL/L, > 18kft, <u>without</u> manual service inquiry and facility reservation	UCL4O

Revisions (continued)

- 6. Service Inquiry (SI) Form (revised: 2/29/00) and SI Preparation replaced with new Service Inquiry (revised: 7/21/00) and Instructions for Preparing Service Inquiry.
- 7. Added an Acronyms section

Service Description

The Unbundled Copper Loop is a dedicated metallic transmission facility from BellSouth's Main Distribution Frame (MDF) to a customer's premises. This loop is commonly referred to as a "dry copper" loop because it does not have any intervening equipment such as load coils, repeaters, etc., between the end user premises and the Serving Wire Center (SWC). BellSouth offers 2 & 4 Wire UCL/S (Short) and 2 & 4 Wire UCL/L (Long). The UCL/S is any Resistance Design (RD) copper loop that is less than or equal to 18 kilofeet (kft). The UCL/L will be any copper loop that is longer than 18kft.

These loops are not intended to support any particular service and may be utilized by the CLEC to provide a wide-range of telecommunications services so long as those services do not adversely effect BellSouth's network. This facility will include a Network Interface Device (NID) or equivalent demarcation point at the end-user's customer's location for the purpose of connecting the loop to the customer's inside wire.

Service Capabilities

BellSouth will only provide the loop facilities with these offerings.

UCL loops will be designed circuits and are provisioned with test points. BellSouth will provide a Design Layout Record (DLR).

BellSouth will perform installation testing (other than switch-based) that is needed to ensure the loop meets the specifications of BellSouth's TR73600.

At the CLEC's option and for an additional charge, BellSouth will perform order coordination (OC) activities associated with Number Portability and/or disconnect orders. OC is intended to convert an existing customer to a new local service provider using the UCL in a manner that minimizes the end-user's dial-tone interruption. BellSouth will notify the CLEC of the appropriate conversion time and will then perform the work within the negotiated interval.

If the CLEC requests work after normal working hours, overtime rates will apply for work outside of 8:00 a.m. to 5:00 p.m. local time

If the CLEC's end user has existing service with BellSouth that utilizes a compatible copper loop, and wants to change local service providers, BellSouth will attempt to reuse the end user's existing loop.

Technical Requirements

The UCL/S will be a Resistance Design (RD) loop of 1300 ohms or less and will consist of nonloaded copper with a total length of 18 kft or less. In addition, up to 6 kft of bridged tap may be included on the loop facility.

The UCL/L is a loop of up to 2800 ohms and will consist of non-loaded copper with a total length greater than 18 kft. In addition, up to 12 kft of bridged tap may be included on the loop facility. All copper loops longer than 18kft within BellSouth's network typically will have load coils or other intervening equipment. Therefore, the CLEC may have to request Unbundled Loop Modification (ULM).

For a CLEC requested loop facility that does not meet UCL specifications and it is determined that the loop can be modified to meet these specifications, the CLEC may request that BellSouth's **Unbundled Loop Modification (ULM)**. In these situations and as a chargeable option, BellSouth will use the ULM process to modify the requested loop facility to UCL specifications. Additionally, the ULM product must be utilized to remove any bridged tap sections that are requested by the CLEC. The rates for ULM are in addition to the UCL rate.

BellSouth will only ensure that the UCL has electrical continuity and provides balance relative to tip and ring.

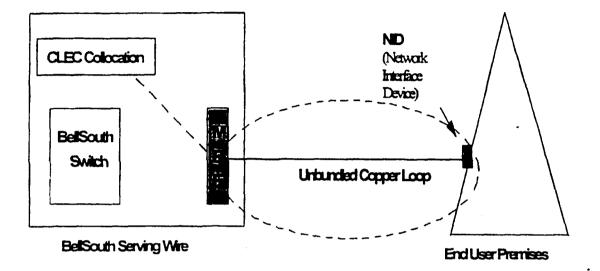
These loops are not designed or intended to provide any particular service. The loop may be attached to a variety of equipment both at the CLEC's collocation space and the end user premises. BellSouth does not guarantee a particular bit rate associated with these loops.

UCL will meet the parameters specified in Technical Reference (TR) 73600.

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BellSouth Unbundled Copper Loop

Network Configuration



Ordering & Provisioning

This section will describe ordering scenarios available to the CLEC for UCL ordering. It is important to note that it is now possible for a CLEC to obtain Loop Make-up (LMU) prior to placing an order for a UCL. This option will be referred to as "prior LMU".

There is a key distinction in the "with prior LMU" and the "without prior LMU" scenario. "With prior LMU" indicates that LMU was ordered and obtained by the CLEC prior to placing the UCL order; whereas "without prior LMU" indicates that the LMU look-up and facility reservation function will be handled *as part of* the loop ordering process. Lastly, Service Inquiry (SI) forms for LMU are distinct and separate from the SI forms required in the submission of a CLEC's UCL service order.

The LMU with Facility Reservation Number (FRN) option enables the CLEC to receive LMU and reserve a loop facility. This allows the CLEC a limited time span (4 days) to place an UCL order using the pre-order LMU. For additional detail regarding the LMU/FRN process, refer to the LMU Product Package.

If a prior LMU/FRN is obtained, the CLEC may use the FRN facility once it later submits a Local Service Request (LSR) to order a UCL. However, it should be noted that the specific loop type ordered on the LSR must match the specifications of the facility for which prior LMU/FRN has been requested. BellSouth will use best efforts to assign the reserved facility on which the CLEC has obtained the FRN. If the loop type the CLEC has ordered on the LSR form does not match the reserved facility, the provisioning system will not use the reserved facility. Instead, the provisioning system will automatically override the FRN and attempt to assign a facility that does match the specifications of the loop type ordered. For information regarding the technical specifications refer to the Technical Requirements section of this document or to the BellSouth TR73600.

The sub-sections on the following pages describe the various ordering scenarios:

Ordering & Provisioning (continued)

Loop Order with prior Loop Make-Up (LMU) and Facility Reservation Number (FRN)

The CLEC in this scenario would have requested a LMU with FRN prior to placing an order for the UCL. In this scenario the CLEC does not require and is not ordering Unbundled Loop Modification (ULM) on the requested loop facility. The non-recurring rate for the UCL in this scenario <u>excludes</u> the cost of the manual service inquiry LMU and FRN since the CLEC has previously paid for the LMU with FRN.

Steps

- 1. CLEC requests and receives LMU/FRN through the LMU process.
- 2. CLEC prepares and sends a Local Service Request (LSR) form w/FRN to the Local Carrier Service Center (LCSC). CLEC must specify UCL on the LSR.
- 3. Once a complete and correct LSR has been processed, the LCSC will forward a Firm Order Confirmation (FOC) to the CLEC.
- 4. The requested loop type will be provisioned through the ordering and provisioning systems according to the targeted intervals stated in the Interval section.

Loop Order with prior LMU & FRN and with Unbundled Loop Modification (ULM)

This scenario is for a UCL for which the CLEC is requesting *ULM*. The CLEC would have also requested a LMU with FRN prior to requesting the loop with ULM. The non-recurring rate for the loop in this scenario <u>excludes</u> the cost of the manual service inquiry LMU and FRN since the CLEC has previously paid for the LMU with FRN. Rates for ULM will be charged to the CLEC as separate rate elements.

Steps

- 1. CLEC requests and receives LMU/FRN through the LMU process.
- 2. CLEC prepares a firm order Service Inquiry (SI) and <u>must specify</u> UCL, the required modifications and the FRN of the facility which requires modification.
- 3. CLEC prepares the LSR for the requested loop type with FRN.
- 4. CLEC sends the SI and LSR to its BellSouth CRSG/Account Team Representative.
- 5. CRSG/Account Team Representative holds the LSR and sends the SI to Outside Plant Engineering (OSPE).
- 6. OSPE issues an engineering job for the requested Alms and determines an estimated completion date (ECD) for completing the modifications.
- 7. OSPE forwards the SI with ULM ECD to the CRSG/Account Team Representative.

Ordering & Provisioning (continued)

- 8. CRSG/Account Team Representative notifies the CLEC of the ULM ECD.
- 9. When ULM is complete, OPSE notifies the CRSG/Account Team Representative who in turn notifies the CLEC.
- 10. CRSG/Account Team Representative forwards the SI and the LSR to the LCSC.
- 11. If the LSR is complete and correct the LCSC will process the order for the loop, bill the ULM and issue an FOC to the CLEC.
- 12. The requested loop type will be provisioned through the ordering & provisioning systems according to the targeted intervals stated in the Interval section of this document.

Loop Order without prior LMU & FRN

This scenario is for a UCL and the CLEC has not requested prior LMU & FRN. The non-recurring rate for the loop in this scenario will include the cost of the manual service inquiry and FRN.

Steps

- 1. CLEC prepares a firm order SI and LSR for a UCL.
- 2. CLEC sends the SI and LSR to its BellSouth CRSG/Account Team Representative.
- 3. CRSG/Account Team Representative holds the LSR and sends the SI to Outside Plant Engineering (OSPE).
- 4. If thy UCL facility is available, OSPE completes the SI with the FRN facility and sends the SI back to the CRSG/Account Team Representative. (proceed to step 10)
- 5. If the UCL facility is not available but can be provided with modifications, OSPE will indicate on the SI that the facility is not available but could be provided with a job for Unbundled Loop Modification (ULM). OSPE will return the SI to the CRSG/Account Team Representative. (proceed to step 7)
- 6. If the requested loop type facility is not available and cannot be provided with modifications, refer to the Note below.
- The CRSG/Account Team Representative forwards the SI to the CLEC for the CLEC's approval for Unbundled Loop Modification (ULM). CLEC will indicate its approval for ULM by placing a check (✓) for ULM-LC and ULM-BT on the SI and then return the SI to CRSG/Account Team Representative.
- 8. The SI is returned to OSPE who will initiate a job for Unbundled Loop Modification. OSPE will provide the job number and estimated completion date (ECD) on the SI and return the SI to the CRSG/Account team.

Ordering & Provisioning (continued)

- 9. The OSPE job will do the loop modifications necessary to bring the loop facility to design standards for a UCL. The job will also include a FRN for the facility to be modified if the pair being modified is a spare pair.
- 10. Once the job is complete, OSPE will send the completed SI with job completion date to the CRSG/Account Team Representative.
- 11. CRSG/Account Team Representative forwards the SI & LSR to the LCSC.
- 12. If the LSR is complete and correct, the LCSC will process the order and issue an FOC to the CLEC.
- 13. The UCL will be provisioned through the ordering & provisioning systems according to the targeted intervals stated in the Interval section of this document.

Note: There may be several reasons for the unavailability of compatible facilities for the loop type being ordered by the CLEC. The OSPE will indicate which reason applies on the Service Inquiry (SI). Below is a brief synopsis of those reasons. For additional information regarding possible options to remedy the "facility unavailable" situation, please contact your BellSouth CRSG/Account Team Representative.

- Facilities are out of range OSPE will indicate why the loop is out of range and cannot be provided on the SI. If the facility would qualify for a different loop type, the possible loop type will also be indicated. The SI will be returned to the CRSG/Account Team Representative to advise the CLEC.
- No compatible facilities/available by a job OSPE indicates that the facilities will be made available by a job and Special Construction (SC) is not applicable. The SI will be returned to the CRSG/Account Team Representative to advise the CLEC. The SI will state an estimated completion date (ECD). The job will be completed before the service orders are issued.
- No compatible facilities/available w/SC OSPE indicates that the facilities could be made available by a job and Special Construction (SC) is applicable. OSPE will describe the SC work in the comments section of the SI. The SI will be returned to the CRSG/Account Team Representative to advise the CLEC. CLEC can then make the decision whether or not to pursue the SC process. If the CLEC decides to move forward with the SC process, the CLEC will be responsible for costs associated with BellSouth providing the quote and for the costs of implementing the SC job.
- No compatible facilities/available with LST/CDP OPSE indicates that the facilities may be
 made available through Line and Station Transfers (LSTs) or by clearing a defective pair (CDP).
 OSPE will include remarks in the "comments" section of the SI that the facilities are not
 immediately available but an attempt will be made to make facilities available via cuts (LSTs) or
 CDP. The SI will be returned to the CRSG/Account Team Representative to advise the CLEC.

Service Order Requirements

Local Service Request (LSR) form

The CLEC will complete a Local Service Request (LSR) form according to the **BellSouth Ordering Guide for CLECs** (LSOGv2) or the **BellSouth Business Rules for Local Ordering** (LSOGv4).

LSR Field	Information Required						
	Loop Туре	NC	NCI at CLEC*	SEC NCI at End User*			
	2 Wire UCL/S (≤ 18 kft)	LX-N	02QC3.OOF	02NO2			
NC/NCI	4 Wire UCL/S (≤ 18 kft)	LX-N	04QC3.OOF	04NO2			
	2 Wire UCL/L (> 18 kft)	LX-	02QC3.OOF	02NO2			
	4 Wire UCL/L (> 18 kft)	LX-	04QC3.00F	04NO2			
RMKS	FRN (if Loop Make-up and F	RN ordered	prior to placing lo	oop order)			
Project	 If Unbundled Loop Modification is ordered, populate with the following: ULMLC - for Load Coil removal ULMBT - for Bridge Tap removal ULMBTLC - for Load Coil and Bridge Tap removal 						

The following information that is unique to UCL is also required on the LSR:

* "0" is a numeric zero character

• "O" is an alpha (letter O)

Service Inquiry (SI) form

A Service Inquiry is required, dependent on the ordering scenarios described in the Ordering & Provisioning section, for ordering a UCL. See attached "Service Inquiry" and "Instructions for Preparing Service Inquiry" section for preparation instructions.

LSR & SI Transmittal

- CLEC sends the firm order SI and a LSR to a CRSG/Account Team Representative.
- The primary method of submission to the CRSG is through email. Refer to "Guidelines for Interfacing with the CRSG UNE Group" section for the submission requirements.
- CLEC should contact its BellSouth Account Team Representative for additional information regarding transmittal of SI and LSR if CRSG Representative is not known.

Rate Elements & USOCs

Rates for UCLs will need to be included in your contract. Rates may be interim and subject to trueup pending approval of final rates by the respective State Commissions. Commission orders will specify the dates back to which true-ups are applicable.

Rate Element	USOC
2 Wire UCL/S < 18kft, includes manual service inquiry and facility reservation	UCLPB
2 Wire UCL/S < 18kft, without manual service inquiry and facility reservation	UCLPW
4 Wire UCL/S < 18kft, includes manual service inquiry and facility reservation	UCL4S
4 Wire UCL/S < 18kft, without manual service inquiry and facility reservation	UCL4W
2 Wire UCL/L > 18kft, includes manual service inquiry and facility reservation	UCL2L
2 Wire UCL/L > 18kft, without manual service inquiry and facility reservation	UCL2W
4 Wire UCL/L > 18kft, includes manual service inquiry and facility reservation	UCL4L
4 Wire UCL/L > 18kft, without manual service inquiry and facility reservation	UCL40
Order Coordination (per loop)	UCLMC

Other Non-Recurring Charges

Manual Service Order -- applies if order is manually submitted and electronic ordering is available.

Order Cancellation – applies if the CLEC cancels an order. This charge is for work associated with provisioning UCL pairs at the time the CLEC cancels an order.

Service Order Modification Charge - applies if the CLEC modifies a service order after the Firm Order Confirmation has been issued.

Overtime Charge - applies for work requested outside of normal working hours.

Time & Material - applies for dispatch out if "no trouble found"

Intervals

Where facilities are available and after any ULM request and/or SI process has been completed, it is expected that BellSouth will provision these loops after the receipt of an accurate LSR and SI within the following targeted intervals:

Loops	Intervals	FOC	
1-5 Loops	7 business days	2 business days	
6-14 Loops 10 business days		3 business days	
15 + Loops	Handled on a project basis, intervals to be negotiated		

Maintenance & Repair Procedures

The CLEC is responsible for testing and pre-screening any trouble conditions to make sure the trouble is with the UCL pair before calling BellSouth. If the CLEC's testing isolates the repair problem to BellSouth's unbundled loop, the CLEC should notify the Unbundled Network Element (UNE) Center. The target interval for maintenance resolution is 24 hours from the time the trouble is reported to the UNE center.

The CLEC must provide the following information to UNE Center when reporting a repair problem:

- UCL pair Circuit ID
- Description of the trouble

If BellSouth dispatches a technician on a CLEC reported trouble call and no UCL trouble is found, BellSouth will charge the CLEC for time spent on the dispatch and for time spent testing the UCL.

Contract Specific Provisions

Before any UCL loop can be ordered, the CLEC must have an Interconnection Agreement that includes terms, conditions and rates for each loop type that is being requested. This agreement must be in effect for all states where the CLEC plans to order these unbundled loops.

The information contained herein applies to the UCL general offering and is part the standard BellSouth agreement. The general offering is in accordance with BellSouth policies, procedures and regulatory obligations as well as the Standard Interconnection Agreement.

The general offering does not address specific contract issues within a CLEC's Interconnection Agreement that may be different from the general offering. Where specific contract issues differ from the information provided here, the contract provisions will prevail for the term of the specific CLEC Interconnection Agreement. Otherwise, the general offering provisions will apply.

Genera	al Information:					
		-			UCL Service Inquir	•
	SI # (PON Nurr	n.)			Change	
			Negotiato	r	ی چه بند می به هر چه به به می بند که ^ر ام به می خوا	
С	RSG EMAIL ADD	RESS: (CRSG UNE/r	m5.mail5a) Negotiato	r Telephone Numbe	er	
Custon	mer Information:					
			Cu:	stomer Contact/Tele	ephone number	
	ce Address		Loc	al Serving Central (Office	
				mber of lines reque		
			Du	e Date/Requested S	Service Date	
			_			
	the CLEC agree to	team/CRSG should SC SC quote billing? _		will prepare SC quo	te)NO (OSPE will	take no further
Date (CLEC contacted a	bout SC quote billing	9:		out and return to CRSG when E	
8 4.)						
<u>ک</u>			استبيب فكمعنيا كوبين ببويج المالي	لويسبعا الأبيني ونويبا ويتباد	Use Page 2 of SI for this pur	posé.
	• •				cated Loop Modifications:	
	Check here if	this is a conversion	of existing service. E	xisting Telephone N	Number:	
		Provide this loop	Provide ULM-LC ²	Provide ULM-BT ²	Existing CLEC FRNs ³	
	UDL-2W/ADSL					
	UDL-2W/HDSL		·· <u>·····</u>			
	UDL-4W/HDSL					
	UCL/S-2W					
	UCL/S-4W UCL/L-2W					
	UCL/L-4W				***	
in " pre ³ The	necking off ULM-LC w TR73600. The CLEC eviously supplied via e CLEC will provide	C may request that spec manual or mechanized the FRNs previously ob	cific bridged taps be remo d process to indicate wh btained for loops to be m	oved in the "Comments ich taps to remove. iodified. Four wire loop	o bring the loop to loop spe s" section. The CLEC can u ps will have two FRNs. If t	ise the makeup his field is filled in the
ap	plicable			<u></u>	number #3 below, possibly	y with #4 if SC is
	_		tion Pass: One of the f			
1.				=		
-						
2.		be provided.	Theck here if facilities ar	e out of design range o	or in an area where copper p	airs are not available a
3.	NOT	Available but can b	e provided with a job	, no special constr	uction. Job Numbe	er.
	What	is the expected comp	pletion date (ECD):			
4.	NOT	Available but can b	e provided with a job	, special construct	ion is applicable. ⁴	
5.	Fac	ilities are not immed	diately available, will s	supply by one of the	following:CDP	LST
	(Lis	t facilities involved in	n Comments section i	f available)		
purs cont	ue a quote of SC cha	arges. If the CLEC agre	ees to the SC quote billin	g conditions, OSPE wi	nformation to determine if th ill return an "Authorization Lo val and job number will be s	atter" which will

Comments (describe work required on job, exceptions, etc.)	
Prepared by (Facility Engineer)	Telephone Number

Return to Negotiator within 2 working days. Call negotiator if any delay is expected or incurred. Revised 07-21-00

General Information:				Page 2 d	of 2
U	DL-2W/ADSL, UD	L-2W/HDSL, UD	L-4W/HDSL or	UCL Service Inquiry	
SI # (PON Num	n.)		Firm Order	Change	Cancel
		Negotiato	r	د بنه هه که بين هي نوب بنه که که که يك بني در ه ده متعد آن که که م	
	· · · · · · · · · · · · · · · · · · ·	_		er	
				cated Loop Modifications:	
Check here if	this is a conversion o		-	umber:	سو میں اللہ اللہ کے ہیں ہے۔ جات ہارہ خانے ہیں ہے
	Provide this loop	Provide ULM-LC ²	Provide ULM-BT ²	Existing CLEC FRNs ³	
UDL-2W/ADSL					
UDL-2W/HDSL					
UDL-4W/HDSL					
UCL/S-2W UCL/S-4W				·····	
UCL/L-2W			چې نزاد هند يوې چې هغ کا او دي پي هند هه دن هم		
UCL/L-4W		****	میں ہیں ہو، میں خو کا اور برنے کے بی کر اور میں ہے۔		
	EC requests the follow	ing loops to the above	address with the Indi	cated Loop Modifications:	
• • •				lumber:	
	Provide this loop			Existing CLEC FRNs ³	
UDL-2W/ADSL					
UDL-2W/HDSL	والا عند في جد عند حد 20 10 مور مد مي جو	ها ها در بری به می کار ور ها راد ها. ها ها در بری با می می کار ها	~	ین کو جو بر بر بر بر بر بر بر بر می برد می برد مع بر	
UDL-4W/HDSL					
UCL/S-2W					·········
UCL/S-4W					
UCL/L-2W		···· بن الأق ال -··· بن موجد الا بن بي الله	~~~ <u>~</u> ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	ی میں بنا ہو ہی سندن کا این کا خدید کا میں اور	
UCL/L-4W		***********	ین ها بار بن بن بن به		
				cated Loop Modifications:	
Check here if	this is a conversion of	of existing service. E	xisting Telephone N	lumber:	
	Provide this loop	Provide ULM-LC ²	Provide ULM-BT ²	Existing CLEC FRNs ³	
UDL-2W/ADSL			خ یک کر چر یک کر _{کر م} ی میں میں میں میں میں میں میں میں میں می	است خاله الحاد وي بريد جد شد 144 است سار خليا ويود خون خوار وي وي بور بين الي ا	
UDL-2W/HDSL	·	······			
UDL-4W/HDSL					
UCL/S-2W					
UCL/S-4W					
UCL/L-2W	*	**************************************		-	
UCL/L-4W					
				cated Loop Modifications:	
Check here if				lumber:	ومن مومنا، وي بور مور مار مار مار مار م
	Provide this loop	Provide ULM-LC ²	Provide ULM-BT ²	Existing CLEC FRNs ³	
UDL-2W/ADSL			یں عامی ہے جب جب کہ تر ہے ہوت ہے تھا خلہ ہے	و و به به م و و و به بو به و	جة الأدبية في عو حو في عو عليا
UDL-2W/HDSL	·				
UDL-4W/HDSL		<u> </u>			
UCL/S-2W					
UCL/S-4W UCL/L-2W		ہے ہے جب کے بات کر سے جب سے ا	جه نگا کل وی دید سک خان مرب پید بند می مان ان می		
			ک کا کے بعد دو تاریخ جرمن باد کا س	ین میں بین بین میں میں میں خط خان کر اور میں میں میں اور میں میں میں میں میں میں ہیں ہیں ہے۔ میں اور	
UCL/L-4W					
Comments (describe w	ork required on job, e	xceptions, etc.)			
		· · · · · · · · · · · · · · · · · · ·			ی، وہ ها مر بن بن کر بن بن بن بن م

Return to Negotiator within 2 working days. Call negotiator if any delay is expected or incurred. Revised 07-21-00

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BellSouth Unbundled Copper Loop

Instructions for Preparing Service Inquiry

Below are the fields of information the CLEC must provide when preparing the UCL Service Inquiry (SI). Unless otherwise noted, there are no restrictions regarding length of fields or alpha/numeric makeup of required information.

General Information

- SI# (PON Number)
- Check (✓) if Firm Order, Change or Cancel
- Negotiator Name (BellSouth CRSG/Account Team Representative)
- Negotiator's Tel Number

Customer Information

- CLEC Company Name
- Service Address**
- Customer Contact/Telephone number (CLEC contact)
- Local Serving Central Office (eight character CLLI for Central Office)
- Number of Lines requested
- Due Date/Requested Service Date

****NOTE:** End user's full and complete mailing service address, which would include any dept/floor/suite/room/apartment number, as well as, the U.S. postal zip code

CLEC Loop Request

- Check (✓) if a conversion
- Existing Telephone Number/Circuit ID provide if conversion is checked
- Check (✓) each loop type requested. If multiple loops are requested, fill out one "CLEC Loop Request" section for each loop requested. Check ULM-LC if removal of load coils is requested.
- Check (✓) ULM-BT if removal of bridged tap (BT) is requested (BellSouth will remove BT(s) to meet UCL or HDSL specifications; or the CLEC may request a specific BT removal by can indicating the specific BTs to be removed in the Comments section.)

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BellSouth Unbundled Copper Loop

Instructions for Preparing Service Inquiry (continued)

Below is information provided by BellSouth on the SI:

Customer Information

CRSG/Account Team Representative will fill out the Special Construction (SC) fields (if necessary) depending on SC action decided by the CLEC.

Outside Plant Engineering Facility (OSPE) Reservation Pass

If facilities are available, OSPE will check (\checkmark) off item one (1) in this section and populate (FRN) (if the CLEC has not provided FRN previously obtained from Loop Make-Up request).

If facilities are not available, OSPE will check (✓) appropriate item number.

If facilities are not available but can be provided with Unbundled Loop Modification (ULM), OSPE will check (✓) item number 3 and provide an estimated completion date. OSPE will indicate ULM is required and provide an FRN in the Comments section. (SI will be returned to the CRSG/Acct. Team for the CLEC to approve ULM)

BellSouth Unbundled Copper Loop

Guidelines for Interfacing with the CRSG UNE Group

For Email Transactions

- In order to serve customers as efficiently as possible, the CLEC should communicate with the CRSG UNE Group via email, whenever possible. New orders, CLEC initiated corrections, and clarification responses should be submitted via email.
- The CRSG UNE Group email address is crsg.une@bridge.bellsouth.com.
- When submitting the request via email, submit only 1 PON (SI & LSR) per mail message
- Use the following guidelines in formatting the email subject header.

PON 12345 UNE NEW	for a new UNE order
PON 12345 LSOD NEW	new Line Share Splitter request
PON 12345 CORRECTION	for a CLEC initiated correction or update
PON 12345 CLARIFICATION RESPONSE	for a clarification response
PON 12345 STATUS	for a status request

For Facsimile Transactions

- Requests submitted via facsimile should be sent to 800-365-8108
- The following guidelines should be used for requests submitted via facsimile:
 - The request must be type written
 - A transmittal cover page must be used.
 - < The transmittal cover should include
 - PON Number(s)
 - Total number of pages transmitted
 - Contact information

BELLSOUTH

BellSouth Unbundled Copper Loop

Acronyms

ADSL	Asymmetrical Digital Subscriber Line
CDP	Clear Defective Pair
CLEC	Competitive Local Exchange Carrier
CLLI	Common Language Location Identifier
CRSG	Complex Resale Support Group
DLC	Digital Loop Carrier
DLR	Design Layout Record
DSLAM	Digital Subscriber Line Access Multiplexer
ECD	Estimated Completion Date
EE	Enhanced Electronic
FOC	Firm Order Confirmation
FRN	Facility Reservation Number
HDSL	High Bit Rate Digital Subscriber Line
ID	Identification
LCSC	Local Carrier Service Center
LMU	Loop Make-up
LSOGv2	Local Service Ordering Guidelines version 2
LSOGv4	Local Service Ordering Guidelines version 4
LSR	Local Service Request
LST	Line & Station Transfer
MDF	Main Distribution Frame
NC	Network Channel
NCI	Network Channel Interface
NID	Network Interface Device
OBF	Ordering & Billing Forum
OC	Order Coordination
OSPE	Outside Plant Engineering
PON	Purchase Order Number
RRD	Revised Resistance Design

BellSouth Unbundled Copper Loop

Acronyms (continued)

SC	Special Construction
SECNCI	Secondary Network Channel Interface
SI	Service Inquiry
TR73600	Technical Reference 73600
UCL/L	Unbundled Copper Loop/Long
UCL/S	Unbundled Copper Loop/Short
ULM	Unbundled Loop Modification
ULM-BT	Bridged Tap
ULM-LC	Load Coil
UNE	Unbundled Network Element
USOC	Universal Service Order Code

EXHIBIT WGL-4

BellSouth Unbundled Copper Loop – Non-Designed (UCL-ND)

> CLEC Information Package



BellSouth Unbundled Copper Loop – Non-Designed

BellSouth Unbundled Copper Loop – Non-Designed (UCL-ND)

CLEC Information Package

Version 1

BellSouth Unbundled Copper Loop – Non-Designed

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BellSouth Unbundled Copper Loop – Non-Designed

Introduction & Scope

This Product Information Package is intended to provide to CLECs a product description and general ordering information specific to the UNE described herein. Detailed ordering guidelines are provided in documents on the BellSouth Interconnection web site.

The information contained in this document is subject to change. BellSouth will provide notification of changes to the document through the Carrier Notification Process.

Please contact your BellSouth Account Manager if you have any questions about the information contained herein.

BellSouth Unbundled Copper Loop – Non-Designed

Service Description

Unbundled Copper Loop – Non-Designed (UCL-ND) will be provisioned as a dedicated 2- wire metallic transmission facility from BellSouth's Main Distribution Frame (MDF) to a customer's premises (including the NID).

UCL-ND will be a "**dry coppe r**" facility in that it will not have any intervening equipment such as load coils, repeaters, or Digital Access Main Lines ("DAMLs"). The UCL-ND loop may contain bridge tap of up to 6 Kft (exclusive of the loop length between the end user's premises and Serving Wire Center (SWC). UCL-ND typically will be 1300 Ohms resistance and in most cases will not exceed 18 Kft (18,000) feet in length, although UCL-ND will not have a specific length limitation. For loops less than 18 Kft and with less than 1300 Ohms resistance, the loop will provide a voice grade transmission channel suitable for loop start signaling and the transport of analog voice grade signals. UCL-ND will not be designed and will not be provisioned with either a Design Layout Record (DLR) or a test point.

If no compatible BellSouth facilities are available, the CLEC may utilize BellSouth's existing electronic Unbundled Loop Make-Up (LMU) process to screen and reserve facilities. If the CLEC uses the above process, they must provide the RESID/FRN information in the REMARKS section of the paper LSR (Local Service Request) form.

The CLEC may use BellSouth's Unbundled Loop Modification (ULM) process to remove bridge tap and or load coils from copper facilities in order to condition them as UCL-ND loops. Therefore, some loops that would not qualify as UCL-ND could be transformed into loops that do qualify by using the ULM process. The CLEC would send a request for the UCL-ND loop and any ULM requests, business as usual. These loops are are not intended to support any particular service s and may be utilized by the CLEC to provide a wide range of telecommunications services so long as these services comply with industry standards and do not adversely affect BellSouth's network.

CLEC may request, for an additional non-recurring charge, an Engineering Information (EI) document from BellSouth, which provides loop make up information, similar to a Design Lay Out Record (DLR). The CLEC must have the UCL-ND and EI in their CLEC contract, before they submit an order for these items. If not in the CLEC contract, the CLEC must contact their BellSouth negotiator to amend their contract.

BellSouth Unbundled Copper Loop – Non-Designed

Service Capabilities

UCL-ND will be terminated at the Central Office (CO) in the following manner:

- 1. They will be delivered to the CLEC at their collocation space via a cross connect. This cross-connect element will be provisioned out of the Collocation offering. Once this connection is made, the CLEC will provide the equipment and/or transport needed to provide the desired service to their end user.
- 2. If either of these loops is already connected to another UNE (Unbundled Network Element) (e.g., interoffice transport, unbundled local switching, etc.) they may remain connected to that element if the CLEC orders a combined UNE that includes the UCL-ND. BellSouth will not combine UCL-ND with any other UNE if the UCL-ND is not already combined with that element.

Once the service order has been processed via the (Local Carrier Service Center) LCSC Service Rep or via Electronic Interface, the service order will flow to Address and Facility Inventory Group (AFIG) for verification of CLEC CA/PR and to assign BellSouth facilities for CKL 2 location. Service order will flow to CO to be wired, then to Work Maintenance Center (WMC) for a possible dispatch to the field. Service order is then routed to the UNE CWIN (Customer Wholesale Interconnection Network Services) Center for coordination and turn up of service.

If facilities are not available, the CLEC may elect to pay Special Construction charges if they wanted BST to place facilities to a location where they do not currently exist. There will be instances where UCL-ND will not be available, (i.e., in an all fiber area.)

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BellSouth Unbundled Copper Loop – Non-Designed

Service Capabilities – Continued

Options

BellSouth offers three options to assist the CLEC in converting existing end-users to its service. These options are described below:

- 1. BellSouth offers Order Coordination (OC) as a chargeable option per UCL-ND loop when reuse of existing facilities has been requested by the CLEC. The purpose of OC is to convert an existing facility to the CLEC's service in a manner that minimizes dial-tone interruption for the end user.
- 2. BellSouth also offers Order Coordination-Time Specific (OC-TS) conversions when the CLEC has ordered OC and requires a time specific order conversion. In addition to the OC charge, which is applied per loop, an OC-TS charge will be applied per UCL-ND order.
- 3. A CLEC may also order an El Document that provides loop information similar to information provided on a DLR for an SL2 loop.

BellSouth Unbundled Copper Loop – Non-Designed

Technical Requirements

UCL-ND will be delivered to the CLEC at their collocation space via a cross- connect. Once this connection is made, the CLEC will provide connectivity needed to take the circuit back to its switch.

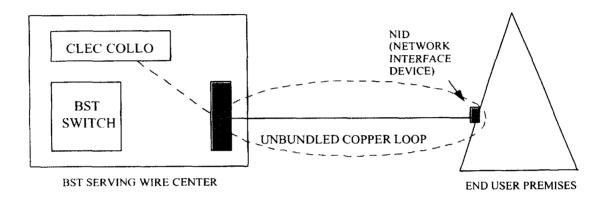
UCL-ND will be provisioned as 2 Wire circuits and will meet technical specifications as described in **BellSouth's TR73600**.

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BellSouth Unbundled Copper Loop – Non-Designed

Network Configuration



BellSouth Unbundled Copper Loop – Non-Designed

Ordering & Provisioning

The Local Carrier Service Center (LCSC) will receive and process orders by submission of the Local Service Request (LSR) from the CLEC. CLECs will utilize mechanized entry system where available.

Service Order Requirements

Local Service Request (LSR) Form

The CLEC will complete a Local Service Request (LSR) form according to the **BellSouth Business Rules for Local Ordering** – TCIF 9/LSOG 4 or the LEO IG (Volume 1) - TCIF 7. The following information is unique to UCL-ND and is also required on the LSR:

LSR Field	Information Required
NC 2 Wire UCL-ND	LXT-
DRC	LMU (Populated when the CLEC is requesting an Engineering Information (EI) Document from BellSouth)

The following forms are applicable to this product:

Local Service Request form	LSR	
End User Information form	EU	
Loop Service with Interim Number Portability	LS-INP	
Loop Service	LS	

The CLEC may send the paper LSR package via fax servers, courier service or U.S. Mail.

The LSR request may be submitted by the CLEC via mechanization.

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BellSouth Unbundled Copper Loop – Non-Designed Rate Elements & USOCs

Rates for UCL-ND loops will need to be included in your contract. Rates may be interim and subject to true-up pending approval of final rates by the respective State Commissions. Commission orders will specify the dates back to which true-ups are applicable. Below are the rate elements for UCD-ND:

Rate Element	USOC	
2 Wire UCL-ND	UEQ2X	
Manual Order Coordination (Optional)	UEAMC	
Order Coordination - Time Specific (Optional)	OCOSL	
Engineering Information Document (Optional)	UEANM	

Other Non-Recurring Charges

Expedite Charges – Applies if CLEC requests order interval less than the stated "standard interval" in the **BellSouth Products and Services Interval Guide**.

Manual Service Order – Applies if order is manually submitted and electronic ordering is available.

Order Cancellation – Applies if the CLEC cancels an order after the FOC (Firm Order Confirmation) has been issued.

Service Order Modification Charge – Applies if the CLEC modifies a service order after the Firm Order Confirmation has been issued.

Overtime Charge – Applies for work requested outside of normal working hours. Normal working hours for provisioning work requests is between 9 a.m. and 4 p.m. local time.

Time and Material – Applies for CLEC requested dispatch, (outside the central office), if "no trouble found."

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BellSouth Unbundled Copper Loop – Non-Designed

Intervals

Refer to the **BellSouth Products and Services Interval Guide** for the 2 Wire UCL-ND standard intervals.

Maintenance & Repair

The CLEC is responsible for testing and pre-screening any trouble conditions to ensure the trouble is with the UCL-ND loop before calling BellSouth. If the CLEC's testing isolates the repair problem to the UCL-ND loop, the CLEC should notify the CWINS (Customer Wholesale Interconnection Network Services) Center. CLEC will provide the results of the CLECs test, which would indicate a problem on the BellSouth provided loop.

The CLEC must provide the following information to CWINS when reporting a repair problem:

UCL-ND Circuit ID Number CLEC Ported Number (If Applicable) Service Address of UVL-SL1 Circuit in Trouble Description of Trouble Contact Name Contact Telephone Number

The UCL-ND is provisioned without a remote access test point, therefore, if a trouble is reported and no trouble is found, BellSouth will charge the CLEC for any dispatches and tests required to confirm the loop's working status.

BellSouth will perform these repair functions during normal hours (8 a.m. -5 p.m. local time). If the CLEC requests that BellSouth repair a trouble after normal work hours, the CLEC will be billed the appropriate overtime charges.

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BellSouth Unbundled Copper Loop – Non-Designed

Contract Specific Provisions

Before any UCL-ND compatible loop can be ordered, the CLEC must have an Interconnection Agreement that includes terms, conditions and rates for this loop. This agreement must be in effect for all states where the CLEC plans to order these unbundled loops.

The information contained herein applies to the UCL-ND general offering. The general offering is in accordance with BellSouth's policies, procedures and regulatory obligations as well as the standard BellSouth Interconnection Agreement.

The general offering does not address specific contract issues within a CLEC's Interconnection Agreement that may be different from the general offering. Where specific contract issues differ from the information provided here, the contract provisions will prevail for the term of the specific CLEC Interconnection Agreement. Otherwise, the general offering provisions will apply.



BellSouth Unbundled Copper Loop – Non-Designed

Acronyms

AFIG	Address and Facility Inventory Group
BST	BellSouth Telecommunications
CA/PR	Cable / Pair
CLEC	Competitive Local Exchange Carrier
СО	Central Office
CWINS	Customer Wholesale Interconnection Network Services
DLR	Design Layout Record
DRC	Design Routing Code
El	Engineering Information
EU	End User
FOC	Firm Order Confirmation
LCSC	Local Carrier Service Center
LNP	Local Number Portability
LMU	Loop Make Up
LS	Loop Service
LS-LNP	Loop Service with Number Portability
LSR	Local Service Request
NC	Network Channel
NID	Network Interface Device
OC	Order Coordination
OC-TS	Order Coordination – Time Specific
SWC	Serving Wire Center
TR73600	Technical Reference 73600



BellSouth Unbundled Copper Loop – Non-Designed

Acronyms - Continued

UCL-ND	Unbundled Copper Loop - Non-Design
ULM	Unbundled Loop Modification
UNE	Unbundled Network Element
USOC	Universal Service Order Code
WMC	Work Management Center

EXHIBIT WGL-5

BellSouth Loop Makeup (LMU)

CLEC Pre-Ordering and Ordering Guide for Manual Loop Makeup

BellSouth Loop Makeup (LMU)

CLEC Pre-Ordering and Ordering Guide For Manual Loop Makeup

(Issue 1.1 January 31, 2001)

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1.1 Purpose

This document provides the Competitive Local Exchange Carrier (CLEC) with the current Unbundled Network Element (UNE) Pre-Ordering and Ordering information pertaining to BellSouth Manual Loop Makeup (LMU). This document serves as a supplement to the <u>CLEC</u> Information Package (Version 2) of BellSouth Loop Makeup (LMU), with a posting date of 09/15/00.

The BellSouth LMU CLEC Information Package (Version 3) is located at the BellSouth Interconnection Services Web site in the CLEC Products Section at:

http://www.interconnection.bellsouth.com/products/UNE/bstlmu.pdf

1.2 Disclaimer Statement

The information contained in this document is subject to change. BellSouth will provide notification of changes to the document through the CLEC Notification Process.

This guide will be maintained until such time that it's content is incorporated into the BellSouth Business Rules – Local Ordering (BBR-LO). The BBR-LO is found at:

http://www.interconnection.bellsouth.com/guides/leo.html

1.3 Version History / Control

Any future modifications, enhancements, and/or improvements that are made to this Pre-Ordering and Ordering Guide for BellSouth *Manual* Loop Makeup (LMU) will be reflected accordingly in this section of the document.

Section	Date / Issue	Description
ALL	09/14/00 - Issue 1.0	Initial Issue Release
	01/31/01 - Issue 1.1	Notify CLEC of receipt of Manual LMU request. Ch. 5.
	01/31/01 – Issue 1.1	Requirement that for queries on ported TN, CLEC must use CKID. Ch. 5.

PO&OG-MANUAL LMU-1.1 CHAPTER 2.0 – Table of Contents

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PO&OG-MANUAL LMU-1.1 CHAPTER 3.0 – Manual LMU Overview

3.1 Manual LMU Overview

Manual Loop Makeup (LMU) is requested via the Manual Loop Makeup Service Inquiry (LMUSI) process.

Manual LMU can be requested for either a working facility or for spare facilities using the following rate elements per Manual LMUSI:

USOC	Rate Element
UMKLW	MANUAL Loop Makeup - Preordering <u>Without</u> Reservation, per working facility queried
UMKLW	MANUAL Loop Makeup - Preordering <u>Without</u> Reservation, per spare facility queried [Maximum No. of Spare Facilities per Manual LMUSI is (3)]
UMKLP	MANUAL Loop Makeup - Preordering <u>With</u> Reservation, per spare facility queried [Maximum No. of Spare Facilities per Manual LMUSI is (3)]

BellSouth's provision of loop data to the requesting CLEC on working facilities is contingent upon ownership considerations of the loop, whether by BellSouth or the requesting CLEC. The requesting CLEC is not authorized to receive loop data on a loop owned by another CLEC.

Manual LMU of Spare Facilities may be requested <u>With or Without</u> Reservation. When the CLEC requests Manual LMU of Spare Facilities <u>With</u> Reservation, a Reservation ID is returned with the LMU information. The reservation ID is also known as a Facilities Reservation Number (FRN). Hereafter within this document, this code will be referred to as the "RESID/FRN".

The reservation holding timeframe is a maximum of four days from the time that BellSouth's loop makeup data is returned to the CLEC on the facilities queried. During this holding time that a Service Order is not placed, the reserved facilities are rendered unavailable to other customers, whether for CLEC(s) or for BellSouth. Reserved facilities for which the CLEC does not plan to place a UNE service order should be cancelled by the CLEC in a timely manner.

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4.1 Availability

BellSouth will offer this product in all states within the BellSouth Region.

Per Manual LMUSI request, the CLEC may inquire for Manual Loop Makeup information on a

- single working facility, or
- maximum of three spare facilities

The STANDARD SERVICE INTERVAL for return of a response to Manual LMUSI is seven business days. This STANDARD SERVICE INTERVAL is a target interval. The interval is calculated from 'Receive Date' to 'LMU Return Date', and includes the time to render the Firm Order Confirmation (FOC). The FOC is rendered upon the issuance of the Billing Service Order. 'Receive Date' is defined as the date the Manual LMUSI is received by the designated BellSouth Account Team representative, and is counted as Day Zero. 'LMU Return Date' is defined as the date the LMU information is returned to the CLEC from BellSouth. The Interval calculation is reset to Zero when a CLEC initiated change occurs on the Manual LMU request. For a BellSouth initiated clarification to the CLEC to obtain correct information from the CLEC on its LSR, there may be a delay beyond the standard service interval in the return of a response to a Manual LMUSI request.

4.2 Contract Specific Provisions

Before a Loop Makeup Service Inquiry (LMUSI) may be submitted by the CLEC, the CLEC must have an Interconnection Agreement that includes terms, conditions and rates for the LMUSI(s) being requested. For more information on Contract Specific Provisions, refer to the <u>BellSouth</u> LMU CLEC Information Package.

4.3 Billing Information

Manual LMU will be billed from the Carrier Access Billing System (CABS) on a 'C' Billing Account Number (BAN). All activities herein described and associated with a unique Uniform Service Order Code (USOC) will incur a unique nonrecurring charge.

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5.1 Description of Ordering Process

The following points describe the high level Manual LMU Order Process Flow. Detailed information is presented within this Chapter in the Sections that follow.

To Request Manual LMU:

 CLECs request manual loop makeup information by submitting a Firm Order Manual Loop Makeup Service Inquiry (LMUSI) and a Local Service Request (LSR) form to the Complex Resale Support Group-UNE Group (CRSG), or to their direct Account Team for those CLECs not supported by the CRSG. Hereafter within this document, the use of "CRSG/Account Team" refers to both the CRSG-UNE Group and the direct Account Team, which ever is applicable.

NOTE: For those CLECs supported by the CRSG, refer to <u>Chapter 7.0</u>: <u>Guidelines for Interfacing</u> with the CRSG UNE Group.

2. BellSouth will provide an acknowledgement to the CLEC upon receipt of a Manual LMU request from the CLEC.

3. The CRSG/Account Team submits the LMUSI to the geographically appropriate Service Advocacy Center (SAC).

4. The SAC specialist prepares the LMU as specified on the LMUSI and returns the LMU, and the Facility Reservation (RESID/FRN), if requested, to the CRSG/Account Team.

5. The CRSG/Account Team sends the LMUSI and LSR to the Local Carrier Service Center (LCSC) for Billing Service Order issuance.

6. The LCSC issues the Billing Service Order for the Manual LMU.

7. The LCSC renders the Firm Order Confirmation (FOC).

8. Once the FOC has been rendered, the CRSG/Account Team returns the LMU and the RESID/FRN, if applicable, to the CLEC.

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5.1 Description of Ordering Process

Continued from previous page

To Cancel Reservation(s):

- 1. To cancel a reservation on spare facilities, the CLEC submits the LMUSI form to the CRSG/Account Team with the Cancel FRN item indicated.
- 2. The LSR form is not required.
- 3. The CRSG/Account Team sends the Cancel FRN LMUSI to the SAC.

To Cancel Pending LMUSI:

- 1. To cancel a pending Manual LMUSI, for which no Loop Makeup information has been processed, the CLEC submits the LMUSI form to the CRSG/Account Team with the Cancel LMUSI item indicated.
- 2. The LSR form is not required.
- 3. The CRSG/Account Team sends the Cancel LMUSI to the SAC.

5.2 Submitting a Request

For a Manual Loop Makeup request, the CLEC prepares and submits the

- Local Service Request (LSR) Form, Local Service Ordering Guidelines Version 4 (LSOG 4) or later, and
- Loop Makeup Service Inquiry (LMUSI) Form

A copy of the LSR Form is available at the BellSouth Interconnection Services Web site in the CLEC Customer Guides Section at:

http://www.interconnection.bellsouth.com/guides/bst_lsog4.html

A copy of the LMUSI Form is located at the end of this Guide.

Both forms must be typewritten.

The CLEC submits the LSR and the LMUSI forms together to the CRSG/Account Team for processing. See <u>Chapter 7.0</u>: <u>Guidelines for Interfacing with the CRSG UNE Group</u> of this Guide when submitting requests to the CRSG.

For a working pair LMUSI, the end user's address will be required along with either the telephone number or the circuit ID (CKID).

For spare facilities LMUSI, only the address of the service location is required.

5.3 Manual LMUSI Instructions

Instructions for preparing the LMUSI Form follow. The instructions are organized by Section, by field.

The LMUSI is a two-page form. Page 2 is only required if LMU is being requested for more than one facility. A maximum of three facilities may be requested for a single service address per LMUSI request.

The form MUST be typewritten. Unless otherwise noted, there are no restrictions regarding length of fields or alphalnumeric makeup of required information.

Section: "General Information "

Field	Instruction
Firm Order	Select for initial request
Cancel LMUSI	Select to cancel <u>pending</u> LMUSI for which LMU has not yet been processed
Cancel FRN	Select to cancel RESID/FRN for pair(s) previously reserved
Change	Select to update a pending Firm Order request
SI# (PON Number)	Enter the CLEC unique Purchase Order Number (PON). This entry always required.
Negotiator	Refers to the BellSouth CRSG/Account Team Representative Name
Negotiator's Tel Number	Refers to the BellSouth CRSG/Account Team Representative TN

NOTE: the reference "CRSG EMAIL ADDRESS: (CRSG UNE/m5,mail5a)" is for BellSouth use.

Section: "Customer Information"

Request Options: Select Only One of the Three Choices

- 1. Provide LMU at Telephone Number/CKID
- 2. Provide LMU at specified address for spare copper pair (loop facility)
- 3. Provide LMU at specified address for spare Digital Loop Carrier (DLC) pair

If Selected	Then Provide		
LMU for working facility	Telephone number, or, Circuit ID (CKID)		
LMU for spare copper pair	Number of spare pairs required – Maximum 3	Reserve Pair(s)? YES / NO	
LMU for spare DLC pair	Number of spare DLC pairs required – Maximum 3	Reserve Pair(s)? YES / NO	

NOTE On a Working Facility: For request on ported TNs, CLECs must use CKID **NOTE If Spare Facility(-ies):** CLECs cannot request a mixture of copper and DLC pairs on a single LMUSI spare facility request. CLEC should provide a Y/N response regarding its choice for a reservation of the facility queried.

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5.3 Manual LMUSI Instructions

Field	Instruction
Service Address	Enter the Local Exchange Navigation System (LENS), Telecommunications Gateway (TAG), or RoboTAG [™] validated Service Address. Include any dept/floor/suite/room/apartment number, as well as, the U.S. postal zip code. This entry always required.
CLEC Company Name	Enter the requested information. This entry always required.
CLEC Contact/Tele No.	Enter the requested information. This entry always required.
Local Serving Central Office Common Language Location Identifier (CLLI)	Enter the eight character Serving Wire Center CLLI code. This entry always required.

Section: "Customer Information", continued from previous page

Section: "Comments"

This section is always required with Cancel FRN.

Enter the FRN and Cable/Pair information for the reservation being cancelled.

-

5.4 Manual LSR Instructions

Instructions for preparing the Manual LSR Form follow. The instructions are organized by Section, by field.

Only the sections and fields specified herein (rather than the entire LSR Form) are required for purposes of processing a Manual LMUSI.

The form MUST be typewritten, using the LSOG 4 Version form. Please note specifications on length and alphalnumeric makeup of required information.

Section: "Administrative Section"

Field	Instruction
CCNA	Enter the 3 Alpha Character Code Assigned to CLEC
PON	Enter the CLEC unique PON – MUST match SI# (PON) field of associated LMUSI
VER	Will be populated if sending a SUPP
LOCQTY	Enter the number of Loop Makeups being requested
SC	Always LCSC
PG OF	Enter the requested information
D/TSENT	Enter the requested information
DDD	Enter the requested information
REQTYP	Always AB
ACT	Always N
SUPP	Will be populated if sending a SUPP
CC	Enter the 4 character Numeric Code Assigned to CLEC
ACTL	Enter the CLEC 11 character CLLI code for the Serving Wire Center (SWC), where CLEC is physically or virtually collocated in BellSouth SWC
TOS	Always 1BF

Section: "Bill Section"

Field	Instruction	
BAN1	Enter the established "C" BAN, or, "N" if BAN is not established.	
	See NOTE below regarding "C" BAN	
ACNA	Enter the 3 Alpha Character Code Assigned to CLEC	

NOTE: If the CLEC does not have an established "C" BAN, populate this field with an "N" and the Local Carrier Service Center (LCSC) Service Representative will establish the "C" BAN for the CLEC. (See procedures below for how to establish a "C" BAN)

Continued on next page

5.4 Manual LSR Instructions

Section: "Bill Section", continued from previous page

Procedures for Establishing "C" BAN: The fields listed below are required in order to establish a "C" BAN for the CLEC. If the CLEC's "C" BAN is already established, and thus, the CLEC populates this in the "BAN1" field on the LSR form, then the CLEC will not need to fill in the fields below.

Field	Instruction
BILLNM	Enter CLEC Company Name
STREET	Enter the requested information
FLOOR	Enter the requested information
ROOM	Enter the requested information
CITY	Enter the requested information
STATE	Enter the requested information
ZIP CODE	Enter the requested information
BILLCON	Enter Contact at CLEC
TEL NO	Enter the requested information

The CRSG/Account Team will check the LSR form to insure that the "BAN1" field is populated with either a "C" BAN number, or, an "N", the latter of which would prompt the LCSC to establish a "C" BAN for the CLEC. If the "BAN1" field is not populated, then the CRSG/Account Team will clarify the LSR and LMUSI, returning both manual forms back to the CLEC for completion.

If a "C" BAN is established for the CLEC, it is returned via the FOC.

Section: "Contact Section"

Field	Instruction
FAX NO	Enter the FAX number where Firm Order Confirmation (FOC) is to be sent by the LCSC
INIT	Enter Name of person at CLEC who initiated LSR
TEL NO	Enter Telephone number of CLEC Initiator

A Reminder When Filling Out the LSR: If a CLEC is sending in an LSR for purposes of a Supplement (SUPP), then the CLEC must populate the "VER" and "SUP" fields on the LSR, business as usual (BAU).

5.5 The LMUSI Response

Information presented on the LMUSI Response is as follows.

Section: "Outside Plant Engineering Makeup Data (Nun) Requested Pair"

If the LMU was requested on a working Telephone Number/Circuit ID, Outside Plant Engineering (OSPE) will fill in the Cable and Pair numbers, and list the loop makeup of that Cable and Pair facility.

If spare facilities were requested and are available, Outside Plant Engineering (OSPE) will fill in the Cable and Pair numbers; will populate the FRN if a reservation was requested by the CLEC; and list the loop makeup of that Cable and Pair facility.

If spare facilities are not available, or if the number of pairs available is less than the number requested, OSPE will indicate in the **Comments** section no spare pairs are available or that only some of the pairs are available.

5.6 The LMU Content

Loop Makeup Data is defined as the physical characteristics of the loop facilities, starting at the BST central office (CO) listed in chronological order and ending at the serving distribution terminal. Loop makeup data will consist of cable gauge and length, bridged taps (BT), load coils (LC), presence of Digital Loop Carrier (DLC) and any other equipment that is part of the local loop facilities.

The loop makeup will be listed as cable sections (e.g., F1, F2, etc.) on the LMUSI response in chronological order starting at the CO and ending at the end user serving terminal. Each section of cable (F1, F2, etc.) is distinguished by the presence of a crossbox, as indicated by an X at the appropriate point within the loop makeup response. (For example: Cable F1 would run from the CO to the first cross box; Cable F2 would run from the first crossbox to the second cross box or to the end user's serving terminal.) Facility cable sections will include the cable gauge, the length of the cable, as well as any load coils and bridged taps contained within that cable section. Length is measured in kilofeet ("kft"). The location of load coils will be indicated by the code "LC"; bridge tap will be indicated by the code "BT". The LMU response will also include the length of the bridge tap. If the loop makeup includes DLC the type of DLC will be indicated.

An example of a loop makeup response is as follows:

26NL - 10 kft	(The first facility cable section, F1, is non-loaded 26 gauge)
BT; 26NL - 2 kft	(F1 also includes BT at the end of 10 kft; the BT is 26 gauge for 2.0
	kft)
X	(Location of first crossbox; thus, F1 length is a total of 12 kft)
26NL - 2 kft	(The second facility cable section, F2, is non-loaded 26 gauge)

The total length of the facility in this example would be 14 kft. Responses for manual loop makeup will be provided in a similar fashion.

Continued on next page

5.6 The LMU Content

Continued from previous page

Use the following key to interpret the information returned on the loop makeup:

Code	Description	
26NL	Indicates a section of 26-gauge cable non-loaded.	
24NL	The other gauges are listed similarly. Changes to the numbers indicate the	
22NL	gauge (24NL, 22NL, and 19NL). Following this section designation is the length	
19NL	of the section in kilofeet to one decimal place.	
26H88	Indicates a section of 26-guage cable 88 milihenry loading.	
24H88	The other gauges are listed similarly. Changes to the numbers indicate the	
22H88	gauge (24H88, 22H88, AND 19H88) and the loading marked as appropriate.	
19H88	The H indicates 6000 foot spacing between load coils; a D would represent 4500	
	foot spacing. The numbers following the H or D indicate the amount of	
	inductance in milihenries.	
LC	Location of a load coil. Following the LC indicator is the distance from the CO in	
	kilofeet to one decimal place.	
X	Location of a cross connect facility.	
BT	Indicates that the following section is a Bridged tap. The bridged tap will be listed	
	using the cable gauge and loading indicator above. Following the BT indicator is	
	the length of the bridged tap section in kilofeet to one decimal place.	
BOC.xxx	Indicates the location of a build out capacitor and its capacitance in microfarads.	
DLC	Indicates the presence of Digital Loop Carrier (DLC). Following the DLC	
	indicator is the type of DLC, e.g. DLC, Series 5.	

6.1 Placing a UNE Service Order

Once the CLEC has received the LMU of a working TN or CKID, or received the LMU of spare facility(ies), and optionally reserved single or multiple spare pairs, the CLEC may determine if they wish to place an order for **BellSouth Unbundled Loop Modification** CLEC Information Package and/or for a UNE Service Order (e.g. for a 2-wire ADSL compatible loop). For such a UNE Service Order, either refer to **BellSouth Unbundled ADSL/HDSL Compatible Loops** CLEC Information Package, or to **BellSouth Unbundled Copper Loop CLEC Information** Package.

This information referenced above is located at the BellSouth Interconnection Services Web site in the CLEC Products Section at:

http://www.interconnection.bellsouth.com/products/unes.html

PO&OG-MANUAL LMU-1.1 CHAPTER 7.0 – CRSG

7.1 Submitting LMUSI & LSR to the CRSG UNE Group

Internet Email is required to submit LMUSI and LSR Forms to the CRSG UNE Group.

The following guidelines should be followed when submitting requests to the CRSG UNE Group.

Guidelines for Interfacing with the CRSG UNE Group

- In order to serve customers as efficiently as possible for manual requests, the CLEC should communicate with the CRSG UNE Group via email, whenever possible. New orders, CLEC initiated corrections, and clarification responses should be submitted via email
- The CRSG UNE Group email address is crsg.une@bridge.bellsouth.com.
- When submitting the request via email, submit only 1 PON (SI & LSR) per mail message

Email Subject Header	Purpose
PON 12345 UNE NEW	For a new UNE order
PON 12345 CORRECTION	For a CLEC initiated correction or update
PON 12345 CLARIFICATION RESPONSE	For a clarification response
PON 12345 CANCEL	For a cancellation
PON 12345 STATUS	For a status request

Use the following guidelines in formatting the email subject header

Every effort should be used to submit requests to the CRSG UNE Group via Internet Email. In cases of <u>extreme_circumstances</u> when Internet Email is not available, contact the UNE Group Sales Support Manager as indicated in Section 7.6 CRSG UNE Group Escalation Procedures of this document.

7.2 Verification Performed by the CRSG UNE Group

The CRSG UNE Group verifies the following fields on the LMUSI and LSR:

Form	Fields Verified
LMUSI	CLLI, ADDRESS, # OF SPARE PAIRS
LSR	ACTL, IBAN for "C" or "N"

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7.3 Reporting Status to the CLEC

The CRSG UNE Group provides CLECs with the "Open PON Status Report" on a daily basis. The purpose of the report is to provide status of the PONs <u>open</u> in the CRSG for processing. A PON is considered <u>closed</u> in the CRSG once the PON has either been FOCd by the LCSC, or, the PON has been Cancelled. Once a PON has been posted 'Closed', it will no longer appear on the Open PON Status Report.

The report is pulled once per day, after 4:00pm CST, and sent via email to the designated recipient.

The following note is attached to each report:

"Because of the volume of PONs received, all PONs submitted for processing may not appear on this report today. However, they will appear on the report for the next business day. PONs received after 3:00pm CST will also appear on the report for the next business day. If possible, please allow two business days for PONs to appear on this report before checking the status or re-sending.

If you have questions regarding a particular PON listed, please inquire according to the UNE status process."

The report shows the following information:

- CLEC NAME
- DATE RECEIVED
- END USER NAME
- STATE
- TYPE OF SERVICE
- PON NUMBER
- CLARIFICATION DATE IN & OUT
- DATE OF SERVICE INQUIRY
- DATE SENT TO LCSC
- CANCELLATION, if applicable
- NOTES TO CLEC

7.4 To Request UNE Status

To request PON specific UNE Status, the CLEC should send an Internet Email message to the CRSG UNE Email address at:

crsg.une@bridge.bellsouth.com

The Email message header should read as follows:

PON 12345 STATUS

where '12345' represents the PON Number, e.g. PON AL987654-00 STATUS.

7.5 To Specify CLEC Recipient of Open PON Status Report

To request a change to the Email Distribution List of the Open PON Status Report, send an Internet Email message to the CRSG UNE Email mailbox as stated in 7.4 above.

The Email message header should read as follows:

CHANGE DISTRIBUTION LIST

7.6 CRSG UNE Group Escalation Procedures

The following steps should be followed to initiate escalation within the CRSG UNE Group:

First Level of Escalation	Systems Designer assigned to the order
Second Level of Escalation	Customer Care Advocate Sharon Arnold (205) 321-3306
Third Level of Escalation	Sales Support Managers Cheryl Lewis (205) 321-4607 Ruby Neely (205) 321-4621
Fourth Level of Escalation	Sales Support Director Tracey Morant (205) 321-3192

General Information: Page 2 is only required if CLEC is req	uesting more than one loop.) Loop Makeup Service	Inquiry	Page 1 of 2
SI # (PON Num.)	Firm Order	Change Cancel FRN	Cancel LMU SI
	Negotiator	-	
	Negotiator Teleph		
	s, CLEC 10 indicate loop makeup type required, ne Number/CKID	, by telephone number: CKID, spare at	
Provide LMU at address	isted below for spore comparing	Number of spare copper Reserve Pair(s) in databa	pairs required (Max. 3 use (Y/N)?
	listed below for spare DLC pair.	Number of spare DLC p Reserve Pair(s) in datab	airs required (Max. 3) ase (Y/N)?
Service Address	CLEC Name		
		elephone number	
	Local Serving Cer	ntral Office CLLI	
Cable F1: Pair: Pair: Pair:	up Data First Requested Pair: sted, Fill in FRN if reservation is requested. FRN	:	
Dutside Plant Engineering Make Fill in Cable, pair and FRN if spares require Cable F1: Pair: Cable F2: Pair: Cable F3: Pair: Cable F4: Pair:	Pup Data First Requested Pair: Insted, Fill in FRN if reservation is requested. FRN FRN	·	
Dutside Plant Engineering Make Fill in Cable, pair and FRN if spares require Cable F1: Pair: Cable F2: Pair: Cable F3: Pair: Cable F4: Pair:	up Data First Requested Pair: sted, Fill in FRN if reservation is requested. FRN FRN	·	
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"The information contained herein is based upon BellSouth's records. This is the same information that BellSouth uses to determine loop compatibility for its own services. BellSouth cannot and does not warrant that the information contained herein is accurate in every case."

General Information: (Page 2 is only required	t If CLEC is requesting more th LO	Page 2 of 2 Dp Makeup Service Inquiry
SI # (PON	Num.)	Negotiator
		Negotiator Telephone Number CRSG EMAIL ADDRESS: (CRSG UNE/m5.mail5a)
	neering Makeup Data Seco RN if spares requested, Fill in FRN	
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	neering Makeup Data This IN if spares requested. Fill in FRN	
Cable F1:	Pair:	FRN:
Cable F2:	Pair:	
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Prepared by (Facilit	y Engineer)	Telephone Number
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Return to Negotiator within 2 working days. Call negotiator if any delay is expected or incurred.

Revised OE-30-00

"The information contained herein is based upon BellSouth's records. This is the same information that BellSouth uses to determine loop compatibility for its own services. BellSouth cannot and does not warrant that the information contained herein is accurate in every case."

1		BELLSOUTH TELECOMMUNICATIONS, INC.
2		DIRECT TESTIMONY OF THOMAS G. WILLIAMS
3		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
4		DOCKET NO. 960786-TL
5		May 31, 2001
6		
7	Q.	PLEASE STATE YOUR NAME, YOUR POSITION WITH BELLSOUTH
8		TELECOMMUNICATIONS, INC. ("BELLSOUTH") AND YOUR
9		BUSINESS ADDRESS.
10	A.	My name is Thomas G. Williams. I am employed by BellSouth as Product
11		Manager for Line-Sharing for the nine-state BellSouth region. My business
12		address is 3535 Colonnade Parkway, Suite E511, Birmingham, Alabama,
13		35242.
14	Q.	WHAT IS YOUR PROFESSIONAL EXPERIENCE AND
15		EDUCATIONAL BACKGROUND?
16	A.	My career at BellSouth spans over 14 years and includes positions in
17		various product management positions. I also have seventeen years service
18		with AT&T and Southern Bell, during which I held various positions in sales,
19		marketing, and operations. I have a bachelor's degree in Marketing.
20	Q.	HAVE YOU TESTIFIED PREVIOUSLY?
21	A.	Yes. I previously testified before the Georgia, Louisiana, and Alabama Public
22		Service Commissions and the Public Service Commission of South Carolina,

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1	and filed testimony with the Alabama, and Florida Public Service
2	Commissions and the Public Utility Commission of North Carolina.
3	Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?
4	A. The purpose of my testimony is to address certain aspects of the Commission's
5	Issue 5. First, I will demonstrate that BellSouth provides nondiscriminatory
6	access to the high frequency portion of the loop in compliance with
7	requirements of the Federal Communications Commission's (FCC) Line-
8	sharing Order and Line-sharing Reconsideration Order. ¹ Second, I will
9	demonstrate that a single competing carrier, or two separate carriers acting
10	together, can provide voice and data services over a single unbundled loop
11	obtained from BellSouth (the FCC refers to the latter arrangement as "line
12	splitting."). ²
13	Issue 5: In Order PSC-97-1459-FOF-TL, issued November 19, 1997, the
14	<u>Commission found that BellSouth met the requirements of Section 271 (c) (2)</u>
15	(B) (iv) of the Telecommunication Act of 1996. Does BellSouth currently
16	provide unbundled local loop transmission between the central office and the
17	customer's premises from local switching or other services, pursuant to
18	Section 271 (c) (2) (B) (iv) and applicable rules and orders promulgated by
19	the FCC?

20 Q. WHAT IS LINE SHARING?

¹ Deployment of Wireline Services Offering Advanced Telecommunications Capability and Implementation of Local Competition Provisions of the Telecommunications Act of 1996, Third Report and Order CC Docket No. 98-147 and Fourth Report and Order CC Docket No. 96-98, 14 FCC Rcd 20,912 (1999)(*"Line-sharing Order"*); Deployment of Wireline Services Offering Advanced Telecommunications Capability, Order on Remand, CC Docket Nos. 98-147, 98-11, 98-26, 98-32, 98-78, 98-91 (1999)(*"Line-sharing Reconsideration Order"*). ² Line-sharing Reconsideration Order, ¶ 16-18.

1 A. Line sharing allows a Competitive Local Exchange Carrier (CLEC) to provide 2 high speed data services to BellSouth voice customers. The CLEC's data service is provisioned over the high frequency portion of a copper loop. The 3 high frequency portion of the loop is the frequency range above the voice band 4 on a copper loop facility that is being used to carry analog circuit switched 5 voice band transmissions.³ The data signal typically is split off from the voice 6 signal by a splitter and then delivered to a digital subscriber line access 7 8 multiplexer (DSLAM) located in the CLEC's network at its collocation space. 9 The DSLAM converts the data signal into packets for transmission over the 10 CLEC's network.

11 BellSouth developed its line-sharing product in conformance with the 12 obligations set forth in the FCC's *Line-sharing Order* and the *Line-sharing* 13 *Reconsideration Order*. In these Orders, the FCC created a new Unbundled 14 Network Element ("UNE") that consisted of the high frequency portion of the 15 copper loop over which the Incumbent Local Exchange Carrier ("ILEC") 16 provides analog voice service to the end user. According to the FCC, line 17 sharing consists of the following:

- Two carriers one voice provider (ILEC) and one data provider
 (CLEC) serving a customer at a single address, i.e., one
 customer per loop. (*Line-sharing Order*, 14 FCC Rcd at
 20,948, ¶ 74);
 - xDSL technologies that do not use the frequencies immediately above the voice band, (i.e. ADSL), preserving a "buffer" zone

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³ 47 C.F.R. §51.319(h)(1).

to ensure the integrity of the voice band traffic (*Id.*, at 14 FCC Rcd at 20,943-44, ¶64);

- xDSL technologies that do not interfere with analog voice band transmission. (*Id.* at 14 FCC Rcd at 20,946-47, ¶¶ 70-71); and
- Lines that carry traditional Plain Old Telephone Service (POTS) 5 analog voice band services provided by the ILEC. If the 6 7 ILEC's retail POTS service is disconnected, the data provider must purchase the entire stand-alone loop if it wishes to 8 9 continue providing xDSL to the customer. Similarly, ILECs are 10 not required to provide line sharing to a requesting carrier when the CLEC purchases a combination of network elements known 11 as a UNE platform. (Id., at 14 FCC Rcd at 20,947-48, ¶¶ 72-12 13 73).

14 BellSouth offers line sharing in accordance with FCC rules. Specifically, linesharing is available to a single requesting carrier, on loops that carry 15 16 BellSouth's POTS, so long as the xDSL technology deployed by the requesting 17 carrier does not interfere with the analog voice band transmissions. BellSouth 18 allows line-sharing CLECs to deploy any version of xDSL that is presumed 19 acceptable for shared-line deployment in accordance with FCC rules and will 20 not significantly degrade analog voice service. To facilitate line sharing, 21 BellSouth will perform Unbundled Loop Modification (line conditioning) at the request of a CLEC on any loop, regardless of loop length, unless such 22 conditioning would significantly degrade the customer's analog voice service 23 provided by BellSouth. 24

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1 Q. HOW WAS BELLSOUTH'S LINE SHARING OFFERING DEVELOPED?

In accordance with the suggestion in the Line-sharing Order,⁴ BellSouth 2 Α. developed its line-sharing product through a collaborative process with all 3 interested CLECs. BellSouth invited CLECs to a collaborative line-sharing 4 meeting in Atlanta on January 26, 2000. Twelve CLECs participated in the 5 meeting. The participants agreed to form several working teams to develop, 6 test, and refine the procedures for use by CLECs and BellSouth to implement 7 line-sharing successfully. The first meeting of the working teams was held on 8 9 February 2, 2000. The participants jointly decided to have two sub-10 committees: a technical sub-committee and a systems/process sub-committee. 11 Each sub-committee would meet one day each week. The technical sub-12 committee worked on technical issues, such as systems/network architecture 13 and testing. The systems/process sub-committee focused on the pre-ordering, 14 ordering, provisioning, maintenance, and billing issues associated with line 15 sharing. Each sub-committee listed and prioritized issues and action items. The sub-committees addressed and resolved issues essential to the 16 17 development of the architecture and operations plan for the line-sharing product. Beginning April 12, 2000, the collaborative consolidated the two sub-18 19 committees and conducted the collaborative meetings on one full day each 20 week.

21 Q. WHAT WAS THE GOAL OF THE COLLABORATIVE MEETINGS?

A. The primary goal of the collaborative meetings was to jointly develop
 procedures and operations plans to implement central office-based line sharing.
 Attached to my testimony are several exhibits that the participants developed

⁴ Line-sharing Order, 14 FCC Rcd at 20,971-72, ¶ 128.

1 in the collaborative to assist in the development of the line-sharing product. 2 Exhibit TGW-1 demonstrates the order flow for the ordering and provisioning of line-sharing splitters. Exhibit TGW-2 details the ordering and provisioning 3 process for end user line-sharing orders. Exhibit TGW-3 is the Line-Sharing 4 Ordering Document ("LSOD") that CLECs use for ordering splitters or making 5 changes in splitters. Exhibit TGW-3A is the Line Sharing LSR Field 6 7 Exhibit TGW-4 is a document entitled "Job Aid for Loop Information. Qualification System (LQS)", which assists the CLECs in qualifying loops for 8 9 xDSL services. Exhibit TGW-5 is the "BellSouth Business Rules for Local 10 Orders" to assist CLECs in preparing line-sharing LSRs. Exhibit TGW-6 is a jointly developed maintenance flow that shows how troubles are reported and 11 12 handled both for voice and data over line-shared loops. Exhibit TGW-7 is a document that was provided to the CLECs at the collaborative meeting and 13 14 that explains how CLECs can access BellSouth's Trouble Administration and 15 Facilitation Interface ("TAFI") to report troubles, check the status of a reported trouble, or to run a mechanized loop test ("MLT") for line shared loops. This 16 exhibit is an extract from the CLEC TAFI documentation on the BellSouth 17 Interconnection web site. Exhibit TGW-8 shows the Trouble Receipt Process 18 19 Flow for CLECs to report line sharing data troubles to BellSouth and shows 20 how the CLEC uses BellSouth's TAFI for line sharing.

Six companies regularly participated in the joint CLEC/BellSouth meetings for
central office-based line sharing: BellSouth, Covad, NorthPoint, Rhythms,
NewEdge, and DuroCommunications. Other companies also participated in
the meetings, although less actively. They include AT&T, MCI, BlueStar,
NetworkTelephone, and Sprint.

1 Beginning June 28, 2000, the collaborative formed two additional teams. One team is addressing the development of the CLEC-owned splitter option for 2 central office-based line sharing. Exhibit TGW-9 is the charter for this 3 collaborative team. Active participants for this collaborative team are the 4 "owners" listed in the charter: BellSouth, Covad, DuroCommunications, 5 NewEdge, Rhythms, and Sprint. NorthPoint was a monitoring member. The 6 7 second new collaborative team is developing the architecture and procedures Covad, Rhythms, DuroCommunications, 8 for remote-site line sharing. 9 NewEdge, and Sprint have been regular participants for the Remote Site Line-10 sharing Collaborative. The charter for this collaborative is Exhibit 10. These new collaborative teams meet on alternate weeks for one half day. The CLEC-11 owned splitter arrangement and remote-site line sharing are discussed in more 12 13 detail later in my testimony.

14 One important part of the line sharing collaborative was the joint test of line-15 sharing procedures, which was, in essence, an extensive carrier-to-carrier test 16 of the product. BellSouth and the CLECs jointly created the Atlanta Linesharing Pilot (the "Pilot") to test and refine the line-sharing procedures for end 17 user service so BellSouth and CLECs could successfully implement line 18 sharing on June 6, 2000. The specific pilot objectives included various aspects 19 20 of the line-sharing ordering and provisioning process including qualification of 21 loops for line-sharing, and ordering and provisioning of access to the high 22 frequency portion of the loop for the CLEC to provide data service. All parties 23 agreed to work cooperatively to identify and resolve key ordering, provisioning, maintenance, and repair procedures. 24

Covad, NorthPoint, and Rhythms participated in the Pilot with BellSouth.
 These parties all agreed that the results of the Pilot would be shared with all of
 the participants in the collaborative.

BellSouth equipped eight Atlanta central offices (Marietta, Roswell, Buckhead,
Peachtree Place, Duluth, Sandy Springs, Chamblee, and Toco Hills) with
splitters for the Pilot. The CLECs selected and prioritized these pilot sites.

7 The Pilot was completed successfully in the second quarter of 2000. During the 8 Pilot, the participants tested the procedures for provisioning of end user line-9 sharing service. Throughout the Pilot, the participants collectively analyzed 10 the line-sharing processes and procedures that had been developed, and then 11 made necessary adjustments to assure a successful line sharing commercial 12 At each step, BellSouth and the CLEC participants shared the launch. 13 decisions and results of the Pilot with their respective internal implementation 14 organizations responsible for development of the necessary processes and OSS 15 enhancements.

16 Q. WHAT STEPS DID BELLSOUTH TAKE TO INSURE IT COULD BEGIN
17 OFFERING LINE SHARING END USER SERVICE WHEN THE FCC
18 INTENDED?

A. To ensure that CLECs could avail themselves of the line-sharing product on
June 6, 2000, BellSouth permitted CLECs to order splitters in advance of the
implementation deadline. In Georgia, CLECs began ordering splitter systems
on March 26, 2000. In other states, including Florida, ordering began on April
6, 2000. On June 6, 2000, BellSouth began accepting end user line-sharing
orders from CLECs. BellSouth provisioned these orders in accordance with

the procedures developed in the CLEC/BellSouth Collaborative Meetings and in the Pilot.

3 Q. HAS BELLSOUTH ENTERED INTO INTERCONNECTION 4 AGREEMENTS FOR LINE SHARING WITH CLECS IN FLORIDA?

5 A. Yes. BellSouth has entered into region-wide interconnection agreements with 6 CLECs such as Covad, NewEdge, BlueStar, NorthPoint, and Rhythms for the 7 ordering and provisioning of line sharing in the BellSouth region. Copies of 8 these line-sharing agreements are attached as Exhibits TGW-11, TGW-12, 9 TGW-13, TGW-14, and TGW-15 to my testimony. These agreements are 10 current and in effect in Florida and several other agreements containing line 11 sharing will soon be signed. Many of the general provisions and operational 12 terms and conditions found in these agreements were worked out in the weekly 13 collaborative meetings. Specific language for each CLEC was negotiated to 14 satisfy the needs of that CLEC. These agreements contain interim rates, 15 subject to true up from the individual state regulatory bodies, including the 16 Florida Public Service Commission. BellSouth's proposed rates for line 17 sharing are discussed in the testimony of Daonne Caldwell, filed in this 18 proceeding. The use of interim rates allowed CLECs to engage in line sharing 19 by the FCC's June 6, 2000 implementation deadline.

BellSouth also offers line sharing in its Revised Florida Statement of Generally
Available Terms and Conditions (SGAT). Proposed rates for line-sharing are
set forth in Attachment A to the SGAT and are supported by cost studies filed
with the Commission in this proceeding. The current version of BellSouth's
standard terms and conditions for line sharing offered to CLECs is attached to
my testimony as Exhibit TGW -16.

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Q. WHAT ARCHITECTURE IS BELLSOUTH USING TO DEPLOY LINE SHARING?

Attached to this testimony, as Exhibit TGW-17, is a diagram that illustrates the 3 Α. splitter arrangement for the BellSouth-owned splitter in the central office. 4 5 BellSouth allows CLECs to order splitters in three different increments: full 6 shelf (96 line units); one-fourth of a shelf (24 line units); or an 8-port option, 7、 currently under development. Under these options, BellSouth purchases, installs, inventories, leases, and maintains the splitters. BellSouth installs a 8 splitter in its equipment space or in a common area close to the CLEC's 9 10 collocation area. BellSouth will provide to requesting carriers loop and splitter functionality that is compatible with any transmission technology that the 11 12 requesting carrier seeks to deploy using the high frequency portion of the loop, 13 provided that such transmission technology is deployable pursuant to Section 14 51.230 of the FCC rules. BellSouth provides a bantam jack at the splitter so 15 the CLEC can test the high frequency portion of the loop.

16 Under any of these three options, a group of splitter ports is assigned to a 17 specific CLEC. The splitter is connected to BellSouth's frame via cabling. 18 One cable is connected to the splitter carrying the shared voice and data signal 19 from the frame to the splitter. A second cable carries the voice traffic from the splitter back to the frame. A third cable carries the data traffic from the splitter 20 21 to the frame. After the cables are run between the splitter and the frame, the 22 technician performs a "streaker card" test. This test insures appropriate connectivity between the splitter and the BellSouth frame and that the splitter 23 24 is ready to support end user line sharing orders.

1 When wiring the end user line sharing service, collocation cross-connections 2 are used to connect the loop carrying the shared voice and data traffic to the 3 splitter termination on the frame. A second cross-connection carries the voice traffic from the splitter termination to the BellSouth voice switch. The data 4 traffic is then carried to the CLEC collocation space by a cross connection. 5 After the wiring is completed for the end user line service, BellSouth tests the 6 7 voice service and also the cross-connections necessary to provide end user data 8 service. In order to verify that the data cross-connections are correct, 9 BellSouth recently completed work with a supplier who developed a Line-10 sharing Verification Transmitter test set. BellSouth technicians use this test 11 set to ensure that the data portion of the circuit is wired correctly for the end 12 user service.

Q. DOES BELLSOUTH ASSIST CLECS IN DETERMINING IF LOOPS QUALIFY FOR ITS DATA SERVICE?

15 A. Yes. BellSouth provides its loop make up information via the Loop Make Up 16 service that a CLEC may use to help determine if a loop can support the 17 CLEC's data service. Loop make-up information for a particular loop is the 18 same whether the CLEC intends to purchase a stand-alone xDSL-capable loop 19 or engage in line sharing. Thus, there is no difference in the process for 20 obtaining loop make-up information between the two offerings. CLECs can 21 submit requests for loop make-up information manually as described in the 22 testimony of Wiley (Jerry) G. Latham, or they can use the Local Exchange 23 Navigation System (LENS) and Telecommunications Access Gateway (TAG) 24 electronic interfaces. CLECs may obtain certain pre-qualification information regarding a loop by accessing the Loop Qualification System described in
 Exhibit TGW-4.

3 Q. WHAT ARE THE CLEC'S OPTIONS IF THE LOOP IS DETERMINED TO 4 BE UNSUITABLE FOR ITS DATA SERVICE?

- 5 A. The CLEC may request that BellSouth modify the loop with BellSouth's 6 Unbundled Loop Modification (ULM) offering. ULM allows the CLEC to 7 order removal of load coils or excessive bridged tap. ULM for line sharing is 8 the same process described in the testimony of Wiley (Jerry) G. Latham.
- 9 If the CLEC determines that a loop cannot be used or conditioned to provide 10 data service on the high frequency spectrum, the CLEC can attempt to identify 11 alternative loops via the Loop Make Up process (LMU). If unloaded copper 12 loops are available, the CLEC can reserve the facility for 96 hours. The LMU 13 process will provide the CLEC a facility reservation number (FRN). The 14 CLEC may place the FRN on the line sharing LSR to have high frequency 15 spectrum provisioned on the reserved loop.

16 If modifying a loop will significantly degrade the voice services BellSouth is 17 providing over a loop, and the CLEC is unable to locate another loop that 18 satisfies the technical requirements of the CLEC, the CLEC will not be 19 allowed to offer data service on a loop shared with BellSouth. If necessary, 20 BellSouth will make a showing to the state commission that the existing voice 21 service will be degraded and that no alternative loops are available.

22 Q. HOW DOES THE CLEC ORDER LINE SHARING?

A Local Service Request ("LSR") for line sharing is generally the same as an 1 A. 2 LSR for xDSL-capable loops. The only difference is that an LSR for line 3 sharing requires some additional information, namely a splitter assignment on the LSR. The purpose of the splitter assignment on the LSR is to direct 4 5 BellSouth technicians to the correct splitter port for the order. A CLEC LSR 6 for line-sharing specifies the splitter assignment by specifying the CLEC 7 ACNA, central office floor, isle number, relay rack, splitter shelf, and slot. The LSR also specifies the CLEC cable ID and cable pair to access the high 8 9 frequency portion of the loop. Exhibit TGW-3A to my testimony specifies the 10 fields required on the line-sharing LSR. The process flow for an end user linesharing order is shown in Exhibit TGW-2. 11

12 Q. CAN YOU DESCRIBE BELLSOUTH'S PROCESS FOR PROVISIONING13 LINE SHARING SERVICE?

A. BellSouth provisions line sharing under terms and conditions established with
 the CLECs during the collaborative process described above. These terms and
 conditions regarding provisioning of line sharing are contained in
 interconnection agreements and BellSouth's Revised SGAT. Exhibits TGW-1
 and TGW-2 to my testimony demonstrate the ordering and provisioning
 processes for line-sharing splitters and end user line-sharing orders.

As with any new product offering, BellSouth has experienced some isolated difficulties in the provisioning process. For example, BellSouth experienced problems in the installation of the splitters that necessitated certain network related remedial actions and additional training. BellSouth is committed to addressing these issues on an ongoing basis through the collaborative process and one-on-one communications with CLECs. For instance, BellSouth

conducted "streaker card tests" for all central offices where line-sharing 1 2 splitters are installed. A streaker card test determines if the splitter is correctly cabled to the frame. BellSouth has corrected every service affecting condition 3 that this streaker card test revealed. Moreover, the streaker card test is now 4 part of BellSouth's installation procedures and will be performed on all new 5 6 line-sharing splitters. In addition, in December 2000, BellSouth enhanced its Mechanized Loop Test (MLT) System such that MLT will have the capability 7 8 to detect the presence of a line-sharing splitter. This capability will allow CLECs to access MLT through CLEC TAFI to verify that the splitter is in 9 10 place prior to dispatching its technician.

- 11 Q. HOW CAN CLECS DETERMINE IF THEIR LINE SHARE12 INSTALLATION ORDERS ARE COMPLETED?
- 13 BellSouth's CLEC Service Order Tracking System (CSOTS) Α. Two ways. provides data local exchange carriers (LECs) the status of their line sharing 14 15 billing orders. On April 27, 2001, BellSouth provided an enhancement to let the data LECs view the status of their provisioning orders. 16 BellSouth will 17 continue to provide data LECs with a "line sharing COSMOS report" that 18 provides the status of the BellSouth line sharing work order. The data LEC simply has to check either of these reports and it will be advised as to the 19 20 current status of its order.

21 Q. WHAT PROCESS DOES BELLSOUTH USE FOR MAINTENANCE AND 22 REPAIR OF LINE SHARING SERVICE?

A. With stand-alone xDSL-capable loops, CLECs can report troubles with linesharing manually or using one of the maintenance and repair interfaces.

BellSouth provides, on a nondiscriminatory basis, physical test access points to 1 2 a requesting carrier through a standardized interface commonly referred to as a 3 "bantam test jack" for the purpose of loop testing, maintenance and repair activities. In order to test the voice portion of the loop, CLECs can access 4 MLT through TAFI. In addition, BellSouth has developed interim Line-5 6 sharing Joint Meet Procedures that allow BellSouth and CLEC technicians to meet in a central office, when standard trouble reporting procedures do not 7 resolve a trouble. BellSouth expects to discontinue use of this process once it 8 9 is determined to no longer be necessary.

10 Q. WHAT IS BELLSOUTH'S POSITION CONCERNING TESTING DATA11 CONTINUITY?

A. As described under provisioning, BellSouth is willing to test continuity of the
data circuit wiring. In January 2001, BellSouth announced to the line sharing
collaborative that BellSouth would begin using a new Line Sharing
Verification Transmitter (LSVT) to test the wiring of the loops for line sharing.
The device is now being deployed and use of this device has been included in
procedures for installation and maintenance of line sharing loops.

18 Q. HAS BELLSOUTH PROVISIONED LINE SHARING SERVICE IN

19 FLORIDA?

A. Yes. As of April 30, 2001, BellSouth had installed splitters in 470 wire centers
region-wide, and 123 wire centers in Florida. As of April 30, 2001, BellSouth
has provisioned line sharing on 780 lines in Florida and 2,765 lines regionwide.

Q. IS BELLSOUTH WILLING TO CONSIDER ANY OTHER ARCHITECTURES FOR PROVIDING LINE SHARING?

3 During the initial meetings of the collaborative, several CLECs requested the A. option of providing line sharing via a CLEC-owned splitter located in the 4 CLEC's collocation space. BellSouth agreed to investigate a CLEC-owned 5 splitter option in the collaborative meetings following the successful 6 7 commercial launch of the BellSouth-owned splitter product on June 6, 2000. As described earlier, the parties established an additional collaborative to serve 8 9 as a vehicle for these discussions. Exhibit TGW-9 to my testimony is the 10 charter for this initiative. The goal of this collaborative team was to "support the development of, with the mutual agreement to, the processes and 11 procedures required to jointly implement line-sharing utilizing CLEC-owned 12 13 splitters collocated in the central office...." See Exhibit TGW-9. This collaborative developed processes and procedures that enable CLECs to 14 engage in line sharing by means of a CLEC-owned splitter. Rates for line 15 16 sharing via a CLEC-owned splitter are set forth in Attachment A to BellSouth's Revised SGAT. A diagram for the planned CLEC-owned splitter 17 option for line sharing in the central office is Exhibit TGW-18 to my 18 19 testimony.

Despite the initial enthusiasm for a CLEC-owned splitter arrangement, to date no CLEC has installed its own splitter. Sprint committed to test the option beginning in January 2001, but then withdrew. No other CLEC has agreed even to test this option with BellSouth. BellSouth remains committed to testing its offer of line sharing via a CLEC-owned splitter.

In the line sharing collaborative, BellSouth and the CLECs jointly agreed to a 1 2 schedule for development of methods and procedures for the various requirements of the Line Sharing Order. Exhibit TGW-10 to my testimony is 3 the charter for the remote terminal collaborative team. The stated goal of this 4 collaborative "is to support the development of, with the mutual agreement to, 5 6 the processes and procedures required to jointly implement line-sharing utilizing splitters located in the remote terminal as one of the options to meet 7 8 the requirements of the FCC line-sharing order." See Exhibit TGW-10. 9 BellSouth has developed the RT Line Sharing option and performed internal 10 testing. Because no CLEC had collocated a DSLAM in a remote terminal, nor 11 demonstrated interest in ordering the RT line sharing option, the RT line sharing development effort has been suspended. BellSouth has completed 12 internal testing and the development of methods and procedures. BellSouth 13 14 can deliver this option 60 days after successful completion of end-to-end 15 testing with a participating CLEC.

16 Notwithstanding the apparent lack of CLEC interest, BellSouth stands ready to 17 provide line sharing from the remote terminal, if requested. BellSouth will 18 work independently with any interested CLEC to provide this service. To provide line sharing from the remote terminal, the CLEC must collocate in the 19 remote terminal and place a DSLAM in its collocation space. The CLEC may 20 21 then purchase the high frequency portion of the copper subloop from the 22 remote terminal to the end user customer. To date, however, no CLEC has requested line sharing from the remote terminal or line sharing over the copper 23 24 portion of the loop from the remote terminal to the customer premises.

25 Q. WHAT IS LINE SPLITTING?

A. Line splitting is when a CLEC provides voice service and a data LEC provides
 data service to the same end user over the same loop and neither of the carriers
 is BellSouth. BellSouth will allow CLECs (either one CLEC or two CLECs
 working together) to offer both voice and data over a single unbundled loop.
 See Revised SGAT, §IV.B9.

6 Q. HOW DOES BELLSOUTH PLAN TO OFFER LINE SPLITTING?

- A. BellSouth offers the same arrangement to CLECs as that described by the FCC
 in the Texas 271 Order and the *Line-sharing Reconsideration Order*.
 Specifically, BellSouth facilitates line splitting by CLECs by cross-connecting
 an xDSL-capable loop and a port to the collocation space of either the voice
 CLEC or the data CLEC. The CLECs may then connect the loop and the port
 to a CLEC-owned splitter, and split the line themselves.
- IF BELLSOUTH IS CURRENTLY THE VOICE PROVIDER AND A 13 Q. 14 PROVIDER OF DATA SERVICES (A "DATA CLEC") IS THE 15 ADVANCED SERVICES PROVIDER. AND THE END USER 16 SUBSEQUENTLY CHOOSES A CLEC FOR VOICE SERVICE (A "VOICE CLEC"), HOW WOULD LINE SPLITTING OCCUR? 17
- A. If the original line sharing arrangement was established with a Data CLECowned splitter, then BellSouth would not be involved with the splitter provisioning and, accordingly, any decisions regarding use of the splitter would be left up to the Data CLEC. If, however, the original line sharing arrangement were established with a BellSouth-owned splitter, then BellSouth would allow the Data LEC to continue leasing the BellSouth splitter under the following conditions:

- The existing Data CLEC remains the end user's advanced services
 provider, and
- The Data CLEC has an agreement with the Voice CLEC to use the 4 upper frequency spectrum of the loop to continue providing the 5 advanced services.

6 Q. WHAT PLANS DOES BELLSOUTH HAVE TO PROVIDE LINE 7 SPLITTING OTHER THAN CONVERTING FROM LINE SHARING?

Where a line sharing arrangement does not already exist, BellSouth will work 8 A. 9 cooperatively with Voice CLEC and Data LEC to develop methods and 10 procedures whereby a Voice CLEC and Data LEC may provide services over the same loop. Under this process, BellSouth will deliver a loop and port to 11 the collocation space of either the Voice CLEC or Data LEC, as specified in 12 13 the Line Sharing Reconsideration Order. The loop and port cannot be a loop and port combination (i.e. UNE-P), but must be individual stand-alone network 14 The Voice CLEC or the Data LEC shall be responsible for 15 elements. 16 connecting the loop and port to a CLEC-owned splitter. BellSouth shall not own or maintain the splitter used for this purpose. 17

18 To participate in line splitting, the voice provider, the data provider, or both the voice and data providers will need a collocation agreement with BellSouth and 19 20 will need authorization to order cross-connections, loops, and ports. If more 21 than one CLEC is involved, the second CLEC will need an agreement to share the CLEC of record's loop. This arrangement would provide a UNE loop and 22 port to provide the CLEC's end user with voice service. The high frequency 23 portion of the loop would be available for data because of the CLEC-provided 24 splitter, which is accessed via a cross-connection from the frame to the 25

CLEC's collocation space. A second cross-connection would return the voice 1 signal from the splitter in the collocation space to the BellSouth voice switch 2 3 port. BellSouth would bill the CLEC that purchases the loop and the purchaser of the loop will be responsible for all charges associated with the line splitting 4 UNE arrangement. Where the data LEC is different than the voice CLEC, the 5 6 purchaser of the loop may authorize the other party to act on their behalf. For 7 example, the voice CLEC and data LEC may need an arrangement between 8 themselves for the data LEC to report data troubles.

9 Q. WHAT PLANS DOES BELLSOUTH HAVE FOR A LINE SPLITTING10 COLLABORTATIVE?

11 BellSouth announced a "kick-off" meeting to discuss Line Splitting and to A. 12 initiate a Line Splitting Collaborative. This meeting was April 19, 2001 in Atlanta. Eight voice CLECs and data LECs attended the kick-off and indicated 13 14 an interest in participating in the collaborative. The first line splitting industry 15 collaborative was held May 3, 2001. The line splitting collaborative plans to meet weekly until the product is introduced and stable. Notwithstanding the 16 17 Collaborative Schedule, however, BellSouth stands ready to provide line splitting, if requested. BellSouth will work independently with any interested 18 19 CLEC to provide this service.

20 Q. WHAT CHARGES DOES BELLSOUTH BELIEVE ARE APPROPRIATE21 FOR LINE SPLITTING?

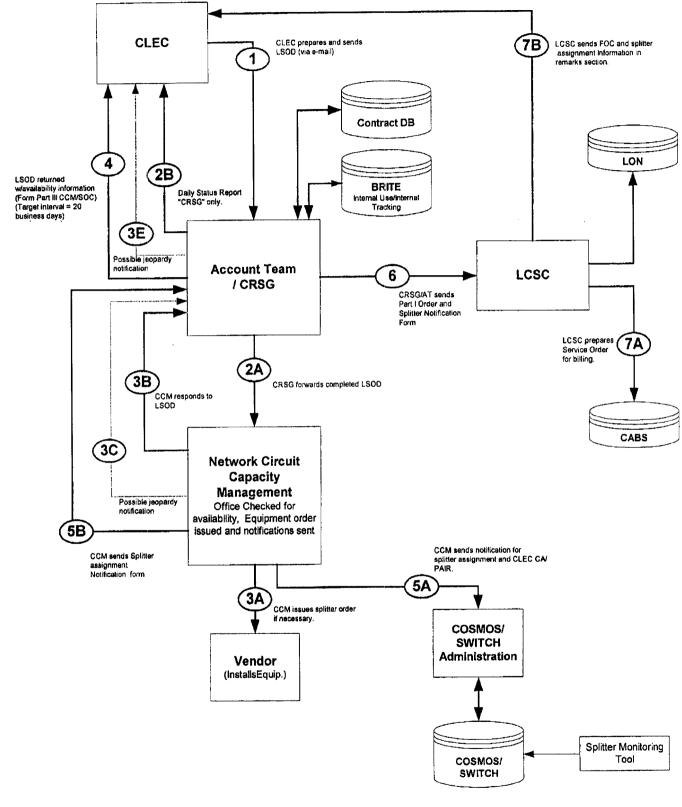
A. The applicable recurring charges to be paid by the Voice CLEC for this line
splitting arrangement will be the loop, the port, and two collocation crossconnections, as shown on Exhibit TGW-19. The applicable nonrecurring

- charges to be paid by the Voice CLEC for this line splitting arrangement will
 be the nonrecurring rate for the loop-port combination (switch-with-change to
 add the two cross connections).
- The rates for line splitting are not independent rates but rather are comprised of
 cost-based rates already set forth in Attachment A to BellSouth's Revised
 SGAT and in various interconnection agreements.
- 7 Q. DOES THIS CONCLUDE YOUR TESTIMONY?
- 8 A. Yes.

EXHIBIT TGW-1

Splitter Pre-Provisioning Flow

SPLITTER PRE-PROVISIONING FLOW Initial Splitter Order 9/18/00

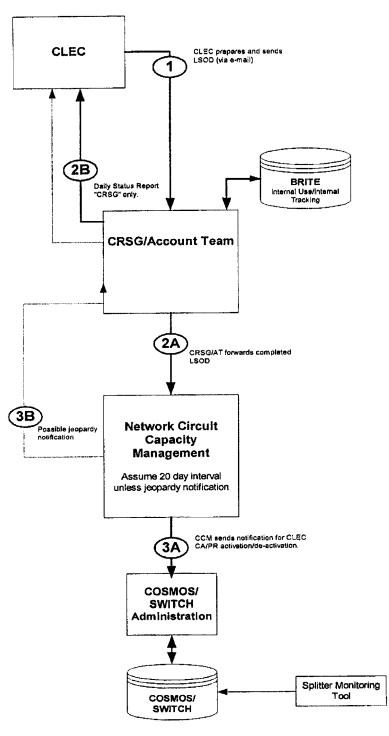


Date: 10/24/00

Revision 10 (Baselined in collaborative 10/25/00)

Page 1 of 2

SPLITTER PRE-PROVISIONING FLOW Pair Activation/Deactivation 10/24/00



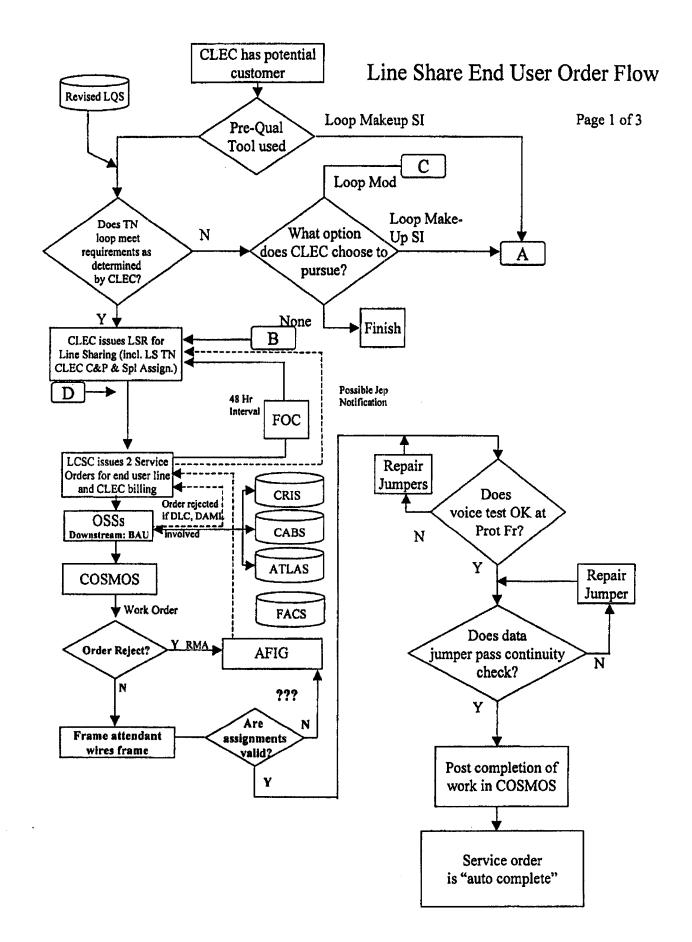
LSOD (Line Sharing Splitter Order Document)

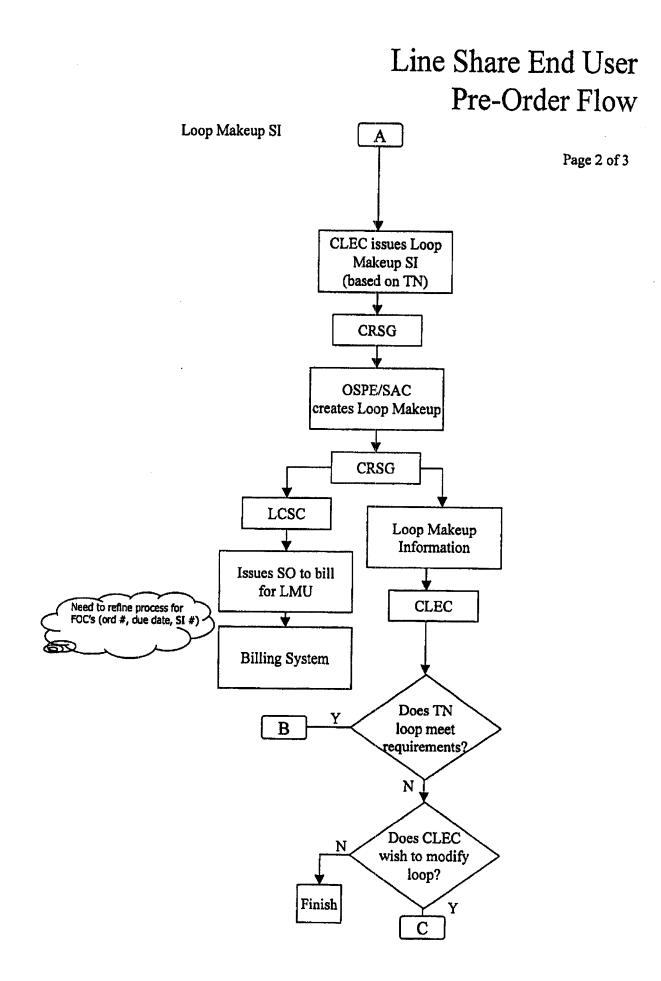
Date: 10/24/00

Revision 10 (Baselined in collaborative 10/25/00) Page 2 of 2

EXHIBIT TGW-2

Line Share End User Order Flow





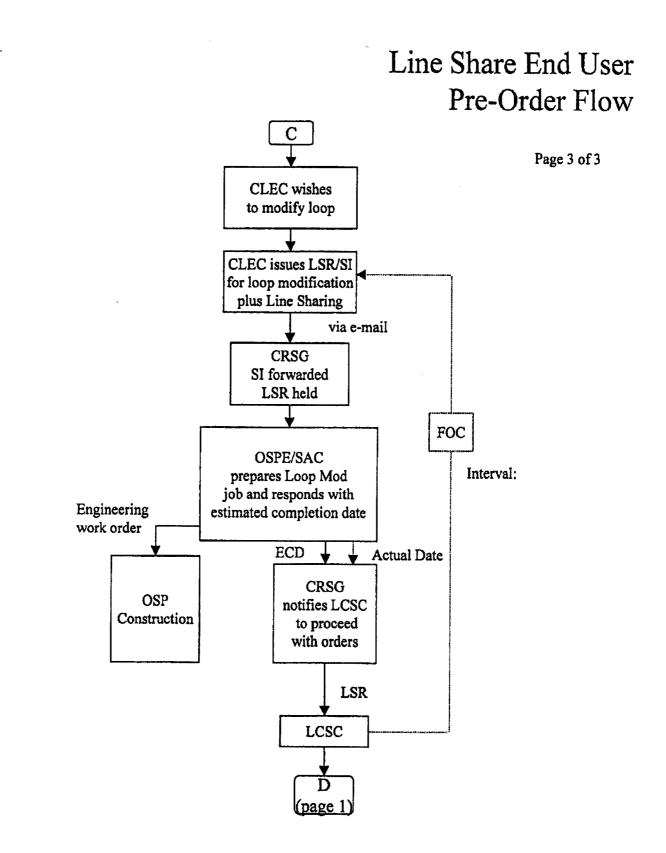


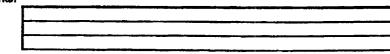
EXHIBIT TGW-3

Line Sharing Splitter Ordering Document

LINE SHARING SPLITTER ORDERING DOCUMENT

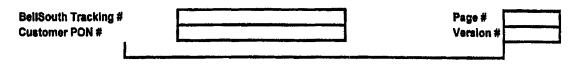
(form baselined \$/3/00)

BellSouth Tracking # Customer PON #		\exists	Page # Version #
PART I - ORDERING SECTION			
Customer ACTL:			
Date Order Submitted by Custo Date Order Received by BellSou Desired Due Date:		R	EQ TYPE: AB
New Splitter System Capacity		luantity of System	as this Order
Initial Order Update Existing Order Cancel Existing Order	96 Line	System(s) System(s)	24 Line System(s) 24 Line System(s)
Line Activation/De-Activation Initial Order Update Existing Order	(See Part 1B attac	-	e disconnected in the same
Cancel Existing Order		quantities as	originally provisioned
Disconnect Existing Splitter Ca Initial Order Update Existing Order Cancel Existing Order	pacity (See Part 1C attac	hed)	
Date Order Sent to Network CCI			esponse Nesded:
Date Order Sent to Network CCI BellSouth CRSG/Account Team			contact Information
	Representative Custor		
BellSouth CRSG/Account Team Name Title	Representative Custor Com Cont	ner Order/Design	
BellSouth CRSG/Account Team Name Title Address	Representative Custor Com Cont Title	ner Order/Design pany Name act Name	
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BellSouth CRSG/Account Team Name Title Address City State Zip Code Telephone Number: FAX Number: E-mail:	Representative Custor Com Cont Title Depa Addr City State Telep FAX E-mal Custor Bill N Stree Room City	ner Order/Design pany Name act Name rtment ess bhone Number: Number: Number: il: ner Billing Inform ame	Contact Information Zip Code ation Floor #
BellSouth CRSG/Account Team Name Title Address City State Zip Code Telephone Number: FAX Number: E-mail:	Representative Custor Com Cont Title Depa Addr City State FAX E-mal Custor Bill N Stree Roorr City State	ner Order/Design pany Name act Name rtment ess bhone Number: Number: Number: ht ner Billing Inform ame	Contact Information Zip Code ation
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LINE SHARING SPLITTER ORDERING DOCUMENT

(form beselined \$/3/00)



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EXHIBIT TGW-3A

Line Sharing LSR Field Information

Line Sharing LSR Field Information

Line Share LSR Preconditioning Screening Service Request

Local Service Request Form

- 1. Administrative Section
 - a Requirements
 - CCNA
 - PON
 - AN
 - DDD
 - REQTYP = AB
 - ACT = C, D, or V
 - CC
 - ACTL
 - LSO
 - TOS=*RF (*= BAU)
 - NC = UA-S
 - NCI = 02QB5.005
 - SECNCI = 02DU5.005
- 2. Bill Section
 - **D** Requirements
 - BAN1 = (13 Digits)
 - ACNA = DLEC
 - Remaining Fields Populated BAU (Business as Usual)
- 3. Contact Section
 - □ Requirements
 - Populated BAU
- 4. Remarks
 - **D** Requirements
 - ✓ Updated 7/18/00. Corrected to add AN field, TOS, and remove CIC which is not needed. Note added to BAN1 requiring 13 digits now.

End User Information Form

- 1. Location and Access
 - Populated BAU

Line Sharing LSR Field Information

Loop Service Form

1. Service Details

- Cable ID = DLEC Collocated Cable ID
- Shelf = Splitter Assignment Data Positions 9 and 10
- Slot = Splitter Assignment Data Positions 11 and 12 13 (dash between 12 and 13.)
- Relay Rack = FLR/AISLE/BAY (Splitter Assignment Data Positions 1 through 8. This is a 10-position field. Leave the last two positions blank. No dots or dashes.)

Example of appearance on Version 4 LSR using the splitter assignment of **SPLFIM0101500301041** would look like this:

Shelf	Slot	Relay Rack	Chan/Pr
<u>01</u>	<u>04-1</u>	01015003	<u>151</u>

- Chan Pair = DLEC Collocated Cable Pair
- LEAN = SLTN (abbreviation for shared line TN)
- LEATN = XXX (NPA) NXX XXXX (Line shared TN)
- 2. Remarks
 - RESID = FRN (See Note 2 below)

General Notes:

- 1. Multiple telephone numbers may be submitted on the same LSR provided they are billed on the same end user customer service record and serviced at the same address.
- The Line Shared LSR may be submitted with a Loop Makeup FRN and or a Loop Modification SI / FRN. This information should be noted in the Remarks section of the Loop Service Form as RESID = FRN.
 - The FRN associated with Loop Makeup is obtained via the *Mechanized Loop Makeup* transaction. This product is targeted to be available in July, 2000.
 - The FRN associated with <u>Manual Loop</u> Makeup is under development; currently no FRN is returned on a Manual Loop Makeup.
 - The FRN associated with Manual Loop Modification New Loop, is returned on the Service Inquiry. There is no FRN used on Manual Loop Modification Existing Loop.

3. Additional information can be obtained via the Internet at:

www.interconnection.bellsouth.com/guides/guides.html This site contains the BellSouth Business Rules for Local Ordering based upon the OBF industry consensus approved guidelines found in the *Local Service Ordering Guidelines* (LSOG) Version 4 Document. You can find this under the section titled Local Exchange Ordering (LEO) Implementation Guide.

Under the section titled BST Customized LSOG 4 forms you will find the new version 4 LSR in MS Word Format.

EXHIBIT TGW-4

Job Aid Using LQS as Line Sharing Loop Qualification Tool

LQS was created as a "Quick Check" Yes/No loop qualification tool for BellSouth's internal use and for ISPs reselling the BellSouth Industrial Class ADSL service. The information contained in LQS is derived from the LEAD database, a once-per-month-per-wire-center "snapshot" of the information contained in the LFACS database. (1/30th of all wire centers are updated every day.) LQS provides a "best effort" response regarding a loop's ability to support ADSL service. LQS is not guaranteed (currently, we have an approximate 90% accuracy rate on positive responses). Guaranteed service, or BellSouth's Business Class ADSL, does not utilize LQS (a manual Service inquiry and subsequent manual Loop Makeup is performed for exact Loop Makeup information).

This job aid, along with the information found at <u>http://lqs.bellsouth.com</u>, is intended to support the interim use of LQS by the CLEC community to perform loop qualification on potential Line Sharing customers. By understanding some of the proactive logic behind LQS and by defining the output codes as they relate to Line Sharing, this guide should enable the CLECs to gain some value from LQS until better solutions are available.

LQS was designed to report only "external" reason codes to reseller ISPs when a loop was not qualified. LQS was also designed to show internal BellSouth personnel more detailed "internal" reason codes. Until electronic access to LFACS is available, BellSouth has made available to the CLECs participating in Line Sharing the version of LQS which shows both the external and internal codes.

When LQS first returns a response on a phone number, the external reason is shown. By hitting the pull-down arrow on the response line, the user may also view the internal reason code.

External Reason Codes	Internal Reason Codes
A, C	IQ1, Copper-qualified loop IQ2, PairGain loop qualified with copper- qualified cross-box (requires cut-over) IQ3, PairGain loop qualified through BellSouth Remote DSLAM IQ4, PairGain loop qualified through BellSouth mini-RAM
A, F	Qualified through Fiber (IQ5, Qualified through CMS update)
P, C, Date	Planned for service on Copper
P, F, Date	Planned for Service on Fiber (IQ5, Qualified through CMS update)

The following table shows the possible positive responses from LQS:

The following is an explanation for when you receive the codes above:

IQ1, Copper-qualified loop

• This copper loop does qualify for ADSL service.

- IQ2, PairGain loop qualified through copper-qualified cross-box
- This customer is currently served via Digital Loop Carrier which will not support ADSL service. However, qualified copper pairs do exist at the cross-box. Procedures are under development in BST for a CLEC to request a pair change to a qualified copper loop.

IQ3 and IQ4, Qualified through Remote Solution

• This response code means that BellSouth has an existing remote solution (Remote DSLAM or mini-ram) available in the RT in which this customer gets their voice service.

NOTE: Due to the proactive logic in LQS, this code does mask any other codes about the loop currently serving the customer. The only valid assumption would be that the F2 portion of this customer loop is qualified for an ADSL-type of service.

IQ5, Qualified through CMS Update

• This response code means that BellSouth has an existing or planned IFITL remote solution serving this customer.

The following chart shows all of the available external and internal reason codes from LQS when a loop is not qualified:

External/Reason/Codes	Internal Reason Golese Tax established
E0 – Request ignored – file size limit	Same
E1 - Syntax error in phone number	Same
E2 – Service is not available for this	11: Copper loop with RZ>13
phone number	I2: Copper loop is loaded
	13: Copper loop has DAML
	15: Taper code is a dead zone
	16: Loop has DAML
	17: FN is loaded
	19: Terminal CZ > 9
	110: Existing service category not compatible
	111: Phone number is foreign exchange
	112: Taper code distance exceeded
	113: NPA-NXX is not found
E3 – Loop currently unqualified.	14: Pair gain loop with no Remote DSLAM
Please try again later	18: Wire center not DSLAM-equipped
E4 – No longer used	Same
E5 – No longer used	Same
E6 – Loop is not found. Please try again later.	Same

The following is an explanation of why you might receive the error codes above:

E2 - "Service is not available for this phone number"

- Internal codes I1, I9 and I12
 - The loop is too long to support ADSL.

(I1: overall loop resistance >1300 Ω ; I9: Carrier Zone > 900 Ω ; I12: Average distance of

File: LQSJA_BL

Version: 06/06/00

taper code to CO exceeds 18 kf).

- Internal codes I2 and I7
 - The loop contains one or more load coils.
- Internal codes 13 and 16
 - The phone number is on a Digital Added Main Line (DAML).
- Internal code IS
 - The customer falls within a known "dead" zone, an area flagged by maintenance personnel where ADSL is known not to work.
- Internal code 110
 - The line is not POTS or plain Centrex.
- Internal code II1
 - The phone number is an FX/FCO line.
- Internal code I13
 - The NPA-NXX belongs to one customer (e.g. a University) and all numbers in the range are PBX DID or Primary Rate ISDN numbers, OR
 - The NPA-NXX belongs to a CLEC.

E3 - "Loop currently unqualified. Please try again later"

- Internal code I4
 - The loop is behind a digital loop carrier system.
- Internal code 18
 - This central office is not equipped with a BellSouth DSLAM.

E6 - "Loop is not found. Please try again later."

- The phone number is on an ISDN line.
- The phone number is newly installed and not yet in LQS.
- The phone number is a direct inward dialing number (DID) behind a PBX.
- The phone number is served via Primary Rate ISDN.
- The phone number may belong to a facilities-based CLEC and is outside of BellSouth's network.

Important notes on the logic behind LQS:

LQS stops the search and logic routines when it finds the first error condition and reports that error code. It does not continue and find all possible error codes.

The following list shows the error checking sequence used by LQS:

Item 1) Check for proper input.	Output upon Error Found E1: Syntax error in phone number
2) Check for existence of NPA-NXX	E2: Service not available/ 113: NPA-NXX not found
3) Check for existence of loop in database	E6: Loop not found. Please try 24 hours later.
4) Check for FX Service	E2: Service not available/I11: Foreign Exchange
5) Check for incompatible services	E2: Service not available/ 110: Existing Service category not compatible
 6) Check if Remote Solution exists: If Remote Solution exists, then check coppediate a) Loading b) Presence of DAML c) Carrier Zone > 900 Ω 	E2: Service not available/17: FN is loaded E2: Service not available/16: Loop has DAML
If NO remote solution exists: Check for copper, then DI	LC.
7) Check for loaded copper pair	E2: Service not available/ I2: Copper loop is loaded
8) Check for DAML presence	E2: Service not available/ I3: Copper loop has DAML
9) Check for RZ code	E2: Service not available/ I1: Copper loop RZ>13
10) Check for DLC presence	E3: Loop currently unqualified, please try again later/14: PairGain loop with no Remote DSLAM
11) Check taper code for dead zone	E2: Service not available/ I5: Taper code is dead zone
12) Check taper code length	E2: Service not available/ I12: Taper code distance
13) Check for BellSouth DSLAM	E3: Loop currently unqualified/
File: LQSJA_BL	Page 4 of 5 Version: 06/06/00

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18: Wire center not DSLAM-equipped

(End of logic)

Since LQS performs the check for the presence of a BellSouth DSLAM last, if LQS shows the error "The central office is not equipped with ADSL", the loop can be assumed, but not guaranteed, to be qualified.

If LQS finds the existence of a BellSouth Remote Solution, most of the data about the loop is ignored except for F2 qualifications. Therefore, if LQS shows the response "Qualified Through Remote Solution", only the F2 portion of the loop can be assumed to be qualified.

General Note on LQS:

Numbers not having an LFACS cable pair assignment, such as the phone in a Collocation space, will not show up in LQS.

EXHIBIT TGW-5

BELLSOUTH BUSINESS RULES LOCAL ORDERING FOR LINE SHARING

CG-LEOO-019 Issue 9M-April 30, 2001 CHAPTER 3.0 - REQTYP A - Loop Service

3.9 Unbundled (CO Based) Line Share

3.9.1 Description

UNE CO Based Line Share is a UNE offering intended to allow DLEC/CLECs access to the upper spectrum or the high frequency portion of a 2-wire copper loop for xDSL services, a.k.a. data. BellSouth will continue to be the provider of the lower spectrum or low frequency portion of the loop for analog services, a.k.a. voice.

Line Share is a UNE offering that enables the DLEC/CLEC to provide xDSL-based services for the end user customer over the same copper loop that BellSouth provides the end user's voice service.

3.9.2 Ordering Form

The following chart illustrates the required, conditional and optional forms for ordering this service. Detailed information will follow to assist you in filling out each of these forms/screens.

		Forms/Screens										
REQTYP / SERVICE TYPE	SI	LSR	Hunting	EU	DL	DSCR	RS	DRS	PS	NP	LS	LSNP
A Line Share	R	R		R							R	

R = Required C = Conditional O = optional

Completing the LSR and EU Forms/Screens

The Required, Conditional, and Optional (R/C/O) fields on the LSR and EU forms will be given for every valid REQTYP/ACT combination in the **REQTYP** / ACT Combination Section.

The following chart shows all of the valid account level activities for this requisition type.

	ACTIVITY TYPE (ACCOUNT LEVEL)												
REQTYP	N	С	D	Τ	R	V	S	B	W	L	Y	P	Q
A - Line Share	x	x	x			x						X	x

05/30/2001

Note: " X " denotes valid account level activities. A blank entry indicates a non-valid account level activity.

Account level activities (ACT) apply to the entire account. The ACTs are defined below:

- [rArr | N = New installation and/or account (manual)
- [rArr] C = New installation and/or account (electronic)
- [rArr] C = Change an existing account (e.g., Rearrangement, Partial disconnect, or addition)
- [rArr | D = Disconnection
- $\mathbf{\tilde{r}Arr} \mid \mathbf{T} = \text{Outside move of end user location}$
- [rArr] \mathbf{R} = Record activity is for ordering administrative changes [rArr] \mathbf{V} = Full Conversion of service as specified to new Local Service Provider (LSP)
- [rArr] S = Seasonal suspend or restore denied account
- [rArr] W = Full Conversion of service as is
- [rArr] L = Seasonal suspension full account
- [rArr | Y = Deny (non-payment)
- [rArr] P = Conversion of service as specified: Partial Migration Initial
- [rArr] Q = Conversion of service as specified: Partial Migration Subsequent

Completing the LS Form

The Loop Service (LS) form may be required or invalid depending on the account level activity. Each account level activity has valid Line Level Activities (LNAs). These LNAs determine how, or if, the LS form should be populated.

Line level activities (LNA) apply to the specified line only. The LNAs are defined below:

- [rArr | N = New Installation (e.g., new line or additional line)
- rArr | C = Change or Modification to an Existing Line
- [rArr] D = Disconnection
- [rArr] X = Telephone Number Change
- [rArr] V = Conversion or Migration to new LSP as specified
- rArr W = Conversion or Migration as is
- [rArr] P = PIC Change
- [rArr] L = Seasonal Suspend
- [rArr | B = Restore

The following chart gives the valid LNAs for each account level activity (ACT) and the associated LS form usage.

If ACT is:	Then LNA is	And LS form/screen is:
N	N	Required
С	N, C or D	Required
D	D	Required
v	N, D or V	Required
P	N, D or V	Required
Q	N, D or V	Required

The RCO fields for the Loop Service (LS) form are listed according to the Line Level Activity (LNA) in the LNA Tables Section.

05/30/2001

3.9.3 REQTYP / ACT Combinations

The following charts show the Required, Conditional and Optional (R/C/O) fields on the LSR and EU forms for the valid REQTY /ACT combinations. LSR and EU forms for a valid REQTYP/ACT combination are paired together. Furthermore, the charts are organized by ACT and then Designed vs. Non-Designed within the ACT. Each chart will have a heading describing the REQTYP/ACT combination and Designed / NON-Designed status to which that chart is applicable. All unmentioned fields are either invalid, not applicable or prohibited. Populating any other fields may result in a fatal reject or a clarification of the service request.

Please note the following codes:

- Mandatory entries are indicated by quotation marks ("xxx").
- Optional fields marked with an asterisk (*) force at least one of the conditional fields to become required when populated.
- Fields used only for manual orders are followed by (m).
- Fields used only for electronic orders are followed by (e).

See the Data Element Dictionary Section for additional information on each of the fields listed below.

REQTYP A / ACT N (manual only)

LSR (Line Share) - <i>REQTYP A / ACT N (manual only)</i>						
Required	Conditional	Optional				
CCNA (m)	VER (m)	PROJECT (m)				
PON (<i>m</i>)	SUP(m)	EXP (<i>m</i>)				
AN (m)	CUST (m)	RPON (m)				
PG_OF_(<i>m</i>)		RORD (<i>m</i>)				
SC = " LCSC " (<i>m</i>)		IMPCON-PAGER (m)				
D/SENT (m)		ALTIMPCON (m)				
DDD (<i>m</i>)		ALTIMPCON-TEL NO. (m)				
REQTYP = "AB " (m)		REMARKS (m)				
ACT = " N " (<i>m</i>)						
CC (<i>m</i>)						

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ACTL (m)	
LSO (<i>m</i>)	
TOS = 'R ' in 2nd character (m)	
NC = "SWXX"(m)	
NCI = " 02QB5.005" (m)	
SECNCI " 02DU5.005" (m)	
CIC (m)	
BAN1 (<i>m</i>)	
ACNA (m)	
INIT (m)	
INIT-TEL NO. (m)	
INIT-FAX NO. (m)	
IMPCON (m)	
IMPCON-TEL NO. (m)	at least one of the conditional fields to

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" " = mandatory entry; " = when this optional field is populated, it forces at least one of the conditional fields to become REQUIRED; (m) = for manual ordering only; (e) = for electronic ordering only

EU (Line Share) - REQTYP A / ACT N (manual only)						
Required	Conditional	Optional				
PON (<i>m</i>)	VER (m)	LCON-NAME (m)				
AN (<i>m</i>)		LCON-TEL NO. (m)				
PG_OF_(m)						

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EU-NAME (m)	

REQTYP A / ACT C (New Install) electronic only

LSR (Line Share) - REQTYPA / ACT C (New Install) electronic only						
Required	Conditional	Optional				
CCNA (e)	VER (e)	PROJECT (e)				
PON (e)	SUP (e)	EXP(e)				
AN	CUST (e)	RPON (e)				
SC = " LCSC " (<i>e</i>)		IMPCON-PAGER (e)				
D/SENT (e)		ALTIMPCON (e)				
DDD (<i>e</i>)		ALTIMPCON-TEL NO. (e)				
REQTYP = "AB " (e)						
ACT = " C " (e)						
CC (e)						
ACTL (e)						
LSO (e)						
TOS = 'R ' in 2nd character (e)						
NC = " SWXX" (e)						
NCI = "02QB5.005"(e)						
SECNCI " 02DU5.005" (e)						
CIC (e)						

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BAN1 (e)	
ACNA (e)	
IMPCON (e)	
IMPCON-TEL NO. (e)	
INIT (e)	
INIT-TEL NO. (e)	
.INIT-FAX NO. (e)	
RESID (e)	

Υ.

" " = mandatory entry; " = when this optional field is populated, it forces at least one of the conditional fields to become REQUIRED; (m) = for manual ordering only; (e) = for electronic ordering only

EU (Line Share) - REQTYP A / ACT C (New Install) electronic only			
Required	Conditional	Optional	
PON (e)		LCON-NAME (e)	
AN (e)		LCON-TEL NO. (e)	
PG_OF_(e)			
EU-NAME (e)			

" " = mandatory entry; • = when this optional field is populated, it forces at least one of the conditional fields to become REQUIRED; (m) = for manual ordering only; (e) = for electronic ordering only

REQTYP A / ACT C (Change Activity)

LSR (Line Share) - REQTYP A / ACT C (Change Activity)		
Required	Conditional	Optional
CCNA	VER	PROJECT
PON	SUP	EXP

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AN	CUST	RPON
PG_OF_ (<i>m</i>)		IMPCON-PAGER
SC = " LCSC "		ALTIMPCON
D/SENT		ALTIMPCON-TEL NO.
DDD		REMARKS (m)
REQTYP = "AB "		
ACT = " C "		
СС		
ACTL		
LSO		
TOS = 'R' in 2nd character		
NC = " SWXX"		
NCI = " 02QB5.005"		
SECNCI = " 02DU5.005"		
CIC		
BANI		
ACNA		
IMPCON		
IMPCON-TEL NO.		
INIT		

INIT-TEL NO.	
.INIT-FAX NO.	

EU (Line Share) - REQTYP A / ACT C (Change Activity)			
Required	Conditional	Optional	
PON (<i>m</i>)	VER (m)	LCON-NAME	
AN (m)		LCON-TEL NO.	
EU-NAME			

" " = mandatory entry; " = when this optional field is populated, it forces at least one of the conditional fields to become REQUIRED; (m) = for manual ordering only; (e) = for electronic ordering only

REQTYP A / ACT D (manual only)

LSR (Line Share) - REQTYP A / ACT D (manual only)		
Required	Conditional	Optional
CCNA (m)	VER(m)	PROJECT (m)
PON (<i>m</i>)	SUP(m)	RPON (m)
AN (m)	CUST (m)	IMPCON-PAGER (m)
PG_OF_(<i>m</i>)		
SC = " LCSC " (<i>m</i>)		
D/SENT (m)		
DDD (m)		
REQTYP = "AB " (m)		
ACT = " D " (m)		
CC (m)		

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ACTL (m)	
LSO (<i>m</i>)	
TOS = 'R' in 2nd character (m)	
NC = " SWXX" (<i>m</i>)	
CIC (m)	
BAN1 (<i>m</i>)	
ACNA (m)	
INIT (<i>m</i>)	
INIT-TEL NO. (m)	
INIT-FAX NO. (m)	
IMPCON (m)	
IMPCON-TEL NO. (m)	

EU (Line Share) - REQTYP A / ACT D (manual only)		
Required	Conditional	Optional
PON (<i>m</i>)	VER(m)	
AN (m)		
PG_OF_ (<i>m</i>)		
EU-NAME (m)		

" " = mandatory entry; * = when this optional field is populated, it forces at least one of the conditional fields to become REQUIRED; (m) = for manual ordering only; (e) = for electronic ordering only

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REQTYP A / ACT V

LSR (Line Share) - REQTYP A / ACT V		
Required	Conditional	Optional
CCNA	VER	PROJECT
PON	SUP	ЕХР
AN	CUST	RPON
PG_OF_(<i>m</i>)		RORD (m)
SC = " LCSC "		IMPCON-PAGER
D/SENT		ALTIMPCON
DDD		ALTIMPCON-TEL NO. (m)
REQTYP = " AB "		REMARKS (m)
ACT = " V "		
CC		
ACTL		
LSO		
TOS = 'R ' in 2nd character		
NC = " SWXX"		
NCI = " 02QB5.005"		
SECNCI = " 02DU5.005"		
CIC		
BAN1		

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ACNA	
INIT	
INIT-TEL NO.	
INIT-FAX NO.	
IMPCON	
IMPCON-TEL NO.	
RESID (e)	

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" " = mandatory entry; " = when this optional field is populated, it forces at least one of the conditional fields to become REQUIRED; (m) = for manual ordering only; (e) = for electronic ordering only

EU (Line Share) - REQTYP A / ACT V		
Required	Conditional	Optional
PON(m)	VER(m)	LCON-NAME
AN (<i>m</i>)		LCON-TEL NO.
PG_OF_(<i>m</i>)		
EU-NAME		

" " = mandatory entry; * = when this optional field is populated, it forces at least one of the conditional fields to become REQUIRED; (m) = for manual ordering only; (e) = for electronic ordering only

REQTYP A / ACT P

LSR (Line Share) - REQTYP A / ACT P		
Required	Conditional	Optional
CCNA	VER	PROJECT
PON	SUP	EXP
AN	CUST	RPON

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I/	
PG_OF_ (<i>m</i>)	RORD (m)
SC = " LCSC "	IMPCON-PAGER
D/SENT	ALTIMPCON
DDD	ALTIMPCON-TEL NO. (m)
REQTYP = " AB "	REMARKS (m)
ACT = " P "	
СС	
ACTL	
LSO	
TOS = 'R ' in 2nd character	
NC = " SWXX"	
NCI = " 02QB5.005"	
SECNCI = " 02DU5.005"	
CIC	
BANI	
ACNA	
INIT	
INIT-TEL NO.	
INIT-FAX NO.	

IMPCON	
IMPCON-TEL NO.	
RESID (e)	

EU (Line Share) - REQTYP A / ACT P		
Required	Conditional	Optional
PON (<i>m</i>)	VER (m)	LCON-NAME
AN (m)		LCON-TEL NO.
PG_OF_(<i>m</i>)		
EU-NAME		

" " = mandatory entry; * = when this optional field is populated, it forces at least one of the conditional fields to become REQUIRED; (m) = for manual ordering only; (e) = for electronic ordering only

REQTYP A / ACT Q

LSR (Line Share) - REQTYP A / ACT Q		
Required	Conditional Optional	
CCNA	VER	PROJECT
PON	SUP	EXP
AN	CUST	RPON
PG_OF_(<i>m</i>)		RORD (m)
SC = " LCSC "		IMPCON-PAGER
D/SENT		ALTIMPCON
DDD		ALTIMPCON-TEL NO. (m)

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REQTYP = " AB "	REMARKS (m)
ACT = " Q "	
СС	
ACTL	
LSO	
TOS = 'R ' in 2nd character	
NC = " SWXX"	
NCI = " 02QB5.005"	
SECNCI = " 02DU5.005"	
CIC	
BANI	
ACNA	
INIT	
INIT-TEL NO.	
INIT-FAX NO.	
IMPCON	
IMPCON-TEL NO.	
RESID (e)	

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" " = mandatory entry; " = when this optional field is populated, it forces at least one of the conditional fields to become REQUIRED; (m) = for manual ordering only; (e) = for electronic ordering only

EU (Line Share) - REQTYP A / ACT Q			
Required	Conditional	Optional	
PON (m)	VER (m)	LCON-NAME	
AN (<i>m</i>)		LCON-TEL NO.	
PG_OF_(m)			
EU-NAME			

3.9.4 LNA Tables for REQTYP A

The following charts show the Required, Conditional and Optional (R/C/O) fields for the LS form/screen for the valid Line Level Activities (LNAs). The following charts are organized by type of loop (please refer to the section on **Types of Loops** for additional information on the types of loops), and then by the valid LNAs within each type of loop. Each chart will have a heading describing the type of loop and LNA to which that chart applies. Please refer to the **Completing the LS Form** Section for a listing of the valid LNAs for each account level activity. All unmentioned fields are either invalid, not applicable or prohibited. Populating any other fields may result in a fatal reject or a clarification of the service request.

Please note the following codes:

- Mandatory entries are indicated by quotation marks ("xxx").
- Optional fields marked with an asterisk (*) force at least one of the conditional fields to become required when populated.
- Fields used only for manual orders are followed by (m).
- Fields used only for electronic orders are followed by (e).

See the Data Element Dictionary Section for additional information on each of the fields listed below.

LNA = N

LNA = N - Line Share		
Required	Conditional	Optional
PON (<i>m</i>)	VER (m)	REMARKS (m)
AN (<i>m</i>)		

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	 -,
LQTY	
LNUM	
PG_OF_(<i>m</i>)	
LNA = " N "	
CABLE ID	
CHAN/PAIR = 4 A/N only	
RELAY RACK = 8 A/N	
SHELF = 2 N only	
SLOT = 3 N only (represents slot & line)	
SLTN = NPA-NXX - LINE(e)	
LEAN = "SLTN" (m)	
LEATN (m)	

LNA = C

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LNA = C - Line Share			
Required	Conditional	Optional	
PON (m)	VER (m)	REMARKS (m)	
AN (m)			
LQTY			
PG_OF_ (m)			

LNUM		
LNA = " C "	-∦	<u> </u>
CABLE ID		/
CHAN/PAIR = 4 A/N only		
ECCKT		
RELAY RACK = 8 A/N		
SHELF = 2 N only		
	<u> </u>	
SLOT = 3 N only (represents slot & line)		
	<u> </u> _	
SLTN = NPA-NXX - LINE(e)		
	└ <u>────</u>	
LEAN = "SLTN"(m)		
LEATN (m)	<u> </u>	
	L	

LNA = D

LNA = D - Line Share		
Conditional	Optional	
VER (m)	REMARKS (m)	
	[
	Conditional	

LNA = " D "		<u></u>
ECCKT][
SLTN = NPA-NXX - LINE(e)		
LEAN = "SLTN" (m)		
LEATN (m)		

LNA = V

LNA = V - Line Share			
Required	Conditional	Optional	
PON (<i>m</i>)	VER (m)	REMARKS (m)	
AN (m)			
LQTY			
LNUM			
PG_OF_ (<i>m</i>)			
LNA = " V "			
CABLE ID			
CHAN/PAIR = 4 A/N only			
RELAY RACK = 8 A/N			
SHELF = 2 N only			
SLOT = 3 N only (represents slot & line)			

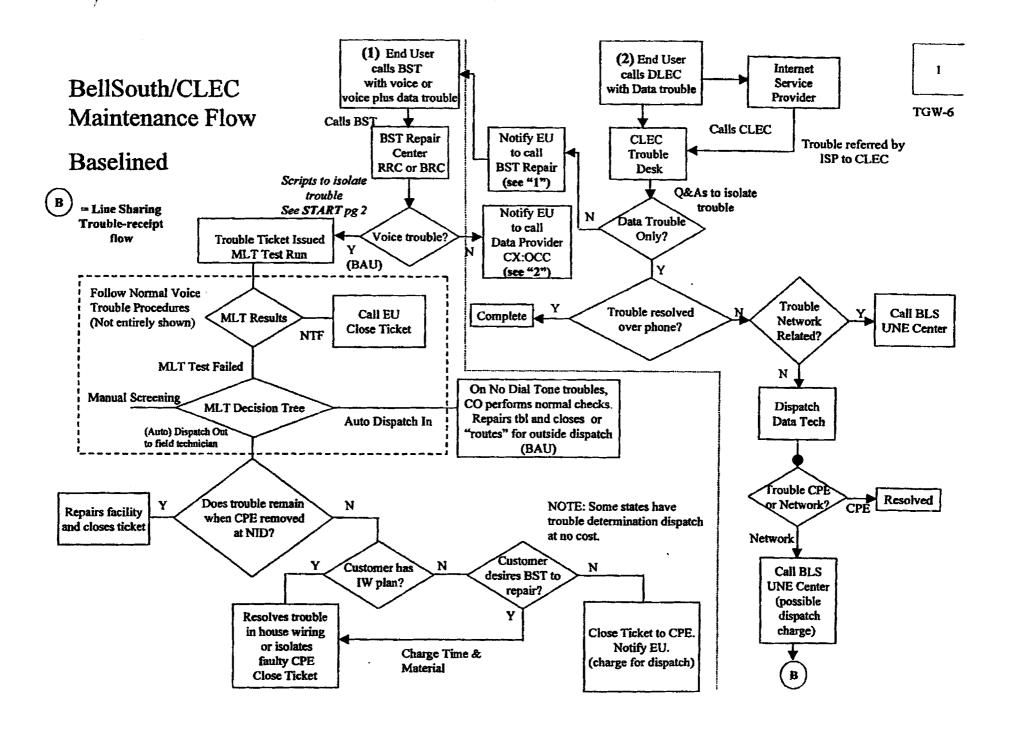
SLTN = NPA-NXX - LINE(e)		
LEAN = "SLTN" (m)		
LEATN (m)		
	<u> </u>	

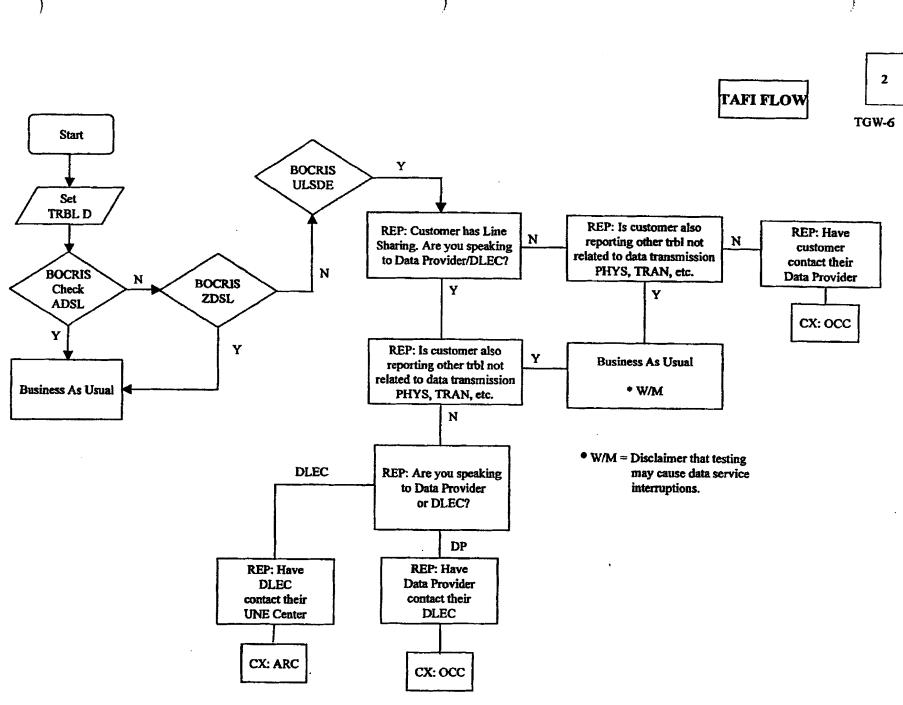
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EXHIBIT TGW - 6

BellSouth/CLEC Maintenance Flow





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BellSouth/CLEC Maintenance Flow

- ("1") End User calls BST with voice or voice plus data trouble
- BST personnel follows TAFI flows to determine trouble routing
- If "voice" trouble exists, "voice" trouble flow will be utilized
- If reported trouble is "data" trouble only, End User is referred to ISP (see "2")
- "Voice" troubles will follow "BAU" (business as usual) flows for voice troubles within BST

• ("2") End User calls DLEC/ISP with DATA trouble

- Trouble referred by ISP to DLEC/CLEC
- CLEC/DLEC trouble desk determines voice or data trouble
- If "voice" trouble exists CLEC/DLEC refers End User to call BST Repair (see "1")
- If "Data" trouble only CLEC/DLEC isolates trouble

.

- If Data trouble is not BST Network related CLEC/DLEC will resolve
- If Data trouble is isolated to BST Network CLEC/DLEC may call BST UNE Center and initiate Data trouble (see B "Line Sharing Trouble-receipt flow")

** BellSouth/CLEC Maintenance Flow was created to assist BST RRC/BRC personnel. Enhancements to RRC/BRC "data" TAFI scripts were developed to allow inclusion of Line Share "data" reports. An "assumed" DLEC end user flow was used.

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TGW-6

EXHIBIT TGW - 7

DLEC Access to TAFI

DLEC Access to TAFI

TAFI (Trouble Administration Facilitation Interface) is the vehicle used by BellSouth and CLEC users to process their end-user trouble reports on non-designed (POTS) voice-grade services. Since the DLEC is providing high-speed data access over the same physical facilities via the Line Sharing methodology, the DLEC will be limited in TAFI to **only** processing Line Share Data (LSD) reports.

Given:

- Should a CLEC expand the scope of their offerings and become a DLEC using line sharing (or visa-versa), the CLEC/DLEC will manage two unique TAFI user IDs: one for processing CLEC reports and a separate ID for processing DLEC reports.
- (2) The DLEC must know the area code of his end user and provide it with the circuit_id when entering a report in TAFI.
- (3) Prior to entering a LSD report via TAFI, the DLEC has confirmed with the end user that the voice service on the line shared line is working properly.

Connectivity:

The DLEC has two options for connecting to TAFI: (1) provision a LAN-LAN pipe to the nearest BellSouth POP or (2) use a modem and dial into the system via a telephone call to Atlanta. (Note: the BellSouth account team is familiar with this process as well as the process for establishing user_ids for the DLEC.)

The DLEC will access TAFI using either an X-Window terminal or a PC running Telnet protocol with VT220 terminal emulation software.

Using TAFI – Initial Report / MLT only:

- (1) Using the connectivity approach selected by each DLEC, access the TAFI processor and log in using the BellSouth provided user_id and your private password.
- (2) At the Initial Trouble Entry Window (ITEW), enter the area code and circuit_id for the customer in trouble.
 - Note: The ITEW is formatted for telephone number entry with an expanded NNNN area. Enter the area code in the NPA section, skip the NXX section and then enter the circuit_id without the delimiters. For example:

404____38HFGJ607999

- Note: The DLEC can enter the end-user's telephone number instead of the circuit_id to generate the LSD report.
- (3) TAFI provides several checks in the background to (a) confirm that Line Sharing is provided on this line (i.e., the presence of the ULSDE USOC in the CRIS S&E) and (b) that the DLEC entering the report is the 'owner' of the Line Sharing service. Ownership is determined by checking the OCN value found in the UNN1 FID in the CRIS S&E section and matching it with data in the DLEC's TAFI profile.
- (4) TAFI returns the telephone number on which Line Shared Data is provisioned and the DLEC is automatically taken to the TAFI LSD option.
 - (a) If TAFI can not find the corresponding telephone number to enter the trouble report, it will return an error message stating "No Record of LS Found" and then the DLEC will be returned to the ITEW. This error could be caused by several things:
 - 1) The wrong area code or circuit_id value was entered. (Correct errors and re-enter).
 - 2) Line Sharing service is not deployed (i.e., the order is future dated).
 - 3) The service order to provision Line Sharing just closed and the BellSouth down stream systems (CRIS and LMOS) have not been updated yet.
 - (b) If the DLEC believes that the data service was just deployed (i.e., item 3) above), enter the trouble report using the end-user's telephone number (i.e., the TN on which LS is provisioned). TAFI will look for a pending service order to validate the presence of the ULSDE USOC and UNN1 FID.
 - 1) If a match is found, and the service order is due "today" (or past due) and it is not in a jeopardy status, TAFI will return the telephone number and take the DLEC to the TAFI LDS option.
 - 2) If a match is not found, TAFI will return the error message "No Record of LS Found" and then the DLEC will be returned to the ITEW. At this point the DLEC must call the UNE Center for assistance.
 - (c) If TAFI finds Line Sharing on the line but the DLEC entering the report is not the owner (i.e., OCN values do not match), TAFI will return the error message "This Account Belongs to Another Company" and then the DLEC will be returned to the ITEW.
- (5) The DLEC is asked the question "Does the end-user have trouble with his voice services -Y/N?"
 - (a) If the answer is "YES", TAFI will prompt the DLEC saying "Please have your customer report his voice troubles to his service provider and, once repaired, retry his HS data connection". At this point TAFI will automatically cancel this report and return the DLEC to the ITEW.
 - (b) If the answer is "NO", TAFI will automatically run a MLT test.

 If the test results indicate a potential voice trouble condition (i.e., either the DLEC did not communicate step 5 accurately or the customer did not understand, etc.), TAFI will provide the DLEC with the following message: "While testing we found a potential voice problem on the line. Please have your customer report his voice trouble to his service provider and, once repaired, retry his HS data connection".

After displaying this message for 10 seconds, TAFI will cancel the report and return the DLEC to the ITEW.

- (6) TAFI will provide the DLEC with the FECO (Front End Close Out) recommendation (since the MLT test results indicate a TOK condition). At this point the DLEC can view the MLT test results (by depressing the F? key or system prompt?).
- (7) Once the DLEC has viewed the MLT test results, he will be asked: "Do you wish to CANCEL this report (i.e., just running MLT test) - Y/N?"
 - (a) A "Yes" response will cause TAFI to cancel the report and return the DLEC to the ITEW.
 - (b) A "No" response will cause TAFI to generate a LS data report and will automatically populate "%[DLEC] \$Data/Lineshare Trouble Test Continuity on [ckt_id #]" in the narrative, enter LSD as the trouble type and populate the DLEC's call back number (from an internal table) in the Reach number field. The report will be routed PDI (to send it to the CO technician).
- (8) The DLEC can view the commitment date/time from the final screen.
- (9) Once the report is entered, the DLEC is returned to the ITEW to enter the next report.
- (10) If there are no more troubles to report, the DLEC can log off by depressing the F6 key and then depressing the Enter key.

Subsequent Reports:

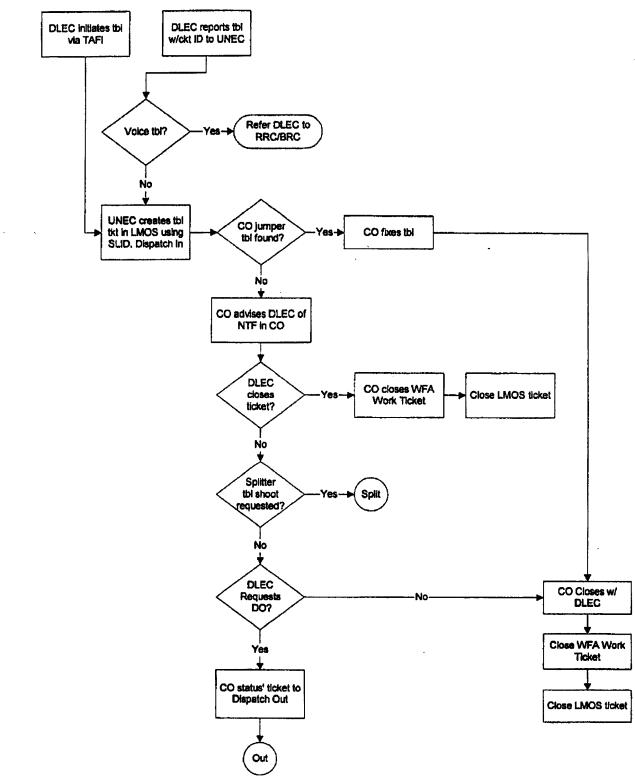
Once the DLEC enters an LSD report, DLEC may wish to (a) check status, (b) add information or (c) close the report because they found the problem outside of BellSouth's domain.

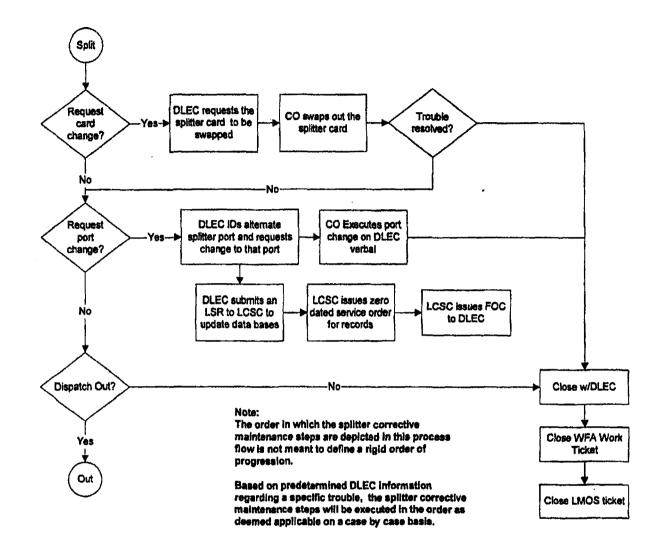
- (11) The DLEC will execute step (2) or (4b) depending upon how long the LS service has been active. TAFI goes to initiate an LMOS report and finds that an open report exists for this enduser's line.
 - (a) TAFI will check the pending LMOS report to see if the Trouble Type is "LSD".
 - If the Trouble Type is <u>not</u> LSD (indicating that the end-user has reported a problem with his voice service), TAFI will display the current status of the pending report and will return the following message: "A voice report exists for this line. Please have your customer check his HS data <u>after</u> this voice related trouble is cleared."
 - 2) After displaying this message for 10 seconds, TAFI will cancel this DLEC entry and return the DLEC to the ITEW.

- (b) The Trouble Type is LSD, TAFI will confirm that the DLEC is the owner of the LSD.
 - 1) If DLEC is not the owner of the LSD, TAFI will display "This Account Belongs to Another Company".
 - 2) After displaying this message for 10 seconds, TAFI will cancel this DLEC entry and return the DLEC to the ITEW.
- (c) DLEC is the owner TAFI will display the current status of the pending report and will ask "Do you wish to CLOSE the existing LMOS report Y/N?"
 - 1) If "Yes", TAFI will ask "Was the trouble Hardware related Y/N?
 - a) If "Yes", TAFI will close the report "DLEC cleared hardware trbl"
 - b) If "No", TAFI will close the report "DLEC reported came clear"
 - Note: TAFI will close the report if it is not in a dispatched status. If the report has been dispatched, TAFI will enter a subsequent report alerting the field technician that the problem is resolved.
 - 2) If "No", TAFI will ask "Do you wish to Update the existing LMOS report Y/N?"
 - a) If "Yes", TAFI will advise DLEC "Update narrative with new information and then send the report". TAFI will then generate a subsequent report with the updated narrative.
 - b) If "No", TAFI will cancel this DLEC transaction and automatically return the DLEC to the ITEW.
- (d) Once the report is sent, TAFI will return the DLEC to the ITEW.
- (12) If there are no more troubles to report, the DLEC can log off by depressing the F6 key and then depressing the Enter key.

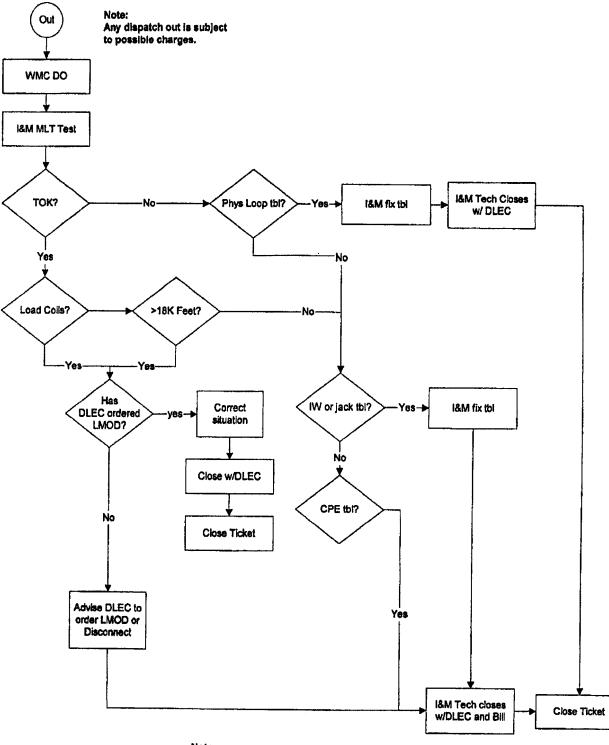
EXHIBIT TGW - 8

Trouble Receipt Process Flow





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Note: At any point in the process the DLEC can open a new ticket for a Dispatch Out Vendor Meet.

Maintenance Flow Documentation

ASSUMPTIONS:

This is a data only trouble flow End User started repair process by calling their ISP ISP had first right to dispatch. When problem was not found, ISP referred trouble to DLEC DLEC calls UNE Center

FLOW:

DLEC calls UNEC to report trouble with circuit ID on LS circuit

UNEC determines if trouble involves voice

If trouble involves voice, UNEC refers DLEC to have the end user call RRC/BRC

If trouble is data only, UCEC creates trouble ticket in LMOS using the circuit id format, advises DLEC of ticket number and routes trouble ticket for dispatch into CO.

CO technician receives ticket and checks continuity of data jumper

If trouble is found in CO, technician fixes trouble and closes with DLEC

If trouble is not found in CO, technician advises DLEC of NTF

DLEC will direct CO on any further action

If DLEC does not request further trouble isolation, CO closes ticket

If DLEC requests further trouble isolation, CO will perform requested activities DLEC requests splitter card to be reseated CO performs function CO contacts DLEC for additional action

DLEC requests splitter card to be replaced CO performs function CO contacts DLEC for additional action

DLEC requests CO to rewire to another splitter DLEC submits records only order to update databases with new splitter assignments CO rewires per DLEC verbal request CO advises DLEC function is completed CO contacts DLEC for additional action

DLEC requests a dispatch out, the CO routes trouble ticket for dispatch Note: Any dispatch out is subject to possible charges.

Trouble ticket is routed to outside technician through MAPPER

Upon receipt of ticket, TECHNET initiates MLT test on line

If MLT tests passes (TOK) I&M technician advises DLEC that no trouble was found (possible bill to DLEC)

The I&M technician checks for load coils and loop length.

If either condition exists, the I&M technician verifies that DLEC has ordered a LMOD.

If the DLEC has ordered a LMOD, the I&M technician corrects situation and closes ticket with the DLEC.

If the DLEC has not ordered a LMOD, the I&M technician advises DLEC to order a LMOD, and closes the ticket with the DLEC and bills DLEC

If MLT test fails and trouble is determined to be in loop, I&M technician repairs trouble "business as usual" and closes ticket to DLEC

If MLT test fails and trouble is determined to be in inside wire I&M technician repairs trouble and bills DLEC for repairs

Initial Trouble Reported as VOICE

CO technician will check for continuity and voice and will close ticket as NTF (ie technician cannot determine if problem is a bad splitter)

Outside technician also determines NTF.

EXHIBIT TGW – 9

Collaborative Charter CO Based DLEC Collocated Splitter Line Sharing

TGW-9

Collaborative Charter

Project Name	CO Based DLEC Collocated S	Project Number:	Line Sharing		
Project Manager	Brenda Slonneger	Brenda Slonneger Priority Level 8 (1-10)			
		(1-lowest, 10-bighast)			

Owner(s)	BellSouth - Tommy Williams	
	Covad - Lans Chase	``````````````````````````````````````
	Duro - Richard McDaniel	
i	New Edge - Mary Nelson	
	Rhythms - Dick Schell	
	Sprint - Bryant Smith	

Mission

The mission of the collaborate is to support the development of, with the mutual agreement to, the processes and procedures required to jointly implement line sharing utilizing DLEC owned splitters collocated in the central office, as an option, in order to meet the requirements of the FCC line sharing order.

Scope

The collaborative will support the line sharing initiative for DLEC owned splitters located in the central office collocation space by mutually validating the business processes and inter-company interface procedures required to implement this phase of line sharing within the BellSouth area.

Objectives

- 1. Identify line sharing system requirements for DLEC owned splitter option
- 2. Identify, test, approve, and secure a line sharing splitter product for DLEC owned splitter option
- 3. Implement a line sharing pilot test for DLEC owned splitter option
- 4. Validate ordering, provisioning, maintenance, and billing processes for DLEC owned splitter option

Assumptions

- 1. There will be active participation by all members of the collaborative
- 2. All the members of the collaborative will be objective and work in good faith
- 3. All the members of the collaborative will maintain a mutual respect for their counterparts
- 4. Any member of the CLEC/DLEC community may monitor this collaborative
- 5. This is a working team and does not include legal representation from the participating companies.

Constraints

- 1. Existing collocation agreements
- 2. Requirement to amend existing interconnection agreements
- 3. Pilot agreements will be required in the event the collaborative agrees to implement a pilot
- 4. Resource availability for participation in the collaborative meetings
- 5. Product target implementation date of 9/6/2000

Time/Major Milestones

- 1. Collaborative start date: 6/28/2000
- 2. Project schedule complete 7/26/2000
- 3. Product target implementation date: 9/6/2000

Cost/Budget/Financial Assumptions

The collaborative is a non-funded process. Each participating member will be responsible for their own respective expenses.

Quality/Specification

Deploy this phase of line sharing by 9/6/2000.

Major Risks

Product target implementation date of 9/6/2000

Project Core Team:	Company	Phone	Email Address
Members:			
Bryant Smith	Sprint		bryant.smith@mail.sprint.com
Dick Schell	Rhythms	770-516-0281	rschell@rhythms.net
Mary Nelson	New Edge		mnelson@newedgenetworks.com
Richard McDaniel	Duro	770-326-9335	rmcdaniel@durocom.com
Lans Chase	Covad	678-579-8414	lchase@covad.com
Tommy Williams	BellSouth	205-977-0056	Tommy.G.Williams@bridge.bellsouth.com
Brenda Slonneger	BellSouth	205-977-1276	Brenda.B.Slonneger@bridge.bellsouth.com
Mel Clay	PMSI • Project Mentors		Mclay@pmsi-pm.com
Erick Gamble	BellSouth	205-977-7410	Erick.gamble@bridge.bellsouth.com
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Project Monitoring			
Members:			cpolizzotti@northpointcom.com
Chuck Polizzotti	Northpoint	203-256-9317	dan.peer@mail.sprint.com
Dan Peer	Sprint		chris.monticue@mail.sprint.com
Chris Monticue	Sprint		rshaw@trivergent.com
Richard Shaw	Trivergent Com	864-678-7711	÷ •

Project Manager Approval:	Signature	Date
Brenda Slonneger		

Owner Approval:	Signature	Date
BeliSouth - Tommy Williams		
Covad - Lans Chase		
Duro - Richard McDaniel		
New Edge - Mary Nelson		
Rhythms - Dick Schell		
Sprint - Bryant Smith		

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Collaborative Charter BST – RT – LS Line Sharing Collaborative

Collaborative Charter

Project Name	BST-RT-LS Line Sharing Collaborative			Project Number:	Line Share
Project Manager	Brenda Slonneger	Priority Level (1-10)	8	Date:	7/19/000
L		(I=lowest, 10-highest)			

Stakeholder(s)	BellSouth - Tommy Williams
	NorthPoint - Chuck Polizzotti
	Rhythms - Jim Cuckler
	Duro - Richard McDaniel
	Sprint - Chris Monticue

Mission

The mission of the collaborative is to support the development of, with the mutual agreement to, the processes and procedures required to jointly implement line sharing utilizing splitters located in the remote terminal as one of the options to meet the requirements of the FCC line sharing order.

Scope

The collaborative will support the implementation of the line sharing initiative within the existing collocation guidelines in the remote terminal by mutually establishing the business processes and inter-company interface procedures required to implement and support this phase of line sharing within the BellSouth area.

Objectives

- 1. Identify line sharing system requirements for the RT located splitter option
- 2. Identify, test, approve, and secure a line sharing splitter product for the RT located splitter option
- 3. Implement a line sharing pilot test for the RT located splitter option
- 4. Establish ordering, provisioning, maintenance, and billing processes for the RT located splitter option

Assumptions

- 1. There will be regular participation by all stakeholder members of the collaborative
- 2. All the members of the collaborative will be objective and work in good faith
- 3. All the members of the collaborative will maintain a mutual respect for their counterparts
- 4. Any member of the CLEC/DLEC community may monitor this collaborative
- 5. This is a working team and does not include legal representation from the participating companies.
- 6. Wavers of existing collocation rules will be obtained in order to implement a pilot test and achieve the target implementation date

Constraints

- 1. RT collocation agreements
- 2. Requirement to amend existing interconnection agreements
- 3. Pilot agreements will be required in the event the collaborative agrees to implement a pilot
- 4. Resource availability for participation in the collaborative meetings
- 5. Product target implementation date of 3/31/2001
- 6. Achieving desired target date will require wavers of existing collocation rules to implement a pilot test

Time/Major Milestones

- 1. Collaborative start date: 7/19/2000
- 2. Project schedule development complete 10/16/2000
- 3. Product target implementation date: 3/31/2001

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Cost/Budget/Financial Assumptions

The collaborative is a non-funded process. Each participating member will be responsible for their own respective expenses.

Quality/Specification

Deploy this phase of line sharing by 3/31/2001.

Major Risks

- Product target implementation date of 3/31/2001
- Obtaining wavers of existing collocation rules to implement a pilot test prior to implementation date

Project Core Team:	Company	. Phone	Email Address
Members:			
Chuck Polizzotti	NorthPoint	203-256-9317	cpolizzotti@northpointcom.com
Jim Cuckler	Rhythms	770-271-3904	jcucker@rhythms.com
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Diann Hammond	BellSouth	205-321-7727	DiannHammond@bridge.bellsouth.com
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Project Monitoring Members:			
Larry Gindlesberger	Covad	330-284-4177	
Frank Kowalski	DSL.NET	JJU-204-41//	Lgindles@covad.com
			fkowalski@dsl.net
Mary Nelson	New Edge		mnelson@newedgenetworks.com

Project Manager Approval:	Signature	Date
Brenda Slonneger		

Stakeholder Approval:	Signature	Date
BellSouth - Tommy Williams		
NorthPoint - Chuck Polizzotti		
Rhythms - Jim Cukler		
Duro - Richard McDaniel		
Sprint - Chris Monticue		
,		

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EXHIBIT TGW - 11

Amendment to the Interconnection Agreement Between Dieca Communications, Inc. (d/b/a Covad Communications) and BellSouth

Exhibit TGW-11 Page 1 of 19

AMENDMENT TO THE INTERCONNECTION AGREEMENT BETWEEN DIECA COMMUNICATIONS, INC. D/B/A COVAD COMMUNICATIONS COMPANY and BELLSOUTH TELECOMMUNICATIONS, INC. DATED December 1, 1998

THIS AMENDMENT ("Amendment") is made by and between BellSouth Telecommunications, Inc. ("BellSouth") and DIECA COMMUNICATIONS, INC. d/b/a Covad Communications Company ("Covad"), as of the 25th day of April 2000. (BellSouth and Covad are collectively referred to as the "Parties".)

WHEREAS, the Parties executed an Interconnection Agreement on December 1, 1998. (the "Agreement"); and

WHEREAS, the Parties desire to amend the Agreement to set forth the terms and conditions relating to BellSouth providing to Covad unbundled access to the high frequency spectrum of BellSouth's local loops as a network element.

NOW, THEREFORE, for and in consideration of the promises contained herein, the parties to this Amendment, intending to be legally bound, hereby agree to amend Attachment 2 of the Agreement by adding the following:

GENERAL

- 1.0 BellSouth shall provide Covad access to the high frequency portion of the local loop as an unbundled network element ("High Frequency Spectrum Network Element" or "HUNE") at the rates set forth in Section 4 herein. BellSouth shall provide Covad with the HUNE irrespective of whether BellSouth chooses to offer xDSL services on the loop.
 - 1.1 The HUNE is defined as the frequency range above the voiceband on a copper loop facility carrying analog circuit-switched voiceband transmissions. Access to the HUNE is intended to allow Covad's the ability to provide Digital Subscriber Line ("xDSL") data services. The HUNE shall be available for any version of xDSL presumed acceptable for deployment pursuant to 47 C.F.R. Section 51.230, including, but not limited to, ADSL, RADSL, and any other xDSL technology that is presumed to be acceptable for deployment pursuant to FCC rules. BellSouth will continue to have access to the low frequency portion of the loop spectrum (from 300 Heriz to at least 3000 Hertz, and potentially up to 3400 Hertz, depending on equipment and facilities) for the purposes of providing voice service. Covad shall only use xDSL technology that is within the PSD mask parameters set forth in T1.413 or other applicable industry standards Covad shall provision xDSL service

on the HUNE in accordance with the applicable Technical Specifications and Standards.

1.2 The following loop requirements are necessary for Covad to be able to access the HUNE: an unconditioned, 2-wire copper loop. An unconditioned loop is a copper loop with no load coils, lowpass filters, range extenders, DAMLs, or similar devices and minimal bridged taps consistent with ANSI T1.413 and T1.601. The process of removing such devices is called "conditioning." BellSouth shall charge and Covad shall pay as interim rates, the same rates that BellSouth charges for conditioning stand-alone loops (c.g., unbundled copper loops, ADSL loops, and HDSL loops) until permanent pricing for loop conditioning is established either by mutual agreement or by a state public utility commission. The interim costs for conditioning arc subject to true up as provided in paragraph 4.0. BellSouth will condition loops to enable Covad to provide xDSL-based services on the same loops the incumbent is providing analog voice service, regardless of loop length. BellSouth is not required to condition a loop for shared-line xDSL if conditioning of that loop significantly degrades BellSouth's voice service. BellSouth shall charge, and Covad shall pay, for such conditioning the same rates BellSouth charges for conditioning stand-alonc loops (e.g., unbundled copper loops, ADSL loops, and HDSL loops.) If Covad requests that BellSouth condition a loop longer than 18,000 ft. and such conditioning significantly degrades the voice services on the loop, Covad shall pay for the loop to be restored to its original state.

- 1.3 Covad's meet point is the point of termination for Covad's or the toll main distributing frame in the central office ("Mcct Point"). BellSouth will use jumpers to connect the Covad's connecting block to the splitter. The splitter will route the HUNE on the circuit to the Covad's xDSL equipment in the Covad's collocation space.
- 1.4 Covad shall have access to the Splitter for test purposes, irrespective of where the Splitter is placed in the BellSouth premises.

PROVISIONING OF HUNE AND SPLITTER SPACE

- 2.0 BellSouth will provide Covad with access to the HUNE as follows:
 - 2.1 BellSouth is unable to obtain a sufficient number of splitters for placement in all central offices requested by competitive local exchange carriers ("CLECs") by June 6, 2000. Therefore, BellSouth, Covad and other CLECs have developed a process for

Exhibit TGW-11 Page 3 of 19

allocating the initial orders of splitters. BellSouth will install all splitters ordered on or before April 26, 2000, in accordance with the schedule set forth in Attachment 1 of this Agreement. Once all splitters ordered by all CLECs on or before April 26, 2000, have been installed, BellSouth will install splitters within forty-two (42) calendar days of Covad's submission of such order to the BellSouth Complex Resale Support Group; provided, however, that in the event BellSouth did not have reasonable notice that a particular central office was to have a splitter installed therein, the forty-two (42) day interval shall not apply. Collocation itself or an application for collocation will serve as reasonable notice. BellSouth and Covad will reevaluate this forty-two (42) day interval on or before August 1, 2000.

- 2.2 After June 6, 2000, once a splitter is installed on behalf of Covad in a central office, Covad shall be entitled to order the HUNE on lines served out of that central office.
- 2.3 BellSouth will select, purchase, install, and maintain a central office POTS splitter and provide Covad access to data ports on the splitter. In the event that BellSouth elects to use a brand of splitter other than Siecor, the Parties shall renegotiate the recurring and non-recurring rates associated with the splitter. In the event the Parties cannot agree upon such rates, the then current rates (final or interim) for the Siecor splitter shall be the interim rates for the new splitter. BellSouth will provide Covad with a carrier notification letter at least 30 days before of such change and shall work collaboratively with Covad to select a mutually agreeable brand of splitter for use by BellSouth. Covad shall thereafter purchase ports on the splitter as set forth more fully below.
- 2.4 BellSouth will install the splitter in (i) a common area close to the Covad collocation area, if possible; or (ii) in a BellSouth relay rack as close to the Covad DS0 termination point as possible. For purposes of this section, a common area is defined as an area in the central office in which both Parties have access to a common test access point. BellSouth will cross-connect the splitter data ports to a specified Covad DS0 at such time that a Covad end user's service is established.
- 2.5 The HUNE shall only be available on loops on which BellSouth is also providing, and continues to provide, analog voice service. In the event the end-user terminates its BellSouth provided voice service for any reason, and Covad desires to continue providing xDSL service on such loop, Covad shall be required to purchase the full stand-alone loop unbundled network element. In the event

BellSouth disconnects the end-user's voice service pursuant to its tarif's or applicable law, and Covad desires to continue providing xDSL service on such loop, Covad shall be required to purchase the full stand-alone loop unbundled network element.

- 2.6 Covad and BellSouth shall continue to work together collaboratively to develop systems and processes for provisioning the HUNE in various real life scenarios. BellSouth and Covad agree that Covad is entitled to purchase the HUNE on a loop that is provisioned over fiber fed digital loop carrier. BellSouth will provide Covad with access to feeder subloops at UNE prices. BellSouth and Covad will work together to establish methods and procedures for providing Covad access to the HUNE over fiber fed digital loop carriers by August 1, 2000.
- 2.7 Only one competitive local exchange carrier shall be permitted access to the HUNE of any particular loop.
- 2.8 To order HUNE on a particular loop, Covad must have a DSLAM collocated in the central office that serves the end-user of such loop. BellSouth will work collaboratively with Covad to create a concurrent process that allows Covad to order splitters in central offices where Covad is in the process of obtaining collocation space and enables BellSouth to install such splitters before the end of Covad's collocation provisioning interval. While that process is being developed, Covad may order splitters in a central office once it has installed its Digital Subscriber Line Access Multiplexer ("DSLAM") in that central office. BellSouth will install these splitters within the interval provided in paragraph 2.1.
- 2.9 BellSouth will devise a splitter order form that allows Covad to order splitter ports in increments of 24 or 96 ports.
- 2.10 BellSouth will provide Covad the Local Service Request ("LSR") format to be used when ordering the HUNE.
- 2.11 BellSouth will initially provide access to the HUNE within the following intervals: Beginning on June 6, 2000, BellSouth will return a Firm Order Confirmation ("FOC") in no more than two (2) business days. BellSouth will provide Covad with access to the HUNE as follows:
 - 2.11.1 For 1-5 lines at the same address within three (3) business days from the receipt of Covad's LSR; 6-10 lines at same address within 5 business days; and more than 10 lines at the same address is to be

Exhibit TGW-11 Page 5 of 19

negotiated. BellSouth and Covad will re-evaluate these intervals on or before August 1, 2000.

2.12 Covad will initially use BellSouth's existing pre-qualification functionality and order processes to pre-qualify line and order the HUNE. Covad and BellSouth will continue to work together to modify these functionalities and processes to better support provisioning the HUNE. BellSouth will use its best efforts to make available to Covad, by the fourth quarter of 2000, an electronic pre-ordering, ordering, provisioning, repair and maintenance and billing functionalities for the HUNE.

MAINTENANCE AND REPAIR

- 3.0 Covad shall have access, for test, repair, and maintenance purposes, to any loop as to which it has access to the HUNE. Covad may access the loop at the point where the combined voice and data signal exits the central office splitter.
 - 3.1 BellSouth will be responsible for repairing voice services and the physical line between the network interface device at the customer premise and the Meet Point of demarcation in the central office. Covad will be responsible for repairing data services. Each Party will be responsible for maintaining its own equipment.
 - 3.2 If the problem encountered appears to impact primarily the xDSL service, the end user should call Covad. If the problem impacts primarily the voice service, the end user should call BellSouth. If both services are impaired, the recipient of the call should coordinate with the other service provider(s).
 - 3.3 BellSouth and Covad will work together to diagnose and resolve any troubles reported by the end-user and to develop a process for repair of lines as to which Covad has access to the HUNE. The Parties will continue to work together to address customer initiated repair requests and other customer impacting maintenance issues to better support unbundling of HUNE.
 - 3.3.1 The Parties will be responsible for testing and isolating troubles on its respective portion of the loop. Once a Party ("Reporting Party") has isolated a trouble to the other Party's ("Repairing Party") portion of the loop, the Reporting Party will notify the Repairing Party that the trouble is on the Repairing Party's portion of the loop. The

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Repairing Party will take the actions necessary to repair the loop if it determines a trouble exists in its portion of the loop.

- 3.3.2 If a trouble is reported on either Party's portion of the loop and no trouble actually exists, the Repairing Party may charge the Reporting Party for any dispatching and testing (both inside and outside the central office) required by the Repairing Party in order to confirm the loop's working status.
- 3.4 In the event Covad's deployment of xDSL on the HUNE significantly degrades the performance of other advanced services or of BellSouth's voice service on the same loop, BellSouth shall notify Covad and allow twenty-four (24) hours to cure the trouble. If Covad fails to resolve the trouble, BellSouth may discontinue Covad's access to the HUNE on such loop.

PRICING

- BellSouth and Covad agree to the following negotiated, interim rates for the HUNE. All interim prices will be subject to true up based on either mutually agreed to permanent pricing or permanent pricing established in a line sharing cost proceeding conducted by state public utility commissions. In the event interim prices are established by state public utility commissions before permanent prices are established, either through arbitration or some other mechanism, the interim prices established in this Agreement will be changed to reflect the interim prices mandated by the state public utility commissions; however, no true up will be performed until mutually agreed to permanent prices are established or permanent prices are established by state public utility commissions. Once a docket in a particular state in BellSouth's region has been opened to determine permanent prices for the HUNE, BellSouth will provide cost studies for that state for the HUNE upon Covad's written request, within 30 days or such other date as may be ordered by a state commission. All cost related information shall be provided pursuant to a proprietary, nondisclosure agreement.
 - 4.1 BellSouth and Covad enter into this Agreement without waiving current or future relevant legal rights and without prejudicing any position BellSouth or Covad may take on relevant issues before state or federal regulatory or legislative bodies or courts of competent jurisdiction. This clause specifically contemplates but is not limited to: (a) the positions BellSouth or Covad may take in any cost docket related to the terms and conditions associated with access to the HUNE; and (b) the positions that BellSouth or Covad might take before the FCC or any state public utility commission related to the terms and conditions under which BellSouth must

provide Covad with access to the HUNE. The interim rates set forth herein were adopted as a result of a compromise between the parties and do not reflect either party's position as to final rates for access to the HUNE.

. . .

	RATES BY STATE									
DESCRIPTION	USOC	AL	FL	GA	KY	- LA	MS	NC	SC	TN
SYSTEM, SPLITTER - 96 LINE CAPACITY	ULSDA									
Monthly recurring		\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100
Non Recurring - 1st		\$300	\$150	\$300	\$300	\$300	\$300	\$300	\$300	\$300
Non Recurning - Add'l.		50	\$0	\$0	50	\$0	50	\$0	150	SO
Non Recurring - Disconnect Only		NA	\$150	NA	NA	NA	NA	NA	NA	NA
SYSTEM, SPLITTER - 24 LINE CAPACITY	ULSOB							1		
Monthly recutting		\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25
Non Recurring		\$300	\$150	\$300	\$300	\$300	\$300	\$300	\$300	\$300
Non Recurring - Add'l.		50	50	\$0	50	\$0	\$0	50	50	50
Non Recurning - Disconnect Only		NA	\$150	NA	NA	NA	NA	NA	NA	NA
LOOP CAPACITY, LINE ACTIVATION - PER OCCURRENCE	ULSDC									
Monthly recurring		\$5.00	56 00	\$6.00	\$6.00	\$5.00	56 00	\$6.00	\$5.00	\$6.00
Non Recurring - 1st		540	540	\$40	\$40	\$40	\$40	\$40	\$40	\$40
Non Recurring - Add's		\$22	\$22	\$22	\$22	522	\$22	\$22	\$22	\$22
SUBSEQUENT ACTIVITY	ULSDS		1				T			
Non Recurring - 1st		\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30
Non Recurring - Add'l.		\$15	\$15	\$15	\$15	\$15	\$15	1515	1515	\$15

- 4.2 Any element necessary for interconnection that is not identified above is priced as currently set forth in the Agreement.
- 5.0 BellSouth shall make available to Covad any agreement for the HUNE entered into between BellSouth and any other CLEC. If Covad elects to adopt such agreement, Covad shall adopt all rates, terms and conditions relating to the HUNE in such agreement.
- 6.0 In the event of a conflict between the terms of this Amendment and the terms of the Interconnection Agreement, the terms of this Amendment shall prevail.
- 7.0 All of the other provisions of the Agreement shall remain in full force and effect.
- 8.0 Either or both of the Parties is authorized to submit this Amendment to the respective state regulatory authorities for approval subject to Section 252(e) of the Federal Telecommunications Act of 1996.

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IN WITNESS WHEREOF, the Parties hereto have caused this Amendment to be executed by their respective duly authorized representatives on the date indicated below.

DIECA COMMUNICATIONS, INC. d/b/a Covad Communications Company

By: 16 l **e** G -

Name: Dhruv Khanna

Title: <u>Executive Vice President and</u> General Counsel Date: <u>4-24-00</u> BellSouth Telecommunications, Inc.

ì By:

Name: Jerry Hendrix

Title: Senior Director Date: 24

ATTACHMENT 1

CLEC/BellSouth Line Sharing Jointly Developed

Rules for Splitter Allocation

BellSouth is unable to obtain a sufficient number of splitters for placement in all central offices requested by competitive local exchange carriers ("CLECs") by June 6, 2000. As a result of the current shortage of splitters, CLECs and BellSouth developed the following rules for splitter allocation. These rules shall apply until such time as those CLECs participating in the creation of the rules agree that the regular splitter installation rules should apply.

- 1. There shall be a single CLEC priority list of central offices that shall consist of the Georgia CLEC priority list combined with the priority list from the other states in BellSouth's nine-state region (the "Priority List"). This priority list shall be used for filling orders; it shall determine the order in which splitters will be deployed in those central offices for which splitters have been ordered. Georgia central offices (CO) will have priority over other state's COs. The Priority List is attached hereto.
- 2. During the allocation period, a CLEC may order 24 ports or 96 ports. In either event, BellSouth shall install a 96 port splitter in accordance with the Priority List. However, during the allocation period, in the event a CLEC orders 96 ports, BellSouth will only allocate 24 ports of the 96 port splitter to the first CLEC that orders a splitter for that central office, thus creating a backlog of 72 ports that have already been ordered by that CLEC ("Backlog"). In the event of a Backlog, BellSouth will charge CLEC a monthly recurring charge appropriate for the number of ports allocated to CLEC. In addition, if CLEC requested a 96 port splitter, it shall pay a non-recurring charge for a 96 port splitter, but shall pay no non-recurring charges when additional ports are added to alleviate the Backlog.
- 3. BellSouth will allocate, on a first-comc/first-served basis, the remaining 72 ports of the splitter (in blocks of 24 ports) to the other CLECs that place an order for a splitter at that same central office.

Orders Submitted by April 26, 2000 with Duc Date of June 6, 2000 or Sooner

4. A firm order for a splitter issued to the BellSouth Complex Resale Support Group (CRSG) on or by April 26, 2000, with due date of June 6, 2000, or sooner, will be given priority over orders received after April 26, 2000.

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Orders for the first 200 splitters received prior to April 26, 2000, will be installed on or before June 5, 2000, and shall be installed in accordance with the priority list. The first 25 splitter orders shall be installed no later than May 22, 2000.

- 5. In the event CLECs submit to BellSouth more than 200 splitter orders on or before April 26, 2000, BellSouth shall install fifty (50) splitters a week each week after June 5, 2000.
- 6. In the event there are more than four (4) orders submitted on or before April 26, 2000, for a splitter at a particular central office, a second splitter will be installed at that central office in accordance with the Priority List.
- 7. Backlogs associated with orders submitted on or before April 26, 2000 will be fulfilled in their entirety before any orders received after April 26, 2000 are worked. In fulfilling a Backlog, the CLEC's additional ports may not be on the same shelf as the initial 24 ports.

Orders Received after April 26, 2000

- 8. Irrespective of the Priority List, no orders received after April 26, 2000, will be worked until after all orders received on or before April 26, 2000 have been completed.
- Once all orders received on or before April 26, 2000, have been worked in their entirety, orders received after April 26, 2000, will have a minimum interval of forty-two (42) calendar days from date of receipt.

Orders Submitted with Duc Dates After June 6, 2000

 Any order submitted on or before April 26, 2000, with a due date of after June 6, 2000, will be completed according to the due date provided there is available inventory and all orders with a due date of June 6, 2000 or carlier have been completed.

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Georgia Rating/Ranking of Central Offices for Linesharing

March 9, 2000

- -

Covad, Rythms, Northpoint, New Edge

	Combined
CLLI	Ranking
MRTTGAMA	1
RSWLGAMA	2
ATLNGABU	3
ATLNGAPP	4
DLTHGAHS	5
ATLNGASS	6
CHMBGAMA	7
AGSTGAAU	8
LRVLGAOS	9
MRTTGAEA	10
SMYRGAMA	11
LLBNGAMA	12
WDSTGACR	13
ATHNGAMA	14
AGSTGAFL	15
AGSTGATH	18
JNBOGAMA	17
NRCRGAMA	18
ATLNGATH	19
ALPRGAMA	20
DNWDGAMA	21
CMNGGAMA	22
AGSTGAMT	23
ALBYGAMA	23 24
GSVLGAMA	25
SNLVGAMA	26
ATLNGAIC	27
ATLNGAEP	28
TUKRGAMA	29
ROMEGATL	30
VLDSGAMA	31
MACNGAMT	. 32
ASTLGAMA	33
SMYRGAPF	34
DGVLGAMA	35
ATLNGAEL	36
SNMTGALR	37
CNYRGAMA	38.
MACNGAVN	39
WRRBGAMA	40
NWNNGAMA	41
ATLNGAWD	42
GRFNGAMA	43
PANLGAMA	44
BUFRGABH	45

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ATLNGACD	46			Exhibit TGW-11 Page 12 of 19
MACNGAGP	47			-
SVNHGABS	48			
ATLNGACS	49			
PTCYGAMA	50			
RVDLGAMA	51			
STBRGANH	52			
MCDNGAGS	53			
ATLNGAWE	54			
SVNHGADE	55			
SVNHGAWB	56			
ATLNGAGR	57			
ATLNGAAD	58			
CRVLGAMA	59			
ACWOGAMA	60			
ATLNGABH	61			
FYVLGASG	62			
SVNHGAGC	63			
SVNHGAWI	84			
ATLNGAFP	65			
ATLNGAHR	66			
PWSPGAAS	67	•		
CRTNGAMA	68			
ATLNGALA	69			
MRRWGAMA	70			•
CLMBGAMT	71			
CLMBGAMW	72			
LTHNGAJS	73		•	
CVTNGAMT	74			
DLLSGAES	75			
FRBNGAEB	76			
CLMBGABV	77			
BRWKGAMA	78			
ATLNGAQS	79			•
CNTNGAXB	80			
LGVLGACS	81			
SSISGAES	82			
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BeliSouth Central Offices (All states excluding GA)

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		Combined
Ref. # CLLI	State	CLEC Rank
312TPRRNFLMA	TFL	1
1330 MMPHTNBA	TN	2
1362 NSVLTNMT	TN	3
202 GSVLFLNW	FL	6
1 ALBSALMA	AL	5
13 BRHMALCH	AL	6
268 MLBRFLMA	FL	7
1337 MMPHTNMA	TN	8
285 ORLDFLAP	IFL	ġ
1335 MMPHTNGT	TN	10
208 HLWDFLPE		11
289 ORLDFLPH		12
1333 MMPHTNEL	ITN	13
324 STRTFLMA	FL	14
14 BRHMALCP	AL	15
15 BRHMALEL		16
1240 CHTGTNNS	TN	17
1339IMMPHTNOA	ITN	18
1073 RLGHNCSI	INC	19
299 PMBHFLCS	IFL	20
69BINWORLASW	LA I	22
1354 NSVLTNBW	TN	23
1309 KNVLTNMA	TN	23
16BRHMALEN	AL	25
17 BRHMALEW	AL.	26
1345 MRBOTNMA	TN	27
1364 NSVLTNUN	TN	28
623 KNNRLABR	14	29
984 CARYNCCE	INC	30
333 WPBHFLGA	IFL.	31
1356INSVLTNCH	ITN	32
1363 NSVLTNST	TN	33
429 LSVLKYAP	XY	34
2018RHMALHW	AL	35
21 BRHMALMT	TAL	36
638 LEYTLAMA	LA	37
1306 KNTNTNMA	TN	38
693 NWORLAMT	LA	39
149 BCRTFLMA	FL	40
150 BCRTFLSA	FL	41
1340 MMPHTNSL	TN	42
1338 MMPHTNMT	TN	43
307 PNSCFLFP	FL	44
22 BRHMALOM	AL	45
23 BRHMALOX	AL	46
176 DYBHFLMA	FL	47
1352 NSVLTNAP	TN	48
1332 MMPHTNCT	TN	<u> 49</u>
334 WPBHFLGR	FL	50
249 MIAMELCA	FL	51
732 SLIDLAMA	LA	52
1307 KNVLTNBE	TN	53
24 BRHMALRC	AL	54
26 BRHMALVA		55
196 FTPRFLMA	IFL	56
ANTE LETTERINA	11.5	57

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		•	Combined
Ref. #	CLLI	State	CLEC Rank
1272	FKLNTNMA	TN	58
695	NWORLARV	LA	59
the second s	GNBONCAS	NC	60
	RLGHNCGL	NC	61
692	NWORLAMR	LA	62
	KNVLTNWH	TN	63
	DYBHFLPO	FL	64
the second s	BSMRALMA	AL	65
_	BCRTFLBT	IFL	66
and the second second	JPTRFLMA	FL	67
	NSVLTNDO	TN	68
	NWORLASK		69
_	FTLDFLJA	FL	70
	MIAMFLRR		71
	ORLDFLPC	FL	72
	NSVLTNMC	TN	73
	MONRLAMA		74
	MNFDLAMA		75
	BYBHFLMA	FL	76
_	DLBHFLKP	LA	77
_			78
	CHTGTNDT	TN	79
232	JCVLFLWC	FL	80
	MIAMFLHL	IFL	81
<u>988</u> 431	CHRLNCCE	NC	82
	LSVLKYBR NSVLTNBV	KY TN	83
1158	FLANSCMA		84
	DLBHFLMA	ISC	85
	DREHFLMA	FL	87
	MAVLTNMA	TN	88
	NSVLTNGH	TN	89
230	JCVLFLSJ	FL	90
301	PMBHFLMA	FL	91
265	MIAMFLWD	IFL.	92
287	ORLDFLMA	IFL	93
1366	NSVLTNWM	TN	94
164	COCOFLMA	FL	95
187	FTLDFLCR	FL	96
188	FTLDFLCY	FL	97
330	VRBHFLMA	FL	98
1280	GOVLTNMA	TN	99
696	NWORLASC	LA	100
264	MIAMFLSO	FL	101
	CHRLNCCR	NC	102
	NWORLAAR	LA	103
	KNVLTNYH	TN	104
	BTRGLAMA	LA	105
190	FTLDFLMR	FL	106
	FTLOPTOA-	LEL.	107
1250	CLVLTNMA		108
	CHRENCCA	NC	109
	LSVLKYBE WPBHFLRP	KY FL	110
	MNDRFLLO		111
	JCVLFLRV	FL	112
1020	GNBONCEU	INC	113
304	PNSCFLBL	INC .	114
	FILDFLPL	FL	115
		11 P	116

			Combined
Rof. #	CLLI	State	CLEC Rank
	FTLDFLSU	IFL	117
	CHTGTNBR	TN	118
986	CHRLNCBO	NC	119
687	NWORLACM	LA	120
1004	CPHLNCRO	INC	121
209	HLWDFLWH	FL	122
1341	MMPHTNST	TN	123
996	CHRLNCSH	NC	124
848	JCSNMSCP	MS	125
195	FTLOFLWN	FL	126
206	HLWDFLHA	FL	127
969	AHVLNCOH	NC	128
995	CHRLNCRE	NC	129
227	JCVLFLNO	FL	130
	LSVLKYWE	KY	131
1069	RLGHNCHO	NC	132
436	LSVLKYOA	KY	133
	CHRLNCLP	NG	134
	BWLGKYMA	KY	135
	HLWDFLMA	FL	136
the second se	JCBHFLMA	FL	137
the state of the s	PNCYFLMA	FL	138
	GNBONCLA	NC	139
	JCVLFLAR	FL	140
	WPBHFLHH	FL	141
	SNERELMA	FL	142
_	LSVLKYSM	KY	143
	JCVLFLCL	FL	144
	TSCLALMT	AL	145
	JCVLFLBW	FL	146
		FL	147
The second s	CLEVTNMA	TN	148
-	GSVLFLMA	FL	149
	NWORLAMC	LA	150
	PMBHFLFE	FL	151
	OVIDFLCA	FL	152
	FKTNLAMA	LA	153
		FL	154
the second se	MTGMALMT	AL	155
	MIAMFLAE	FL	156
Jan and the second s	MIAMFLAP	FL	157
	DCTRALMT	AL	158
	JCBHFLAB	FL	159
and the second se	ORLDFLCL	FL	160
	WNSLNCVI	NC	161
In succession in the local division in the l	LSVLKYAN	KY	162
the second se	BURLNCOA	NC	163
	MOBLALSH	AL	164
	PTSLFLMA	FL	165
	MIAMFLBA	FL	166
	MIAMFLBR	FL	167
	HNVIALMT	AL	168
	BRHMALFS	AL	169
	NWORLAMA	LA	170
	HDVLTNMA	TN	171
	ORLDFLSA	FL	172
	GSTANCSO	NC	173
	MOBLALAZ	AL	174
	SUVLSCMA	SC	175

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		Chaha	Combined
Rof. #	CLLI	Slate	CLEC Rank
	MIAMFLFL	FL	176
	MIAMFLGR	IFL	177
and the second se	CHTNSCWA	ISC	178
	MOBLALOS	AL	179
	PNSNALMA	AL	180
	MTOLNCCE	NC	181
	RLGHNCJO	NC	182
	WNSLNCF	INC	183
	HNVIALPW	AL	184
The second se	OWBOKYMA	KY	185
	MIAMFLIC	FL	186
	CHTNSCDP	ISC	187
	MIAMFLKE	FL	188
	CLMASCSH	SC	189
the second s	LSVLKYVS	KY	100
	PNVDFLMA	IFL	191
277	NDADFLBR	FL	192
	LBNNTNMA	TN	193
1166	GNVLSCDT	SC	194
281	NSBHFLMA	FL	195
256	MIAMFLME	FL	198
257	MIAMFLNM	FL	197
558	BTRGLAOH	LA	198
1126	CHTNSCDT	SC	199
33	BSMRALHT	IAL	200
337	WPBHFLRB	FL	201
	ORPKELMA	FL	202
	CHRLNCTH	INC	203
	GNVLSCWR	ISC	204
327	TTVLFLMA	FL	205
	MIAMFLPB	FL	206
the second s	MIAMFLPL	FL	207
849	JCSNMSMB	MS	208
	MNPLSCES	SC	209
577		LA	210
	NDADFLOL	FL	211
998	CHRLNCUN	INC	212
1071	BI GHNCHO	INC	213
1130	CHINSCHO	SC	214
310	PNSCFLWA	FL	215
276	NDADFLAC	IFL	215
2/0	MIAMFLWM	IFL	210
-	DYBHFLOB		
		IFL	218
	CLMASCSA	SC	219
000	NWORLACA		220
	RLGHNCGA	NC	221
	WPBHFLLE	FL	222
	KNNRLAHN	LA	223
1207	SPBGSCMA	SC	224
	SLBRNCMA	NC	225
	NDADFLGG	FL	226
302	PMBHFLTA	FL	227
	CLMASCSW	SC	228
440	LSVLKYTS	KY	229
1257	CRTHTNMA	TN	230
28	BRHMALWL	IAL.	231
435	LSVLKYJT	KY	232
	LEYTLAVM	LA	233
332	WPBHFLAN	FL	234

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		Combined
Rel.# CLLI	State	CLEC Rank
1369 OKRGTNMT	ITN	235
126 HNVIALUN	AL	236
438 LSVLKYSL	KY	237
483 PMBRKYMA	KY	238
292 ORPKELRW	FL	239
559 BTRGLASB	TLA	240
729 SHPTLAMA	tis-	241
433 LSVLKYFC	TXY	242
	IKY	243
432 LSVLKYCW	TN	244
1300 JCSNTNMA	the second second	245
561 BTRGLAWN		245
1101 WNSLNCLE	INC	
1277 GALLTNMA	TN	247
556 BTRGLAIS	LA	248
726 SHPTLABS	LA	249
689 NWORLALK	LA	250
1254 CNVLTNMA	TN	251
642 LKCHLADT	LA	252
727 SHPTLACL	LA	253
1388 SMYRTNMA	TN	254
1262 DKSNTNMT	TN	255
728 SHPTLAHD	ILA	256
1031 HNVLNCCH	NC	257
971 APEXNCCE	INC	258
990 CHRLNCDE	INC	259
1346IMRTWTNMA	TN	260
852 JCSNMSRW	MS	261
		262
1394 SPFDTNMA	TN	
665 MNVLLAMA	LA	263
1023 GNBONCMC	INC	264
1106 AIKNSCMA	SC	265
901 CHRLNCER	INC	266
1072 RLGHNCSB	NC	267
645 LKCHLAUN	LA	268
1045 LNTNNCMA	INC	269
263 MIAMFLSH	FL	270
1017 GLBONCMA	NC	271
1308 KNVLTNFC	TN	272
1135 CLMASCCH	SC	273
1100 WNSLNCGL	INC	274
824 GLPTMSTS	MS	275
258 MIAMFLNS	FL	276
67 MTGMALNO	AL	277
259 MIAMFLOL	FL	278
1398 SVVLTNMT	TN	279
993 CHRLNCMI	NC	280
1085 SSVLNCMA	NC	281
982 BURLNCEL	NC	282
731 SHPTLASG	LA -	283
1024 GNBONCPG	- NC	283
74 PHCYALMA	IAL	285
244 MIAMFLAL	FL	and the second se
296 PCBHFL		286
EYOIPUBHPL'	TFL	287
1037 KNDLNCUE	NC	288
185 COCOFLME	FL	289
434 LSVLKYHA	KY	290
	1840	291
838 HTBGMSMA	MS	
		292

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			Combined
Ref. #	CLLI	State	CLEC Rank
	DVSNNCPO	INC	294
	DNSPLAMA	ILA	295
	WNSLNCCL	NC	296
	AUBNALMA	AL	297
	SREDNCCE	INC	298
	FRETKYMA	KY	299
	MIAMFLEC	IFL	300
	CLMATNMA	ITN	301
		INC	302
	GNBONCAP		
the second second	CLMASCDF	SC	303
	ZBLNNCCE	NC	304
	STAGFLMA		305
_	WNDLNCPI	NC	306
	JCSNMSBL	MS	307
11	BLFNALMA	AL	308
427	LSVLKY26	KY	309
193	FTLOFLSG	FL	310
1242	CHTGTNRO	TN	311
	HMSTFLNA	FL	312
the second s	CCBHFLMA	FL	313
	CARYNEWS	INC	314
-		and the second se	315
	BTRGLASW		the second s
	PAHKFLMA	FL	316
	CLMASCAR	SC	317
and the second se	MIAMFLOB	FL	318
the second s	HNVIALLW	AL	319
	RLGHNCDU	NC	320
1142	CLMASCSU	ŚC 🛛	321
210	HMSTFLEA	FL	322
154	BLGLFLMA	IFL.	323
1258	CRYLTNMA	TN	324
851	JCSNMSPC	MS	325
the second s	CHTGTNRB	TN	326
	MGTNNCGR	INC	327
the second s	TSCLALDH	AL	328
ADD	HNVIALRA	AL	329
	SHPTLAOB	-	
_	BOONNCKI		330
		INC	331
	HTBGMSWE	MS	332
	ATHNALMA	AL	333
	HMNDLAMA	LA	334
	MOSNMSES	MS	335
71	OPLKALMT	AL	336
	BILXMSED	MS	337
269	MLTNFLRA	FL	338
1301	JCSNTNNS	ITN	339
	MOBLALPR	AL	340
	BTRGLABK	LA	341
	JCSNMSCB	MS	342
	LSVLKYSH	KY	343
	CHTNSCLB	SC	
402	RCMDKYMA	KY	
	HNSNKYMA	KY	345
	LENRNCHA		346
		NC	347
1190	NAGSSCMA	SC	348
	PRVLALMA	AL	349
213	HTISFLMA	FL	350
972	ARDNNCCE	NC	351
200	GLBRFLMC	IFL	352

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Ref. #	CLU	Slate	CLEC Rank
823	GLPTMSLY	IMS	353
	PTSLFLSO	FL	354
	MOBLALAP	AL	355
1127	CHTNSCJM	SC	356
	DCSPMSGO	MS	357
	TSCLALNO	AL	358
	SBSTFLMA	IFL	359
527	WNCHKYMA	KY	360
	MOBLALSF	AL	361
	CHTGINMV	TN	362
	GLBONCAD	INC	363
	BILXMSMA	MS	364
1400	TLLHTNMA	ITN	365
	FRHPALMA	AL.	366
the second se	NWPTTNMT	TN	367
	MOBLALSA	AL	368
	MONRLADS	LA	369
	MONRLAWM	LA	370
	MOBLALSE	AL	371
	GRTWKYMA	KY	372
	AHVLNCOT	NC	373
	SHVLTNMA	TN	374
	BRNDMSES	MS	375
	WNCHTNMA	ITN	376
	MSCTTNMT	TN	377
	LNCYTNMA	TN	378
	LYHNFLOH	IFL	379
	PLSKTNMA	TTN	380
	LRBGTNMA	TN	381
_	BTRGLAHR	LA	382
	PACEFLPV	IFL.	383
	JCSNMSNR	IMS	384
	CHTGTNSE	TTN	385
	HBSDFLMA	FL	386
	LXTNTNMA	TN	387
	MNCHTNMA	TN	388
	CLINTNMA	TN	389
	STAGFLSH	FL	390
	LENRNCHU	INC	391
	PNSCFLHC	FL	392
1285	GTEGTNMT	TN	393
968	AHVLNCBI	INC	394
1238	CHTGTNHT	TN	395
304	PNCYFLCA	FL ·	396

EXHIBIT TGW - 12

Amendment to the Interconnection Agreement Between New Edge Network, Inc. and BellSouth

AMENDMENT TO THE INTERCONNECTION AGREEMENT BETWEEN NEW EDGE NETWORK, INC. D/B/A NEW EDGE NETWORKS and BELLSOUTH TELECOMMUNICATIONS, INC. DATED SEPTEMBER 27, 1999

THIS AMENDMENT ("Amendment") is made by and between BellSouth Telecommunications, Inc. ("BellSouth") and New Edge Network, Inc. d/b/a New Edge Networks ("New Edge"), as of the 27th day of April 2000. (BellSouth and New Edge are collectively referred to as the "Parties".)

WHEREAS, the Parties executed an Interconnection Agreement on September 27, 1999 (the "Agreement"); and

WHEREAS, the Parties desire to amend the Agreement to set forth the terms and conditions relating to BellSouth providing to New Edge unbundled access to the high frequency spectrum of BellSouth's local loops as a network element.

NOW, THEREFORE, for and in consideration of the promises contained herein, the parties to this Amendment, intending to be legally bound, hereby agree to amend Attachment 2 of the Agreement by adding the following:

GENERAL

- 1.0 BellSouth shall provide New Edge access to the high frequency portion of the local loop as an unbundled network element ("High Frequency Spectrum Network Element" or "HUNE") at the rates set forth in Section 4 herein. BellSouth shall provide New Edge with the HUNE irrespective of whether BellSouth chooses to offer xDSL services on the loop.
 - 1.1 The HUNE is defined as the frequency range above the voiceband on a copper loop facility carrying analog circuit-switched voiceband transmissions. Access to the HUNE is intended to allow New Edge the ability to provide Digital Subscriber Line ("xDSL") data services. The HUNE shall be available for any version of xDSL presumed acceptable for deployment pursuant to 47 C.F.R. Section 51.230, including, but not limited to, ADSL, RADSL, and any other xDSL technology that is presumed to be acceptable for deployment pursuant to FCC rules. BellSouth will continue to have access to the low frequency portion of the loop spectrum (from 300 Hertz to at least 3000 Hertz, and potentially up to 3400 Hertz, depending on equipment and facilities) for the purposes of providing voice service. New Edge shall only use xDSL technology that is within the PSD mask parameters set forth in T1.413 or other applicable industry standards. New Edge shall provision xDSL service on the HUNE in accordance with the applicable Technical Specifications and Standards.

- The following loop requirements are necessary for New Edge to be 1.2 able to access the HUNE: an unconditioned, 2-wire copper loop. An unconditioned loop is a copper loop with no load coils, lowpass filters, range extenders, DAMLs, or similar devices and minimal bridged taps consistent with ANSI T1.413 and T1.601. The process of removing such devices is called "conditioning." BellSouth shall charge and New Edge shall pay as interim rates, the same rates that BellSouth charges for conditioning stand-alone loops (e.g., unbundled copper loops, ADSL loops, and HDSL loops) until permanent pricing for loop conditioning is established either by mutual agreement or by a state public utility commission. The interim costs for conditioning are subject to true up as provided in paragraph 4.0. BellSouth will condition loops to enable New Edge to provide xDSL-based services on the same loops the incumbent is providing analog voice service, regardless of loop length. BellSouth is not required to condition a loop for shared-line xDSL if conditioning of that loop significantly degrades BellSouth's voice service. BellSouth shall charge, and New Edge shall pay, for such conditioning the same rates BellSouth charges for conditioning stand-alone loops (e.g., unbundled copper loops, ADSL loops, and HDSL loops.) If New Edge requests that BellSouth condition a loop longer than 18,000 ft. and such conditioning significantly degrades the voice services on the loop, New Edge shall pay for the loop to be restored to its original state.
- 1.3 New Edge's meet point is the point of termination for New Edge or the toll main distributing frame in the central office ("Meet Point"). BellSouth will use jumpers to connect the New Edge's connecting block to the splitter. The splitter will route the HUNE on the circuit to the New Edge's xDSL equipment in New Edge's collocation space.
- 1.4 New Edge shall have access to the Splitter for test purposes, irrespective of where the Splitter is placed in the BellSouth premises.

PROVISIONING OF HUNE AND SPLITTER SPACE

- 2.0 BellSouth will provide New Edge with access to the HUNE as follows:
 - 2.1 BellSouth is unable to obtain a sufficient number of splitters for placement in all central offices requested by competitive local exchange carriers ("CLECs") by June 6, 2000. Therefore, BellSouth, New Edge and other CLECs have developed a process

for allocating the initial orders of splitters. BellSouth will install all splitters ordered on or before 3PM CST, April 28, 2000, in accordance with the schedule set forth in Attachment 1 of this Agreement. Once all splitters ordered by all CLECs on or before April 28, 2000, have been installed, BellSouth will install splitters within forty-two (42) calendar days of New Edge's submission of such order to the BellSouth Complex Resale Support Group; provided, however, that in the event BellSouth did not have reasonable notice that a particular central office was to have a splitter installed therein, the forty-two (42) day interval shall not apply. Collocation itself or an application for collocation will serve as reasonable notice. BellSouth and New Edge will reevaluate this forty-two-(42) day interval on or before August 1, 2000.

- 2.2 After June 6, 2000, once a splitter is installed on behalf of New Edge in a central office, New Edge shall be entitled to order the HUNE on lines served out of that central office.
- 2.3 BellSouth will select, purchase, install, and maintain a central office POTS splitter and provide New Edge access to data ports on the splitter. In the event that BellSouth elects to use a brand of splitter other than Siecor, the Parties shall renegotiate the recurring and non-recurring rates associated with the splitter. In the event the Parties cannot agree upon such rates, the then current rates (final or interim) for the Siecor splitter shall be the interim rates for the new splitter. BellSouth will provide New Edge with a carrier notification letter at least 30 days before of such change and shall work collaboratively with New Edge to select a mutually agreeable brand of splitter for use by BellSouth. New Edge shall thereafter purchase ports on the splitter as set forth more fully below.
- 2.4 BellSouth will install the splitter in (i) a common area close to the New Edge collocation area, if possible; or (ii) in a BellSouth relay rack as close to the New Edge DS0 termination point as possible. For purposes of this section, a common area is defined as an area in the central office in which both Parties have access to a common test access point. BellSouth will cross-connect the splitter data ports to a specified New Edge DS0 at such time that a New Edge end user's service is established.
- 2.5 The HUNE shall only be available on loops on which BellSouth is also providing, and continues to provide, analog voice service. In the event the end-user terminates its BellSouth provided voice service for any reason, and New Edge desires to continue providing xDSL service on such loop, New Edge shall be required to purchase the full stand-alone loop unbundled network element.

Page 4 of 20 In the event BellSouth disconnects the end-user's voice service pursuant to its tariffs or applicable law, and New Edge desires to continue providing xDSL service on such loop, New Edge shall be required to purchase the full stand-alone loop unbundled network element.

Exhibit TGW-12

- 2.6 New Edge and BellSouth shall continue to work together collaboratively to develop systems and processes for provisioning the HUNE in various real life scenarios. BellSouth and New Edge agree that New Edge is entitled to purchase the HUNE on a loop that is provisioned over fiber fed digital loop carrier. BellSouth will provide New Edge with access to feeder subloops at UNE prices. BellSouth and New Edge will work together to establish methods and procedures for providing New Edge access to the HUNE over fiber fed digital loop carriers by August-1, 2000.
- 2.7 Only one competitive local exchange carrier shall be permitted access to the HUNE of any particular loop.
- 2.8 To order HUNE on a particular loop, New Edge must have a DSLAM collocated in the central office that serves the end-user of such loop. BellSouth will work collaboratively with New Edge to create a concurrent process that allows Covad to order splitters in central offices where Covad is in the process of obtaining collocation space and enables BellSouth to install such splitters before the end of Covad's collocation provisioning interval. While that process is being developed, New Edge may order splitters in a central office once it has installed its Digital Subscriber Line Access Multiplexer ("DSLAM") in that central office. BellSouth will install these splitters within the interval provided in paragraph 2.1.
- 2.9 BellSouth will devise a splitter order form that allows New Edge to order splitter ports in increments of 24 or 96 ports.
- 2.10 BellSouth will provide New Edge the Local Service Request ("LSR") format to be used when ordering the HUNE.
- 2.11 BellSouth will initially provide access to the HUNE within the following intervals: Beginning on June 6, 2000, BellSouth will return a Firm Order Confirmation ("FOC") in no more than two (2) business days. BellSouth will provide New Edge with access to the HUNE as follows:
 - 2.11.1 For 1-5 lines at the same address within three (3) business days from the receipt of New Edge's LSR;

6-10 lines at same address within 5 business days; and more than 10 lines at the same address is to be negotiated. BellSouth and New Edge will reevaluate these intervals on or before August 1, 2000.

2.12 New Edge will initially use BellSouth's existing pre-qualification functionality and order processes to pre-qualify line and order the HUNE. New Edge and BellSouth will continue to work together to modify these functionalities and processes to better support provisioning the HUNE. BellSouth will use its best efforts to make available to New Edge, by the fourth quarter of 2000, an electronic pre-ordering, ordering, provisioning, repair and maintenance and billing functionalities for the HUNE.

MAINTENANCE AND REPAIR

- 3.0 New Edge shall have access, for test, repair, and maintenance purposes, to any loop as to which it has access to the HUNE. New Edge may access the loop at the point where the combined voice and data signal exits the central office splitter.
 - 3.1 BellSouth will be responsible for repairing voice services and the physical line between the network interface device at the customer premise and the Meet Point of demarcation in the central office. New Edge will be responsible for repairing data services. Each Party will be responsible for maintaining its own equipment.
 - 3.2 If the problem encountered appears to impact primarily the xDSL service, the end user should call New Edge. If the problem impacts primarily the voice service, the end user should call BellSouth. If both services are impaired, the recipient of the call should coordinate with the other service provider(s).
 - 3.3 BellSouth and New Edge will work together to diagnose and resolve any troubles reported by the end-user and to develop a process for repair of lines as to which New Edge has access to the HUNE. The Parties will continue to work together to address customer initiated repair requests and other customer impacting maintenance issues to better support unbundling of HUNE.
 - 3.3.1 The Parties will be responsible for testing and isolating troubles on its respective portion of the loop. Once a Party ("Reporting Party") has isolated a trouble to the other

Party's ("Repairing Party") portion of the loop, the Reporting Party will notify the Repairing Party that the trouble is on the Repairing Party's portion of the loop. The Repairing Party will take the actions necessary to repair the loop if it determines a trouble exists in its portion of the loop.

- 3.3.2 If a trouble is reported on either Party's portion of the loop and no trouble actually exists, the Repairing Party may charge the Reporting Party for any dispatching and testing (both inside and outside the central office) required by the Repairing Party in order to confirm the loop's working status.
- 3.4 In the event New Edge's deployment of xDSL on the HUNE significantly degrades the performance of other advanced services or of BellSouth's voice service on the same loop, BellSouth shall notify New Edge and allow twenty-four (24) hours to cure the trouble. If New Edge fails to resolve the trouble, BellSouth may discontinue New Edge's access to the HUNE on such loop.
- 4.0 BellSouth and New Edge agree to the following negotiated, interim rates for the HUNE. All interim prices will be subject to true up based on either mutually agreed to permanent pricing or permanent pricing established in a line sharing cost proceeding conducted by state public utility commissions. In the event interim prices are established by state public utility commissions before permanent prices are established, either through arbitration or some other mechanism, the interim prices established in this Agreement will be changed to reflect the interim prices mandated by the state public utility commissions; however, no true up will be performed until mutually agreed to permanent prices are established or permanent prices are established by state public utility commissions. Once a docket in a particular state in BellSouth's region has been opened to determine permanent prices for the HUNE, BellSouth will provide cost studies for that state for the HUNE upon New Edge's written request, within 30 days or such other date as may be ordered by a state commission. All cost related information shall be provided pursuant to a proprietary, non-disclosure agreement.
 - 4.1 BellSouth and New Edge enter into this Agreement without waiving current or future relevant legal rights and without prejudicing any position BellSouth or New Edge may take on relevant issues before state or federal regulatory or legislative bodies or courts of competent jurisdiction. This clause specifically contemplates but is not limited to: (a) the positions BellSouth or New Edge may take in any cost docket related to the terms and

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conditions associated with access to the HUNE; and (b) the positions that BellSouth or New Edge might take before the FCC or any state public utility commission related to the terms and conditions under which BellSouth must provide New Edge with access to the HUNE. The interim rates set forth herein were adopted as a result of a compromise between the parties and do not reflect either party's position as to final rates for access to the HUNE.

1		RATES BY STATE								
DESCRIPTION	USOC	AL	FL	GA	KY	LA	MS	NC	SC	TN
SYSTEM, SPLITTER - 96 LINE CAPACITY	ULSDA									
Monthly recurring		\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100
Non Recurring - 1st		\$300	\$150	\$300	\$300	\$300	\$300	\$300	\$300	\$300
Non Recurring - Add'l.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Non Recurring - Disconnect Only		NA	\$150	NA	NA	NA .	NA	NA	NA	NA
SYSTEM, SPLITTER - 24 LINE CAPACITY	ULSD8		T							
Monthly recurring		\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25
Non Recurring		\$300	\$150	\$300	\$300	\$300	\$300	\$300	\$300	\$300
Non Recurring - Add'l.		50	\$0	\$0	\$0	\$0	\$0	50	\$0	\$0
Non Recurring - Disconnect		NA	\$150	NA						
LOOP CAPACITY, LINE ACTIVATION - PER OCCURRENCE	ULSDC									
Monthly recurring		\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00
Non Recurring - 1st		\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40
Non Recurring - Add'l.		\$22	\$22	\$22	\$22	\$22	\$22	\$22	\$22	\$22
SUBSEQUENT ACTIVITY - PER OCCURRENCE -	ULSDS									
Non Recurring - 1st		\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30
Non Recurring - Add'l.		\$15	\$15	\$15	\$15	\$15	\$15	\$15	\$15	\$15

- 4.2 Any element necessary for interconnection that is not identified above is priced as currently set forth in the Agreement.
- 5.0 BellSouth shall make available to New Edge any agreement for the HUNE entered into between BellSouth and any other CLEC. If New Edge elects to adopt such agreement, New Edge shall adopt all rates, terms and conditions relating to the HUNE in such agreement.
- 6.0 In the event of a conflict between the terms of this Amendment and the terms of the Interconnection Agreement, the terms of this Amendment shall prevail.
- 7.0 All of the other provisions of the Agreement shall remain in full force and effect.

8.0 Either or both of the Parties is authorized to submit this Amendment to the respective state regulatory authorities for approval subject to Section 252(e) of the Federal Telecommunications Act of 1996.

IN WITNESS WHEREOF, the Parties hereto have caused this Amendment to be executed by their respective duly authorized representatives on the date indicated below.

New Edge Network, Inc.

BellSouth Telecommunications, Inc.

d/b/a New Edge Networks

By: Signature On Original

Name: <u>Robert Y. McMillin</u>

Title: Senior Director - Interconnection

Date: 04/27/00

By: Signature On Original

Name: Jerry Hendrix

Title: Senior Director

Date: 04/28/00

ATTACHMENT 1

CLEC/BellSouth Line Sharing Jointly Developed

Rules for Splitter Allocation

BellSouth is unable to obtain a sufficient number of splitters for placement in all central offices requested by competitive local exchange carriers ("CLECs") by June 6, 2000. As a result of the current shortage of splitters, CLECs and BellSouth developed the following rules for splitter allocation. These rules shall apply until such time as those CLECs participating in the creation of the rules agree that the regular splitter installation rules should apply.

- 1. There shall be a single CLEC priority list of central offices that shall consist of the Georgia CLEC priority list combined with the priority list from the other states in BellSouth's nine-state region (the "Priority List"). This priority list shall be used for filling orders; it shall determine the order in which splitters will be deployed in those central offices for which splitters have been ordered. Georgia central offices (CO) will have priority over other state's COs.
- 2. During the allocation period, a CLEC may order 24 ports or 96 ports. In either event, BellSouth shall install a 96 port splitter in accordance with the Priority List. However, during the allocation period, in the event a CLEC orders 96 ports, BellSouth will only allocate 24 ports of the 96 port splitter to the first CLEC that orders a splitter for that central office, thus creating a backlog of 72 ports that have already been ordered by that CLEC ("Backlog"). In the event of a Backlog, BellSouth will charge CLEC a monthly recurring charge appropriate for the number of ports allocated to CLEC. In addition, if CLEC requested a 96 port splitter, it shall pay a non-recurring charge for a 96 port splitter, but shall pay no non-recurring charges when additional ports are added to alleviate the Backlog.
- 3. BellSouth will allocate, on a first-come/first-served basis, the remaining 72 ports of the splitter (in blocks of 24 ports) to the other CLECs that place an order for a splitter at that same central office.

Orders Submitted by Three (3) P.M. EST, April 28, 2000 with Due Date of June 6, 2000 or Sooner

4. A firm order for a splitter issued to the BellSouth Complex Resale Support Group (CRSG) on or by Three (3) P.M. EST, April 28, 2000, with due date of June 6, 2000, or sooner, will be given priority over orders received after three (3) P.M. EST, April 28, 2000. Orders for the first 200 splitters received prior to April 28, 2000, will be installed on or before June 5, 2000, and shall be installed in accordance with the priority list. The first 25 splitter orders shall be installed no later than May 22, 2000.

- 5. In the event CLECs submit to BellSouth more than 200 splitter orders on or before three (3) P.M. EST, April 28, 2000, BellSouth shall install fifty (50) splitters a week each week after June 5, 2000.
- 6. In the event there are more than four (4) orders submitted on or April 28, 2000, for a splitter at a particular central office, a second splitter will be installed at that central office in accordance with the Priority List.
- 7. Backlogs associated with orders submitted on or before April 28, 2000 will be fulfilled in their entirety before any orders received after April 28, 2000 are worked. In fulfilling a Backlog, the CLEC's additional ports may not be on the same shelf as the initial 24 ports.

Orders Received after Three (3) P.M. EST, April 28, 2000

- 8. Irrespective of the Priority List, no orders received after three (3) P.M. EST, April 28, 2000, will be worked until after all orders received on or before three (3) P.M. EST, April 28, 2000 have been completed.
- 9. Once all orders received on or before April 28, 2000 have been worked in their entirety, orders received after April 28, 2000 will have a minimum interval of forty-two (42) calendar days from date of receipt.

Orders Submitted with Due Dates After June 6, 2000

10. Any order submitted on or before April 28, 2000, with a due date of after June 6, 2000, will be completed according to the due date provided there is available inventory and all orders with a due date of June 6, 2000 or earlier have been completed.

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Georgia Rating/Ranking of Central Offices for Linesharing March 9, 2000

Covad, Rythms, Northpoint, New Edge

CLLI Combined Ranking

MRTTGAMA	1
RSWLGAMA	2
ATLNGABU	3
ATLNGAPP	4
DLTHGAHS	5
ATLNGASS	
CHMBGAMA	7
AGSTGAAU	8
LRVLGAOS	9
MRTTGAEA	10
SMYRGAMA	11
LLBNGAMA	12
WDSTGACR	13
ATHNGAMA	14
AGSTGAFL	15
AGSTGATH	16
JNBOGAMA	17
NRCRGAMA	18
ATLNGATH	19
ALPRGAMA	20
DNWDGAMA	21
CMNGGAMA	22
AGSTGAMT	23
ALBYGAMA	24
GSVLGAMA	25
SNLVGAMA	26
ATLNGAIC	27
ATLNGAEP	28
TUKRGAMA	29
ROMEGATL	30
VLDSGAMA	31
MACNGAMT	32
ASTLGAMA	33
SMYRGAPF	34
DGVLGAMA	35
ATLNGAEL	36
SNMTGALR	37
CNYRGAMA	38
MACNGAVN	39
WRRBGAMA	40
NWNNGAMA	41
ATLNGAWD	42

GRFNGAMA43PANLGAMA44BUFRGABH45ATLNGACD46MACNGAGP47SVNHGABS48ATLNGACS49PTCYGAMA50RVDLGAMA51STBRGANH52MCDNGAGS53ATLNGAWE54SVNHGADE55SVNHGADE55SVNHGAMB56ATLNGAWB56ATLNGAMB56ATLNGAMB56ATLNGAMB56ATLNGAMA59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAZS79CNTNGAXB80LGVLGACS81SSISGAES81		
HULGAMABUFRGABH45ATLNGACD46MACNGAGP47SVNHGABS48ATLNGACS49PTCYGAMA50RVDLGAMA51STBRGANH52MCDNGAGS53ATLNGAWE54SVNHGADE55SVNHGADE55SVNHGAMB56ATLNGAWB56ATLNGAGR57ATLNGAMA59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAWI64ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMT71CLMBGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGALS79CNTNGAXB80LGVLGACS81	GRFNGAMA	43
ATLNGACD46MACNGAGP47SVNHGABS48ATLNGACS49PTCYGAMA50RVDLGAMA51STBRGANH52MCDNGAGS53ATLNGAWE54SVNHGAWE55SVNHGAWB56ATLNGAGR57ATLNGAGR57ATLNGAGR57ATLNGAAD58CRVLGAMA60ATLNGABH61FYVLGASG62SVNHGAWI64ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	PANLGAMA	44
MACNGAGP47MACNGAGP47SVNHGABS48ATLNGACS49PTCYGAMA50RVDLGAMA51STBRGANH52MCDNGAGS53ATLNGAWE54SVNHGAWE55SVNHGAWB56ATLNGAGR57ATLNGAGR57ATLNGAGR57ATLNGAAD58CRVLGAMA59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMT71CLMBGAMS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	BUFRGABH	45
SVNHGABS48ATLNGACS49PTCYGAMA50RVDLGAMA511STBRGANH52MCDNGAGS53ATLNGAWE54SVNHGADE55SVNHGAWB56ATLNGAGR57ATLNGAGR57ATLNGAGR57ATLNGAGR59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAWI64ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMT71CLMBGAMS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGAMA78ATLNGAUS79CNTNGAXB80LGVLGACS81	ATLNGACD	46
ATLNGACS49PTCYGAMA50RVDLGAMA51STBRGANH52MCDNGAGS53ATLNGAWE54SVNHGADE55SVNHGADE55SVNHGAMB56ATLNGAGR57ATLNGAGR57ATLNGAGR57ATLNGAGR59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAWI64ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMT71CLMBGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAZS79CNTNGAXB80LGVLGACS81	MACNGAGP	47
PTCYGAMA50RVDLGAMA511STBRGANH52MCDNGAGS53ATLNGAWE54SVNHGADE55SVNHGAWB56ATLNGAGR57ATLNGAAD58CRVLGAMA59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA69MRRWGAMA70CLMBGAMT71CLMBGAMT73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGAMA78ATLNGALS79CNTNGAXB80LGVLGACS81	SVNHGABS	48
RVDLGAMA51STBRGANH52MCDNGAGS53ATLNGAWE54SVNHGADE55SVNHGAWB56ATLNGAGR57ATLNGAGR57ATLNGAAD58CRVLGAMA60ATLNGABH61FYVLGASG62SVNHGAWI64ATLNGAFP65ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA69MRRWGAMA70CLMBGAMT71CLMBGAMT73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAZS79CNTNGAXB80LGVLGACS81		49
STBRGANH52MCDNGAGS53ATLNGAWE54SVNHGADE55SVNHGAWB56ATLNGAGR57ATLNGAGR57ATLNGAAD58CRVLGAMA59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAWI64ATLNGAFP65ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMA73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAZS79CNTNGAXB80LGVLGACS81	PTCYGAMA	50
MCDNGAGS53ATLNGAWE54SVNHGADE55SVNHGAWB56ATLNGAGR57ATLNGAAD58CRVLGAMA59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAWI64ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	RVDLGAMA	
ATLNGAWE54SVNHGADE55SVNHGAWB56ATLNGAGR57ATLNGAAD58CRVLGAMA59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAGC63SVNHGAGC63SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMT71CLMBGAMS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81		
SVNHGADE55SVNHGAWB56ATLNGAGR57ATLNGAAD58CRVLGAMA59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAGC63SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMT73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGAMA78ATLNGALS79CNTNGAXB80LGVLGACS81		the second s
SVNHGAWB56ATLNGAGR57ATLNGAAD58CRVLGAMA59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAGC63SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMT73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGAMA78ATLNGALS79CNTNGAXB80LGVLGACS81		
ATLNGAGR57ATLNGAAD58CRVLGAMA59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAGC63SVNHGAGC63SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMT73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81		and the second
ATLNGAAD58CRVLGAMA59ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAGC63SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	SVNHGAWB	56
CRVLGAMA 59 ACWOGAMA 60 ATLNGABH 61 FYVLGASG 62 SVNHGAGC 63 SVNHGAWI 64 ATLNGAFP 65 ATLNGAHR 66 PWSPGAAS 67 CRTNGAMA 68 ATLNGALA 69 MRRWGAMA 70 CLMBGAMT 71 CLMBGAMT 71 CLMBGAMW 722 LTHNGAJS 73 CVTNGAMT 74 DLLSGAES 75 FRBNGAEB 76 CLMBGABV 77 BRWKGAMA 78 ATLNGAQS 79 CNTNGAXB 80 LGVLGACS 81		
ACWOGAMA60ATLNGABH61FYVLGASG62SVNHGAGC63SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMT71CLMBGAMT73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81		58
ATLNGABH61FYVLGASG62SVNHGAGC63SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMT71CLMBGAMT73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81		59
FYVLGASG62SVNHGAGC63SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	ACWOGAMA	60
SVNHGAGC63SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	ATLNGABH	61
SVNHGAWI64ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	FYVLGASG	62
ATLNGAFP65ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	SVNHGAGC	63
ATLNGAHR66PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	SVNHGAWI	64
PWSPGAAS67CRTNGAMA68ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	ATLNGAFP	65
CRTNGAMA 68 ATLNGALA 69 MRRWGAMA 70 CLMBGAMT 71 CLMBGAMW 72 LTHNGAJS 73 CVTNGAMT 74 DLLSGAES 75 FRBNGAEB 76 CLMBGABV 77 BRWKGAMA 78 ATLNGAQS 79 CNTNGAXB 80 LGVLGACS 81	ATLNGAHR	66
ATLNGALA69MRRWGAMA70CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	PWSPGAAS	67
MRRWGAMA70CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	CRTNGAMA	68
CLMBGAMT71CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	ATLNGALA	69
CLMBGAMW72LTHNGAJS73CVTNGAMT74DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	MRRWGAMA	70
LTHNGAJS 73 CVTNGAMT 74 DLLSGAES 75 FRBNGAEB 76 CLMBGABV 77 BRWKGAMA 78 ATLNGAQS 79 CNTNGAXB 80 LGVLGACS 81	CLMBGAMT	71
CVTNGAMT 74 DLLSGAES 75 FRBNGAEB 76 CLMBGABV 77 BRWKGAMA 78 ATLNGAQS 79 CNTNGAXB 80 LGVLGACS 81	CLMBGAMW	72
DLLSGAES75FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	LTHNGAJS	73
FRBNGAEB76CLMBGABV77BRWKGAMA78ATLNGAQS79CNTNGAXB80LGVLGACS81	CVTNGAMT	74
CLMBGABV 77 BRWKGAMA 78 ATLNGAQS 79 CNTNGAXB 80 LGVLGACS 81	DLLSGAES	75
BRWKGAMA 78 ATLNGAQS 79 CNTNGAXB 80 LGVLGACS 81	FRBNGAEB	76
ATLNGAQS 79 CNTNGAXB 80 LGVLGACS 81	CLMBGABV	77
CNTNGAXB 80 LGVLGACS 81	BRWKGAMA	78
LGVLGACS 81	ATLNGAQS	79
	CNTNGAXB	80
SSISGAES 81	LGVLGACS	81
	SSISGAES	81

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BellSouth Central Offices (All states excluding GA)

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Ref. #	CLLI	State	Combined CLEC Rank
312	PRANFLMA	FL	1
1330	MMPHTNBA	TN	2
1362	NSVLTNMT	TN	3
202	GSVLFLNW	FL	4
1	ALBSALMA	AL	5
13	BRHMALCH	AL	6
268	MLBRFLMA	FL	7
	MMPHTNMA	TN	8
	ORLDFLAP	FL	9
1335	MMPHTNGT	TN	10
	HLWDFLPE	FL	11
	ORLDFLPH	FL	12
	MMPHTNEL	TN	13
324	STRTFLMA	FL	14
14	BRHMALCP	AL	15
15	BRHMALEL	AL	16
1141	CLMASCSN	SC	17
1240	CHTGTNNS	TN	18
1339	MMPHTNOA	TN	19
1073	RLGHNCS	NC	20
299	PMBHFLCS	FL	21
698	NWORLASW	LA	22
1354	NSVLTNBW	TN	23 .
1309	KNVLTNMA	TN	24
16	BRHMALEN	AL	25
17	BRHMALEW	AL	26
1345	MRBOTNMA	TN	27
1364	NSVLTNUN	TN	28
623	KNNRLABR	LA	29
984	CARYNCCE	NC	30
333	WPBHFLGA	FL	31
1356	NSVLTNCH	TN	32
1363	NSVLTNST	TN	33
429	LSVLKYAP	KY	34
20	BRHMALHW	AL	35
21	BRHMALMT	AL	36
	LFYTLAMA	LA	37
	KNTNTNMA	TN	38
	NWORLAMT	LA	39
	BCRTFLMA	FL	40
the second s	BCRTFLSA	FL	41
and the second se	MMPHTNSL	TN	42
and the second sec	MMPHTNMT	TN	43
	PNSCFLFP	FL	44
and the second s	BRHMALOM	AL	45
	BRHMALOX	AL	46
176	DYBHFLMA	FL	47

1352 NSVLTNAP TN 48 1332 MMPHTNCT TN 49 334 WPBHFLGR FL 50 249 MIAMFLCA FL 51 732 SLIDLAMA LA 52 1307 KNVLTNBE TN 53 64 MTGMALDA AL 54 24 BRIMALRC AL 55 26 BRIMALVA AL 56 196 FTPRFLMA FL 57 1272 FKLNTNMA TN 58 695 NWORLARV LA 59 1019 GNBONCAS NC 60 1068 REGHNCGL NC 61 692 INWORLAMA LA 62 1310 KNVLTNWH TN 63 179 DYBHFLPO FL 64 233 JPTRFLMA FL 67 1357 NSVLTNDO TN 68 697		lans a	
334 WPBHFLGR FL 50 249 MIAMFLCA FL 51 732 SLIDLAMA LA 52 1307 KNVLTNBE TN 53 64 MTGMALDA AL 54 24 BRHMALVA AL 55 26 BFHMALVA AL 56 196 FTPRFLMA FL 57 1272 FKLNTNMA TN 58 695 NWORLARV LA 59 1019 GNBONCAS NC 60 1068 RLGHNCGL NC 61 692 NWORLARK LA 62 1310 KNVLTNWH TN 63 179 DYBHFLPO FL 64 34 BSMRALMA AL 65 148 BCRTFLBT FL 67 1357 NSVLTNDO TN 68 697 NWORLASK LA 69 189 <td></td> <td>the second s</td> <td>and the second se</td>		the second s	and the second se
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174 DRBHFLMA FL 87 1323 MAVLTNMA TN 88 1358 NSVLTNGH TN 89 230 JCVLFLSJ FL 90 301 PMBHFLMA FL 91 265 MIAMFLWD FL 92 287 ORLDFLMA FL 93 1366 NSVLTNWM TN 94 164 COCOFLMA FL 95	and the second secon		
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265 MIAMFLWD FL 92 287 ORLDFLMA FL 93 1366 NSVLTNWM TN 94 164 COCOFLMA FL 95			90
287 ORLDFLMA FL 93 1366 NSVLTNWM TN 94 164 COCOFLMA FL 95			
1366 NSVLTNWM TN 94 164 COCOFLMA FL 95			
164 COCOFLMA FL 95			
			94
187 FTLDELCB FL 96		FL	95
	187 FTLDFLCR	FL	96
188 FTLDFLCY FL 97	188 FTLDFLCY		97
330 VRBHFLMA FL 98	330 VRBHFLMA	FL	98
1280 GDVLTNMA TN 99	1280 GDVLTNMA	TN	99

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0001114001400	11.0	100
696 NWORLASC		100
264 MIAMFLSO		101
989 CHRLNCCR	NC	102
683 NWORLAAR	LA	103
1311 KNVLTNYH	TN	104
557 BTRGLAMA		105
190 FTLDFLMR	FL	106
191 FTLDFLOA	FL	107
1250 CLVLTNMA	TN	108
987 CHRLNCCA	NC	109
430 LSVLKYBE	KY	110
338 WPBHFLRP	FL	111
271 MNDRFLLO	FL	112
229 JCVLFLRV	FL	113
1020 GNBONCEU	NC	114
306 PNSCFLBL	FL	115
192 FTLDFLPL	FL	116
194 FTLDFLSU	FL	117
1236 CHTGTNBR	TN	118
986 CHRLNCBO	NC	119
687 NWORLACM	LA	120
1004 CPHLNCRO	NC	121
209 HLWDFLWH	FL	122
1341 MMPHTNST	TŇ	123
996 CHRLNCSH	NC	124
848 JCSNMSCP	MS	125
195 FTLDFLWN	FL	126
206 HLWDFLHA	FL	127
969 AHVLNCOH	NC	128
995 CHRLNCRE	NC	129
227 JCVLFLNO	FL	130
442 LSVLKYWE	KY	131
1069 RLGHNCHO	NC	132
436 LSVLKYOA	KY	133
992 CHRLNCLP	NC	134
356 BWLGKYMA	KY	135
207 HLWDFLMA	FL	136
218 JCBHFLMA	FL	137
305 PNCYFLMA	FL	138
1022 GNBONCLA	NC	139
220 JCVLFLAR	FL	140
335 WPBHFLHH	FL	141
319 SNFRFLMA	FL	142
439 LSVLKYSM	KY	143
222 JCVLFLCL	FL	144
90 TSCLALMT	AL	145
221 JCVLFLBW	FL	146
223 JCVLFLFC	FL	147
1247 CLEVTNMA	TN	148
201 GSVLFLMA	FL	149
691 NWORLAMC	LA	150
300 PMBHFLFE	FL	151
JUUITWIDHFLFE	լու	151

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293 OVIDFLCA	FL	152
594 FKTNLAMA	LA	153
231 JCVLFLSM	FL	154
66 MTGMALMT	AL	155
243 MIAMFLAE	FL	156
245 MIAMFLAP	FL	157
99 DCTRALMT	AL	158
217 JCBHFLAB	FL	159
286 ORLDFLCL	FL	160
1102 WNSLNCVI	NC	161
428 LSVLKYAN	KY	162
981 BURLNCDA	NC	163
59 MOBLALSH	AL	164
314 PTSLFLMA	FL	165
246 MIAMFLBA	FL	166
248 MIAMFLBR	FL	167
123 HNVIALMT		
		168
19 BRHMALFS	_	169
690 NWORLAMA		170
1287 HDVLTNMA		171
290 ORLDFLSA	FL	172
1028 GSTANCSO	NC	173
52 MOBLALAZ	AL	174
1211 SUVLSCMA	SC	175
251 MIAMFLFL	FL	176
252 MIAMFLGR	FL	177
1131 CHTNSCWA	SC	178
54 MOBLALOS	AL	179
75 PNSNALMA	AL	180
1058 MTOLNCCE	NC	181
1070 RLGHNCJO	NC	182
1099 WNSLNCFI	NC	183
124 HNVIALPW	AL	184
472 OWBOKYMA	KY	185
254 MIAMFLIC	FL	186
1125 CHTNSCDP	SC	187
255 MIAMFLKE	FL	188
1140 CLMASCSH	SC	189
441 LSVLKYVS	KY	190
311 PNVDFLMA	FL	191
277 NDADFLBR	FL	192
1312 LBNNTNMA	TN	193
1166 GNVLSCDT	SC	194
281 NSBHFLMA	FL	195
256 MIAMFLME	FL	196
257 MIAMFLNM	FL	197
558 BTRGLAOH	LA	198
1126 CHTNSCDT	SC	199
33 BSMRALHT	AL	200
337 WPBHFLAB	FL	200
291 ORPKFLMA	IFL	201
997 CHRLNCTH	NC	
331 UNALINUIA	INC	203

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1169 GNVLSCWR	SC	204
327 TTVLFLMA	FL	205
260 MIAMFLPB	FL	206
261 MIAMFLPL	FL	207
849 JCSNMSMB	MS	208
1188 MNPLSCES	SC	209
577 CVTNLAMA	LA	210
279 NDADFLOL	FL	211
998 CHRLNCUN	NC	212
1071 RLGHNCMO	NC	213
1130 CHTNSCNO	SC	214
310 PNSCFLWA	FL	215
276 NDADFLAC	FL	216
266 MIAMFLWM	FL	217
177 DYBHFLOB	FL	218
1138 CLMASCSA	SC	219
686 NWORLACA	LA	220
1067 RLGHNCGA	NC	221
336 WPBHFLLE	FL	222
624 KNNRLAHN		223
1207 SPBGSCMA	SC	223
1080 SLBRNCMA	NC	
		225
278 NDADFLGG	FL	226
302 PMBHFLTA	FL	227
1143 CLMASCSW	SC	228
440 LSVLKYTS	KY	229
1257 CRTHTNMA	TN	230
28 BRHMALWL	AL	231
435 LSVLKYJT	KY	232
639 LFYTLAVM	ĹA	233
332 WPBHFLAN	FL	234
1369 OKRGTNMT	TN	235
126 HNVIALUN	AL	236
438 LSVLKYSL	KY	237
483 PMBRKYMA	KY	238
292 ORPKFLRW	FL	239
559 BTRGLASB	LA	240
729 SHPTLAMA	LA	241
433 LSVLKYFC	KY	242
432 LSVLKYCW	KY	243
1300 JCSNTNMA	TN	244
561 BTRGLAWN	LA	245
1101 WNSLNCLE	INC	246
1277 GALLTNMA	TN	247
556 BTRGLAIS	LA	248
726 SHPTLABS	LA	249
689 NWORLALK	LA	250
1254 CNVLTNMA	ITN	251
642 LKCHLADT	LA	251
727 SHPTLACL	LA	أخذان بمتراقر بالنبية والتجاري بالبري ويربي والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع
1388 SMYRTNMA		253
	TN	254
1262 DKSNTNMT	TN	255

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	1	070
728 SHPTLAHD		256
1031 HNVLNCCH	NC	257
971 APEXNCCE	NC	258
990 CHRLNCDE	NC	259
1346 MRTWTNMA	TN	260
852 JCSNMSRW	MS	261
1394 SPFDTNMA	TN	262
665 MNVLLAMA	LA	263
1023 GNBONCMC	NC	264
1106 AIKNSCMA	SC	265
991 CHRLNCER	NC	266
1072 RLGHNCSB	NC	267
645 LKCHLAUN	LA	268
1045 LNTNNCMA	NC	269
263 MIAMFLSH	FL	270
1017 GLBONCMA	NC	271
1308 KNVLTNFC	TN	272
1135 CLMASCCH	SC	273
1100 WNSLNCGL	NC	274
824 GLPTMSTS	MS	275
258 MIAMFLNS	FL	276
67 MTGMALNO	AL	277
259 MIAMFLOL	FL	278
1398 SVVLTNMT	TN	279
993 CHRLNCMI	NC	280
1085 SSVLNCMA	NC	281
982 BURLNCEL	NC	282
731 SHPTLASG	LA	283
1024 GNBONCPG	NC	284
74 PHCYALMA	AL	285
244 MIAMFLAL	FL	286
296 PCBHFLNT	IFL	287
1037 KNDLNCCE	NC	288
165 COCOFLME	FL	289
434 LSVLKYHA	KY	290
838 HTBGMSMA	MS	291
1078 SELMNCMA	NC	292
60 MOBLALSK	AL	293
1009 DVSNNCPO	NC	294
582 DNSPLAMA	LA	295
1098 WNSLNCCL	NC	296
10 AUBNALMA	AL	297
1083 SRFDNCCE	NC	298
399 FRFTKYMA	KY	299
247 MIAMFLBC	FL	300
1248 CLMATNMA	TN	301
1018 GNBONCAP	INC	302
1136 CLMASCDF	SC	303
1105 ZBLNNCCE	NC NC	304
321 STAGFLMA	FL	305
1096 WNDLNCPI	NC	306
846 JCSNMSBL	MS	307
	1	007

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	T	000
11 BLFNALMA	AL	308
427 LSVLKY26	KY	309
193 FTLDFLSG	FL	310
1242 CHTGTNRO	TN	311
212 HMSTFLNA	FL	312
159 CCBHFLMA	FL	313
985 CARYNCWS	NC	314
560 BTRGLASW	LA	315
295 PAHKFLMA	FL	316
1133 CLMASCAR	SC	317
250 MIAMFLDB	FL	318
122 HNVIALLW	AL	319
1066 RLGHNCDU	NC	. 320
1142 CLMASCSU	SC	321
210 HMSTFLEA	FL	322
154 BLGLFLMA	FL	323
1258 CRVLTNMA	TN	324
851 JCSNMSPC	MS	325
1241 CHTGTNRB	TN	326
1053 MGTNNCGR	NC	327
89 TSCLALDH	AL	328
ADD HNVIALRA	AL	329
730 SHPTLAQB	LA	330
978 BOONNCKI	NC	331
839 HTBGMSWE	MS	332
8 ATHNALMA	AL	333
610 HMNDLAMA	LA	334
874 MDSNMSES	MS	335
71 OPLKALMT	AL	336
769 BILXMSED	MS	337
269IMLTNFLRA	FL	338
1301 JCSNTNNS	TN	339
55 MOBLALPR	AL	340
552 BTRGLABK	LA	341
and the second se	MS	342
847 JCSNMSCB 437 LSVLKYSH	KY	343
	SC	343
1129 CHTNSCLB	- Internet and the second second	in the second
492 RCMDKYMA		345
411 HNSNKYMA	KY	346
1040 LENRNCHA		347
1190 NAGSSCMA		348
77 PRVLALMA	AL	349
213 HTISFLMA	FL	350
972 ARDNNCCE	NC	351
200 GLBRFLMC	FL	352
823 GLPTMSLY		353
315 PTSLFLSO	FL	354
51 MOBLALAP	AL	355
1127 CHTNSCJM	SC	356
893 OCSPMSGO	MS	357
91 TSCLALNO	AL	358
317 SBSTFLMA	IFL	359

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527 WNCHKYMA	KY	360
58 MOBLALSF	AL	361
1239 CHTGTNMV	TN	362
1016 GLBONCAD	NC	363
770 BILXMSMA	MS	364
1400 TLLHTNMA	TN	365
109 FAHPALMA	AL	366
1368 NWPTTNMT	TN	367
56 MOBLALSA	AL	368
666 MONRLADS	LA	369
	LA	370
57 MOBLALSE	AL	371
	KY	372
970 AHVLNCOT	NC	373
1385 SHVLTNMA	TN	374
780 BRNDMSES	MS	375
	TN	376
1347 MSCTTNMT	TN	377
	TN	378
	FL	379
	TN	380
1317 LRBGTNMA	TN	381
555 BTRGLAHR	LA	382
294 PACEFLPV	FL	383
850 JCSNMSNR	MS	384
1243 CHTGTNSE	TN	385
204 HBSDFLMA	FL	386
1319 LXTNTNMA	TN	387
1343 MNCHTNMA	TN	388
1249 CLTNTNMA	TN	389
	FL	390
	NC	391
308 PNSCFLHC	FL	392
1285 GTBGTNMT	TN	393
	NC	394
1238 CHTGTNHT		
	TN	<u>395</u> 396

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EXHIBIT TGW – 13

Amendment to the Interconnection Agreements Between BlueStar Networks, Inc. and BellSouth

AMENDMENT TO THE INTERCONNECTION AGREEMENTS BETWEEN BLUESTAR NETWORKS, INC. AND BELLSOUTH TELECOMMUNICATIONS, INC.

THIS AMENDMENT ("Amendment") is made by and between BellSouth Telecommunications, Inc. ("BellSouth") and BlueStar Networks, Inc. ("BlueStar"), as of the 7th day of June 2000. (BellSouth and BlueStar are collectively referred to as the "Parties".)

WHEREAS, the Parties executed an Interconnection Agreement on December 7, 1999 (Alabama, Louisiana, Mississippi, and South Carolina), (collectively, the "Agreement"); and

WHEREAS, the Parties desire to amend the Agreement to set forth the terms and conditions relating to BellSouth providing to BlueStar unbundled access to the high frequency spectrum of BellSouth's local loops as a network element.

NOW, THEREFORE, for and in consideration of the promises contained herein, the parties to this Amendment, intending to be legally bound, hereby agree as follows:

1.0 Attachment 2 of the Agreement shall be amended by adding the following Section 12:

12.0 HIGH FREQUENCY SPECTRUM NETWORK ELEMENT 12.1 GENERAL

BellSouth shall provide BlueStar access to the high frequency portion of the local loop as an unbundled network element ("High Frequency Spectrum") High Frequency Spectrum at the rates set forth in Section 4 herein. BellSouth shall provide BlueStar with the High Frequency Spectrum irrespective of whether BellSouth chooses to offer xDSL services on the loop.

12.1.1 The High Frequency Spectrum is defined as the frequency range above the voiceband on a copper loop facility carrying analog circuit-switched voiceband transmissions. Access to the High Frequency Spectrum is intended to allow BlueStar the ability to provide Digital Subscriber Line ("xDSL") data services. The High Frequency Spectrum shall be available for any version of xDSL presumed acceptable for deployment pursuant to 47 C.F.R. Section 51.230, including, but not limited to, ADSL, RADSL, and any other xDSL technology that is presumed to be acceptable for deployment pursuant to FCC rules. BellSouth will continue to have access to the low frequency portion of the loop spectrum (from 300 Hertz to at least 3000 Hertz, and potentially up to 3400 Hertz, depending on equipment and facilities) for the purposes of providing voice service. BlueStar shall only use xDSL technology that is within the PSD mask parameters set forth in T1.413 or other applicable industry standards. BlueStar shall provision xDSL service on the High Frequency Spectrum in accordance with the applicable Technical Specifications and Standards.

12.1.2 The following loop requirements are necessary for BlueStar to be able to access the High Frequency Spectrum: an unconditioned, 2wire copper loop. An unconditioned loop is a copper loop with no load coils, low-pass filters, range extenders, DAMLs, or similar devices and minimal bridged taps consistent with ANSIT1.413 and T1.601. The process of removing such devices is called "conditioning." BellSouth shall charge and BlueStar shall pay as interim rates, the same rates that BellSouth charges for conditioning stand-alone loops (e.g., unbundled copper loops, ADSL loops, and HDSL loops) until permanent pricing for loop conditioning is established either by mutual agreement or by a state public utility commission. The interim costs for conditioning are subject to true up as provided in paragraph 4.0. BellSouth will condition loops to enable BlueStar to provide xDSL-based services on the same loops the incumbent is providing analog voice service, regardless of loop length. BellSouth is not required to condition a loop for shared-line xDSL if conditioning of that loop significantly degrades BellSouth's voice service. BellSouth shall charge, and BlueStar shall pay, for such conditioning the same rates BellSouth charges for conditioning stand-alone loops (e.g., unbundled copper loops, ADSL loops, and HDSL loops.) If BlueStar requests that BellSouth condition a loop longer than 18,000 ft. and such conditioning significantly degrades the voice services on the loop. BlueStar shall pay for the loop to be restored to its original state.

- 12.1.3 BlueStar's meet point is the point of termination for BlueStar on the toll main distributing frame in the central office ("Meet Point"). BellSouth will use jumpers to connect BlueStar's connecting block to the splitter. The splitter will route the High Frequency Spectrum on the circuit to BlueStar's xDSL equipment in the BlueStar's collocation space.
- 12.1.4 BlueStar shall have access to the Splitter for test purposes, irrespective of where the Splitter is placed in the BellSouth premises.

12.2 PROVISIONING OF HIGH FREQUENCY SPECTRUM AND SPLITTER SPACE

12.2.1 BellSouth will provide BlueStar with access to the High Frequency Spectrum as follows:

- 12.2.2 BellSouth is unable to obtain a sufficient number of splitters for placement in all central offices requested by competitive local exchange carriers ("CLECs") by June 6, 2000. Therefore, BeilSouth, BlueStar and other CLECs have developed a process for allocating the initial orders of splitters. BellSouth will install all splitters ordered on or before April 28, 2000, in accordance with the schedule set forth in Attachment 1 of this Agreement. Once all splitters ordered by all CLECs on or before April 28. 2000, have been installed. BellSouth will install splitters within forty-two (42) calendar days of BlueStar's submission of such order to the BellSouth Complex Resale Support Group (assuming no splitter with excess capacity is currently located at the requested central office); provided, however, that in the event BellSouth did not have reasonable notice that a particular central office was to have a splitter installed therein, the forty-two (42) day interval shall not apply. Collocation itself or an application for collocation will serve as reasonable notice. BellSouth and BlucStar will reevaluate this forty-two (42) day interval on or before August 1, 2000. In the event that BellSouth does not have a splitter available for a particular central office and BlueStar owns a splitter, BellSouth may elect to purchase such splitter from BlueStar upon rates, terms, and conditions to be agreed to by the parties.
- 12.2.3 After June 6, 2000, once a splitter is installed on behalf of BlueStar in a central office, BlueStar shall be entitled to order the High Frequency Spectrum on lines served out of that central office.
- 12.2.4 BellSouth will select, purchase, install, and maintain a central office POTS splitter and provide BlueStar access to data ports on the splitter. In the event that BellSouth elects to use a brand of splitter other than Siecor, the Parties shall renegotiate the recurring and non-recurring rates associated with the splitter. In the event the Parties cannot agree upon such rates, the then current rates (final or interim) for the Siecor splitter shall be the interim rates for the new splitter. BellSouth will provide BlueStar with a carrier notification letter at least 30 days before such change and shall work collaboratively with BlueStar to select a mutually agreeable brand of splitter for use by BellSouth. BlueStar shall thereafter purchase ports on the splitter as set forth more fully below. Anytime after July 15, 2000, BellSouth agrees to discuss with BlueStar the rates, terms and conditions to allow BlueStar to purchase its own splitters for installation in BellSouth's central offices.
- 12.2.5 BellSouth will install the splitter in (i) a common area close to the BlueStar collocation area, if possible; or (ii) in a BellSouth relay rack as close to the BlueStar DS0 termination point as possible.

For purposes of this section, a common area is defined as an area in the central office in which both Parties have access to a common test access point. BellSouth will cross-connect the splitter data ports to a specified BlueStar DSO at such time that a BlueStar end user's service is established.

- 12.2.6 The High Frequency Spectrum shall only be available on loops on which BellSouth is also providing, and continues to provide, analog voice service. In the event the end-user terminates its BellSouth provided voice service for any reason, and BlueStar desires to continue providing xDSL service on such loop, BlueStar shall be permitted to continue using the line by purchasing the full stand-alone loop unbundled network element. In the event BellSouth disconnects the end-user's voice service pursuant to its tariffs or applicable law, and BlueStar desires to continue providing xDSL service on such loop, BlueStar shall be permitted to continue using the full stariffs or applicable law, and BlueStar desires to continue providing xDSL service on such loop, BlueStar shall be permitted to continue using the line by purchasing the full stand-alone loop unbundled network element.
- 12.2.7 BlueStar and BellSouth shall continue to work together collaboratively to develop systems and processes for provisioning the High Frequency Spectrum in various real life scenarios. BellSouth and BlueStar agree that BlueStar is entitled to purchase the High Frequency Spectrum on a loop that is provisioned over fiber fed digital loop carrier. BellSouth will provide BlueStar with access to feeder subloops at UNE prices. BellSouth and BlueStar will work together to establish methods and procedures for providing BlueStar access to the High Frequency Spectrum over fiber fed digital loop carriers by August 1, 2000.
- 12.2.8 Only one competitive local exchange carrier shall be permitted access to the High Frequency Spectrum of any particular loop.
- 12.2.9 To order High Frequency Spectrum on a particular loop, BlueStar must have a DSLAM collocated in the central office that serves the end-user of such loop. BellSouth will work collaboratively with BlueStar to create a concurrent process that allows BlueStar to order splitters in central offices where BlueStar is in the process of obtaining collocation space and enables BellSouth to install such splitters before the end of BlueStar's collocation provisioning interval. While that process is being developed, BlueStar may order splitters in a central office once it has installed its Digital Subscriber Line Access Multiplexer ("DSLAM") in that central office. BellSouth will install these splitters within the interval provided in paragraph 11.2.2.

- 12.2.10 BellSouth will devise a splitter order form that allows BlueStar to order splitter ports in increments of 24 or 96 ports.
- 12.2.11 BellSouth will provide BlueStar the Local Service Request ("LSR") format to be used when ordering the High Frequency Spectrum by May 15, 2000.
- 12.2.12 BellSouth will initially provide access to the High
 Frequency Spectrum within the following intervals: Beginning on
 June 6, 2000, BellSouth will return a Firm Order Confirmation
 ("FOC") in no more than two (2) business days. BellSouth will
 provide BlueStar with access to the High Frequency Spectrum as
 follows:
 - 12.2.12.1 For 1-5 lines at the same address within three (3) business days from the receipt of BlueStar's LSR; 6-10 lines at same address within 5 business days; and more than 10 lines at the same address is to be negotiated. BellSouth and BlueStar will re-evaluate these intervals on or before August 1, 2000.
- 12.2.13 BlueStar will initially use BellSouth's existing prequalification functionality and order processes to pre-qualify line and order the High Frequency Spectrum. BlueStar and BellSouth will continue to work together to modify these functionalities and processes to better support provisioning the High Frequency Spectrum. BellSouth will use its best efforts to make available to BlueStar, by the fourth quarter of 2000, an electronic pre-ordering, ordering, provisioning, repair and maintenance and billing functionalities for the High Frequency Spectrum.

12.3 MAINTENANCE AND REPAIR

- 12.3.1 BlueStar shall have access, for test, repair, and maintenance purposes, to any loop as to which it has access to the High Frequency Spectrum. BlueStar may access the loop at the point where the combined voice and data signal exits the central office splitter.
- 12.3.2 BellSouth will be responsible for repairing voice services and the physical line between the network interface device at the customer premise and the Meet Point of demarcation in the central office. BlueStar will be responsible for repairing data services. Each Party will be responsible for maintaining its own equipment.

- 12.3.3 If the problem encountered appears to impact primarily the xDSL service, the end user should call BlueStar. If the problem impacts primarily the voice service, the end user should call BellSouth. If both services are impaired, the recipient of the call should coordinate with the other service provider(s).
- 12.3.4 BellSouth and BlueStar will work together to diagnose and resolve any troubles reported by the end-user and to develop a process for repair of lines as to which BlueStar has access to the High Frequency Spectrum. The Parties will continue to work together to address customer initiated repair requests and other customer impacting maintenance issues to better support unbundling of High Frequency Spectrum.
 - 12.3.4.1 Each Party will be responsible for testing and isolating troubles on its respective portion of the loop. Once a Party ("Reporting Party") has isolated a trouble to the other Party's ("Repairing Party") portion of the loop, the Reporting Party will notify the Repairing Party that the trouble is on the Repairing Party's portion of the loop. The Repairing Party will take the actions necessary to repair the loop if it determines a trouble exists in its portion of the loop.
 - 12.3.4.2 If a trouble is reported on either Party's portion of the loop and no trouble actually exists, the Repairing Party may charge the Reporting Party for any dispatching and testing (both inside and outside the central office) required by the Repairing Party in order to confirm the loop's working status.
- 12.3.5 In the event BlueStar's deployment of xDSL on the High Frequency Spectrum significantly degrades the performance of other advanced services or of BellSouth's voice service on the same loop, BellSouth shall notify BlueStar and allow twenty-four (24) hours to cure the trouble. If BlueStar fails to resolve the trouble, BellSouth may discontinue BlueStar's access to the High Frequency Spectrum on such loop.

12.4 PRICING

12.4.1 BellSouth and BlueStar agree to the following negotiated, interim rates for the High Frequency Spectrum. All interim prices will be subject to true up based on either mutually agreed to permanent pricing or permanent pricing established in a line sharing cost proceeding conducted by state public utility commissions. In the event interim prices are established by state public utility commissions before permanent prices are established, either through arbitration or some other mechanism, the interim prices established in this Agreement will be changed to reflect the interim prices mandated by the state public utility commissions; however, no true up will be performed until mutually agreed to permanent prices are established or permanent prices are established by state public utility commissions. Once a docket in a particular state in BellSouth's region has been opened to determine permanent prices for the High Frequency Spectrum, BellSouth will provide cost studies for that state for the High Frequency Spectrum upon BlueStar's written request, within 30 days or such other date as may be ordered by a state commission. All cost related information shall be provided pursuant to a proprietary, nondisclosure agreement.

12.4.2 BellSouth and BlueStar enter into this Agreement without waiving current or future relevant legal rights and without prejudicing any position BellSouth or BlueStar may take on relevant issues before state or federal regulatory or legislative bodies or courts of competent jurisdiction. This clause specifically contemplates but is not limited to: (a) the positions BellSouth or BlueStar may take in any cost docket related to the terms and conditions associated with access to the High Frequency Spectrum; and (b) the positions that BellSouth or BlueStar might take before the FCC or any state public utility commission related to the terms and conditions under which BellSouth must provide BlueStar with access to the High Frequency Spectrum. The interim rates set forth herein were adopted as a result of a compromise between the parties and do not reflect either party's position as to final rates for access to the High Frequency Spectrum.

DESCRIPTION	USOC	AL.	LA	MS	SC
SYSTEM. SPLITTER - 96 LINE CAPACITY	ULSDA				
Monthly recurring		\$100	\$100	\$100	\$100
Non Recurring - 1st		\$150	\$150	\$300	\$300
Non Recumng - Add'l.		80	\$0	\$0	\$0
Non Recurring - Disconnect Only		\$150	\$150	NA	NA
SYSTEM, SPLITTER - 24 LINE CAPACITY	ULSOB				
Monthly recurring		\$25	\$25	\$25	\$25
Non Recurring		\$150	\$150	\$300	\$300
Non Recurring - Add'l		\$0	\$0 ·	\$0	\$0
Non Recurring - Disconnect Only		\$150	\$150	NA	NA
LOOP CAPACITY, LINE ACTIVATION - PER OCCURRENCE	ULEDC				
Monthly recurring		\$8.00	\$8.00	\$6.00	\$8.00
Non Recurring - 1st		\$40	\$40	\$40	\$40
Non Recurring - Add'l.		\$22	\$22	\$22	\$22
SUBSEQUENT ACTIVITY - PER OCCURRENCE -	ULSDS				
Non Recurring - 1st		\$30	\$30	\$30	\$30
Non Recurring - Add'l.		\$15	\$15	\$15	\$15

12.4.3 Any element necessary for interconnection that is not identified above is priced as currently set forth in the Agreement.

2.0 BellSouth shall make available to BlueStar any agreement for the High Frequency Spectrum entered into between BellSouth and any other CLEC. If BlueStar elects to adopt such agreement, BlueStar shall adopt all rates, terms and conditions relating to the High Frequency Spectrum in such agreement.

3.0 In the event of a conflict between the terms of this Amendment and the terms of the Interconnection Agreement, the terms of this Amendment shall prevail.

4.0 All of the other provisions of the Agreement shall remain in full force and effect.

5.0 Either or both of the Parties is authorized to submit this Amendment to the respective state regulatory authorities for approval subject to Section 252(e) of the Federal Telecommunications Act of 1996.

IN WITNESS WHEREOF, the Parties hereto have caused this Amendment to be executed by their respective duly authorized representatives on the date indicated below.

BlueStar Networks, Inc.

By: Norton Cutter / 14 Name: Northe Cuther

General Ca Title: June 7, 2000 Date: _

BeilSouth Telecommunications, Inen By

Name: Jepty Hendrix

Title: Senior Director Date:

 (A_{i})

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ATTACHMENT 1

CLEC/BellSouth Line Sharing Jointly Developed

Rules for Splitter Allocation

BellSouth is unable to obtain a sufficient number of splitters for placement in all central offices requested by competitive local exchange carriers ("CLECs") by June 6, 2000. As a result of the current shortage of splitters, CLECs and BellSouth developed the following rules for splitter allocation. These rules shall apply until such time as those CLECs participating in the creation of the rules agree that the regular splitter installation rules should apply.

- 1. There shall be a single CLEC priority list of central offices that shall consist of the Georgia CLEC priority list combined with the priority list from the other states in BellSouth's nine-state region (the "Priority List"). This priority list shall be used for filling orders; it shall determine the order in which splitters will be deployed in those central offices for which splitters have been ordered.
- 2. During the allocation period, a CLEC may order 24 ports or 96 ports. In either event, BellSouth shall install a 96 port splitter in accordance with the Priority List. However, during the allocation period, in the event a CLEC orders 96 ports, BellSouth will only allocate 24 ports of the 96 port splitter to the first CLEC that orders a splitter for that central office, thus creating a backlog of 72 ports that have already been ordered by that CLEC ("Backlog"). In the event of a Backlog, BellSouth will charge CLEC a monthly recurring charge appropriate for the number of ports allocated to CLEC. In addition, if CLEC requested a 96 port splitter, it shall pay a non-recurring charge for a 96 port splitter, but shall pay no non-recurring charges when additional ports are added to alleviate the Backlog.
- 3. BellSouth will allocate, on a first-come/first-served basis, the remaining 72 ports of the splitter (in blocks of 24 ports) to the other CLECs that place an order for a splitter at that same central office.

Orders Submitted by Three (3) P.M. EST, April 28, 2000 with Due Date of June 6, 2000 or Sooner

4. A firm order for a splitter issued to the BellSouth Complex Resale Support Group (CRSG) on or by Three (3) P.M. EST, April 28, 2000, with due date of June 6, 2000, or sooner, will be given priority over orders received after three (3) P.M. EST, April 28, 2000. Orders for the first 200 splitters received prior to April 28, 2000, will be installed on or before June 5, 2000, and shall be installed in accordance with the priority list. The first 25 splitter orders shall be installed no later than May 22, 2000.

- 5. In the event CLECs submit to BellSouth more than 200 splitter orders on or before three (3) P.M. EST, April 28, 2000, BellSouth shall install fifty (50) splitters a week each week after June 5, 2000.
- 6. In the event there are more than four (4) orders submitted on or April 28, 2000, for a splitter at a particular central office, a second splitter will be installed at that central office in accordance with the Priority List.
- 7. Backlogs associated with orders submitted on or before April 28, 2000 will be fulfilled in their entirety before any orders received after April 28, 2000 are worked. In fulfilling a Backlog, the CLEC's additional ports may not be on the same shelf as the initial 24 ports.

Orders Received after Three (3) P.M. EST, April 28, 2000

- 8. Irrespective of the Priority List, no orders received after three (3) P.M. EST, April 28, 2000, will be worked until after all orders received on or before three (3) P.M. EST, April 28, 2000 have been completed.
- 9. Once all orders received on or before April 28, 2000, have been worked in their entirety, orders received after April 28, 2000, will have a minimum interval of forty-two (42) calendar days from date of receipt.

Orders Submitted with Due Dates After June 6, 2000

10. Any order submitted on or before April 28, 2000, with a due date of after June 6, 2000, will be completed according to the due date provided there is available inventory and all orders with a due date of June 6, 2000 or earlier have been completed.

Georgia Rating/Ranking of Central Offices for Linesharing March 9, 2000 Covad, Rhythms, Northpoint, New Edge

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CLLI Combined Renking

MATTGAMA	1
RSWLGAMA	2
ATLNGABU	3
ATLNGAPP	4
DLTHGAHS	5
ATLNGASS	6
CHMBGAMA	7
AGSTGAAU	8
LRVLGAOS	8
MRTTGAEA	10
SMYRGAMA	11
LLBNGAMA	12
WDSTGACR	13
ATHNGAMA	14
AGSTGAFL	15
AGSTGATH	16
JNBOGAMA	17
NRCRGAMA	18
ATLNGATH	19
ALPRGAMA	20
DNWDGAMA	21
CMNGGAMA	22
AGSTGAMT	23
ALBYGAMA	24
GSVLGAMA	25
SNLVGAMA	25
ATLNGAIC	27
ATLNGAEP	28
TUKRGAMA	29
ROMEGATL	30
VLDSGAMA	31
MACNGAMT	32
ASTLGAMA	33
SMYRGAPF	34
DGVLGAMA	35
ATLNGAEL	36
SNMTGALA	37
MACNGAVN	38 39
WRRBGAMA	
NWNNGAMA	41
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GRENGAMA	43
PANLGAMA	44
BUFRGABH	45
ATLNGACD	46
MACNGAGP	47
SVNHGABS	48
ATLNGACS	49
PTCYGAMA	50
RVDLGAMA	51
STBRGANH	52
MCDNGAGS	53
ATLNGAWE	54
SVNHGADE	55
SVNHGAWB	56
ATLNGAGR	57
ATLNGAAD	58
CRVLGAMA	59
ACWOGAMA	60
ATLNGABH	61
FYVLGASG	62
SVNHGAGC	63
SVNHGAWI	64
ATLNGAFP	65
ATLNGAHR	66
PWSPGAAS	67
CRTNGAMA	68
ATLNGALA	69
MARWGAMA	70
CLMBGAMT	71
CLMBGAMW	72
LTHNGAJS	73
CVTNGAMT	74
DLLSGAES	75
FRBNGAEB	76
CLMBGABV	77
BRWKGAMA	78
ATLNGAQS	79
CNTNGAXB	80
LGVLGACS	81
SSISGAES	81

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BellSouth Central Offices (All states excluding GA)

Ref.#	CLLI	State	Combined CLEC
312 P	RANFLMA	FL	1
1330M	MPHTNBA	TN	2
1362 N	SVLTNMT	TN	3
202 G	SVLFLNW	FL	4
114	LBSALMA	AL	5
13 B	RHMALCH	AL	6
268 M	LORFLMA	IFL I	7
1337 M	MPHTNMA	TN	8
285 0	RLDFLAP	FL	9
1335 M	MPHTNGT	TN	10
208 H	LWDFLPE	FL	11
289 0	RLDFLPH	FL	12
1333 M	MPHTNEL	TN	13
324 5	TRTFLMA	FL	14
14BI	RHMALCP	AL	15
15 BI	RHMALEL	AL	16
1141 C	MASCSN	ISC	17
1240 CI	HTGTNNS	TN	18
	MPHTNOA	TN	19
1073 RI	GHNCSI	NC	20
299 PI	MBHFLCS	FL	21
698 N	NORLASW	LA	22
1354 N	SVLTNBW	TN	23
1309 KI	NVLTNMA	TN	24
16 BI	HMALEN_	AL	25
17 BI	HMALEW_	AL	26
1345 M	RBOTNMA	TN	27
1364 N	SVLTNUN	TN	28
623 KI	NARLABR	LA	29
	ARYNCCE	NC	30
333 W	PBHFLGA	FL	31
	SVLTNCH	TN	32
1363 NS	SVLTNST	TN	33
429 LS	SVLKYAP	KY	34
20 BF	HMALHW	AL	35
21 BI	RHMALMT	AL	36
	YTLAMA	LA	37
	NTNTNMA	TN	38
	NORLAMT	LA	39
	CRTFLMA	FL	40
	CATFLSA	FL	41
	MPHTNSL	TN	42
the second s	MPHTNMT	TN	43
	NSCFLFP	FL	44
	RHMALOM		45
	YBHFLMA	FL	46
1/010	DITCLMA	156	47

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1352 NSVLTNAP	TN	48
1332 MMPHTNCT	TN	49
334 WPBHFLGR	FL	50
249 MIAMFLCA	IFL	51
732 SLIDLAMA	LA	52
1307 KNVLTNBE	TN	53
64 MTGMALDA	AL	54
24 BRHMALRC	AL	55
26 BRHMALVA	AL	56
196 FTPRFLMA	FL	57
	TN	المراجي المحدد المنتقاة بخنيفت والمتكري التكور الأبيد المتوالي المتراكر
1272 FKLNTNMA		58
695 NWORLARY	LA	59
1019 GNBONCAS	INC	60
1068 RLGHNCGL	INC	61
692 NWORLAMP	LA	62
1310KNVLTNWH	TN	63
179 DYBHFLPO	FL	64
34 BSMRALMA	AL	65
148 BCRTFLBT	FL	66
233 JPTRFLMA	FL	67
1357 NSVLTNDO	TN	68
697 NWORLASK	LA	89
189 FTLDFLJA	FL	70
262 MIAMFLAR	FL	71
288 ORLDFLPC	FL	72
1361 NSVLTNMC	TN	والمتحد والمتح
		73
667 MONRLAMA	LA	74
664 MNFDLAMA		75
157 BYBHFLMA	FL	76
170 DLBHFLKP	FL	77
554 BTRGLAGW	LA	78
1237 CHTGTNDT	TN	79
232 JCVLFLWC	FL	80
253 MIAMFLHL	FL	81
988 CHRLNCCE	NC	82
431 LSVLKYBR	KY	83
1353 NSVLTNBV	TN	84
1158 FLRNSCMA	SC	85
171 DLBHFLMA	FL	86
174 DRBHFLMA	FL	87
1323 MAVLTNMA	TN	88
1358 NSVLTNGH	TN	89
230 JCVLFLSJ	FL	90
301 PMBHFLMA	FL	90
265 MIAMFLWD	FL	92
287 ORLDFLMA	FL	
1386 NSVLTNWM	TN	93
164 COCOFLMA	FL	94
187 FTLDFLCR	FL	95
		96
188 FTLDFLCY	FL	97
330 VRBHFLMA	FL	98
1280 GDVLTNMA	TN	89

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696 NWORLASC	LA	100
264 MIAMFLSO	FL	101
989 CHRLNCCR	NC	102
683 NWORLAAR	LA	103
1311 KNVLTNYH	TN	104
557 BTRGLAMA	LA	105
190 FTLDFLMR	FL	106
191 FTLDFLOA	FL	107
1250 CLVLTNMA	TN	108
987 CHRLNCCA	NC	109
430 LSVLKYBE	KY	110
338 WPBHFLRP	FL	111
271 MNDAFLLO	FL	112
		The second s
229 JCVLFLRV	FL	113
1020 GNBONCEU	NC	114
306 PNSCFLBL	FL	115
192 FTLDFLPL	FL	116
194 FTLDFLSU	FL	117
1236 CHTGTNBR	TN	118
986 CHRLNCBO	NC	119
687 NWORLACM	LA	120
1004 CPHLNCRO	NC	121
209 HLWDFLWH	IFL	122
1341 MMPHTNST	TN	123
996 CHRLNCSH	NC	124
848 JCSNMSCP	MS	125
195 FTLDFLWN	IFL	التفاقية ويرجع ويستقربون والمنقان ويوقع والمتحدين مرقع فالتبرية توابد والكا
The second s		126
206 HLWDFLHA	FL	127
969 AHVLNCOH	NC	128
995 CHRLNCRE	NC	129
227 JCVLFLNO	FL	130
442 LSVLKYWE	KY	131
1069 RLGHNCHO	NC	132
436 LSVLKYOA	KY	133
992 CHRLNCLP	NC	134
356 BWLGKYMA	KY	135
207 HLWDFLMA	FL	136
218 JCBHFLMA	FL	137
305 PNCYFLMA	FL	138
1022 GNBONCLA	INC	139
220 JCVLFLAR	FL	140
335 WPBHFLHH	FL	141
319 SNFRFLMA	FL	141
439 LSVLKYSM	KY	142
222 JCVLFLCL	FL	
90 TSCLALMT	the second s	144
221 JCVLFLBW	AL FL	145
	Statement of the local division of the local	146
223 JCVLFLFC	FL	147
1247 CLEVTNMA	TN	148
201 GSVLFLMA	FL	149
691 NWORLAMC	LA	150
300 PMBHFLFE	FL	151

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1169 GNVLSCWR SC 204 327 TTVLFLMA FL 205 260 MIAMFLPB FL 206 261 MIAMFLPL FL 207 849 JCSNMSMB MS 208 1188 MNPLSCES SC 209 577 CVTNLAMA LA 210 279 NDADFLOL FL 211 998 CHRLNCUN NC 212 1071 RLGHNCMO NC 213 1130 CHTNSCNO SC 214 310 PNSCFLWA FL 215 276 NDADFLAC FL 216 266 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 686 NWORLACA LA 220 1067 RLGHNCGA NC 223 1207 SPBGSCMA SC 224
260 MIAMFLPB FL 206 261 MIAMFLPL FL 207 849 JCSNMSMB MS 208 1188 MNPLSCES SC 209 577 CVTNLAMA LA 210 279 NDADFLOL FL 211 998 CHRLNCUN NC 212 1071 RLGHNCMO NC 213 1130 CHTNSCNO SC 214 310 PN\$CFLWA FL 215 276 NDADFLAC FL 216 266 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 686 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNRLAHN LA 223 1207 SPBGSCMA SC 228 <t< td=""></t<>
261 MIAMFLPL FL 207 848 JCSNMSMB MS 208 1188 MNPLSCES SC 209 577 CVTNLAMA LA 210 279 NDADFLOL FL 211 998 CHRLNCUN NC 212 1071 RLGHNCMO NC 213 1130 CHTNSCNO SC 214 310 PNSCFLWA FL 215 276 NDADFLAC FL 216 266 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 686 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225
849 JCSNMSMB MS 208 1188 MNPLSCES SC 209 577 CVTNLAMA LA 210 279 NDADFLOL FL 211 998 CHRLNCUN NC 212 1071 RLGHNCMO NC 213 1130 CHTNSCNO SC 214 310 PNSCFLWA FL 215 276 NDADFLAC FL 216 266 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 666 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 228
1188/MNPLSCES SC 209 577 CVTNLAMA LA 210 279 NDADFLOL FL 211 998 CHRLNCUN NC 212 1071 RLGHNCMO NC 213 1130 CHTRLSCNO SC 214 310 PNSCFLWA FL 215 276 NDADFLAC FL 216 266 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 666 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 226 302 PMBHFLTA FL 227 <td< td=""></td<>
577 CVTNLAMA LA 210 279 NDADFLOL FL 211 998 CHRLNCUN NC 212 1071 RLGHNCMO NC 213 1130 CHTNSCNO SC 214 310 PN\$CFLWA FL 215 276 NDADFLAC FL 216 266 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 686 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 <
279 NDADFLOL FL 211 998 CHRLNCUN NC 212 1071 RLGHNCMO NC 213 1130 CHTNSCNO SC 214 310 PNSCFLWA FL 215 276 NDADFLAC FL 216 286 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 666 INWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 230
998 CHRLNCUN NC 212 1071 RLGHNCMO NC 213 1130 CHTNSCNO SC 214 310 PNSCFLWA FL 215 276 NDADFLAC FL 216 266 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 666 INWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 230 28 BRHMALWL AL 231
1071 RLGHNCMO NC 213 1130 CHTNSCNO SC 214 310 PN\$CFLWA FL 215 276 NDADFLAC FL 216 286 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 666 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDAOFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231
1130 CHTNSCNO SC 214 310 PN\$CFLWA FL 215 276 NDADFLAC FL 216 266 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 666 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN </td
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276 NDADFLAC FL 216 266 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 686 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 524 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDAOFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYTS KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 <t< td=""></t<>
266 MIAMFLWM FL 217 177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 686 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDAOFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 <
177 DYBHFLOB FL 218 1138 CLMASCSA SC 219 686 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 <
1138 CLMASCSA SC 219 686 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYTS KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 438 LSVLKYSL KY 237 <
686 NWORLACA LA 220 1067 RLGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 228 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYTS KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 <t< td=""></t<>
1067 ALGHNCGA NC 221 336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYTS KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 <t< td=""></t<>
336 WPBHFLLE FL 222 624 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYTS KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
S24 KNNRLAHN LA 223 1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 228 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 436 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
1207 SPBGSCMA SC 224 1080 SLBRNCMA NC 225 278 NDADFLGG FL 228 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
1080 SLBRNCMA NC 225 278 NDADFLGG FL 226 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 436 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
278 NDAOFLGG FL 228 302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 436 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
302 PMBHFLTA FL 227 1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
1143 CLMASCSW SC 228 440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
440 LSVLKYTS KY 229 1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
1257 CRTHTNMA TN 230 28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
28 BRHMALWL AL 231 435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
435 LSVLKYJT KY 232 639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
639 LFYTLAVM LA 233 332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 436 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
332 WPBHFLAN FL 234 1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 436 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
1369 OKRGTNMT TN 235 126 HNVIALUN AL 236 436 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
126 HNVIALUN AL 236 438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
438 LSVLKYSL KY 237 483 PMBRKYMA KY 238 292 ORPKFLRW FL 239 559 BTRGLASB LA 240
292 ORPKFLAW FL 239 559 BTRGLASB LA 240
292 ORPKFLRW FL 239 559 BTRGLASB LA 240
<u>ام به مختلا این باغیری به می مقدمه به مصب کار این این به مرد می از این به مصر می می این به مصر می معالم می مح</u> د (
<u>ام به مختلا این باغیری به می مقدمه به مصب کار این این به مرد می از این به مصر می می این به مصر می معالم می مح</u> د (
433 LSVLKYFC KY 242
432 LSVLKYCW KY 243
1300 JCSNTNMA TN 244
S61 BTRGLAWN LA 245
1101 WNSLNCLE NC 246
1277 GALLTNMA TN 247
556 BTRGLAIS LA 248
726 SHPTLABS LA 249
689 NWORLALK LA 250
1254 CNVLTNMA TN 251
1254 CNVLTNMA TN 251 642 LKCHLADT LA 252
1254 CNVLTNMA TN 251 642 LKCHLADT LA 252 727 SHPTLACL LA 253
1254 CNVLTNMA TN 251 642 LKCHLADT LA 252

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728 SHPTLAHD	LA	256
1031 HNVLNCCH	NC	257
971 APEXNCCE	NC	258
990 CHRLNCDE	NC	259
1346 MRTWTNMA	TN	260
852 JCSNMSRW	MS	261
1394 SPEDTNMA	ITN	262
685 MNVLLAMA	LA	263
1023 GNBONCMC	NC	264
1106 AIKNSCMA	SC	265
991 CHRLNCER	NC	266
1072 ALGHNCSB	NC	267
645ILKCHLAUN	LA	268
1045 LNTNNCMA	INC	269
263 MIAMFLSH	IFL	270
1017 GLBONCMA	NC	271
1308 KNVLTNFC	TN	272
	SC	
1135 CLMASCCH		273
1100 WNSLNCGL	NC	274
824 GLPTMSTS	MS	275
258 MIAMFLNS	FL	276
67 MTGMALNO	AL	277
259 MIAMFLOL	FL	278
1398 SVVLTNMT	TN	279
993 CHRLNCMI	NC	280
1085 SSVLNCMA	INC	261
982 BURLNCEL	NC	282
731 SHPTLASG	LA	283
1024 GNBONCPG	NC	284
74 PHCYALMA	AL	285
244 MIAMFLAL	FL	286
296 PCBHFLNT	FL	287
1037 KNDLNCCE	INC	288
165 COCOFLME	IFL	289
434 LSVLKYHA	KY	290
838 HTBGMSMA	MS	291
1078 SELMNCMA	INC	292
60 MOBLALSK	AL	293
1009 DVSNNCPO	INC	294
582 DNSPLAMA	LA	295
1098 WNSLNCCL	NC	296
10 AUBNALMA	AL	297
1083 SRFDNCCE	NC	298
399 FRFTKYMA	KY	299
247 MIAMFLBC	FL	300
1248 CLMATNMA	TN	300
1018 GNBONCAP	NC	302
1136 CLMASCDF	SC	
1105 ZBLNNCCE	NC	303
321 STAGFLMA	IFL	304
1096 WNDLNCPI	NC	305
846 JCSNMSBL	MS	306
- 10 DIA DOL	INIO	307

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11 BLFNALMA	AL	308
427 LSVLKY26	KY	309
193 FTLOFLSG	FL	310
1242 CHTGTNRO	TN	311
212 HMSTFLNA	FL	312
159 CCBHFLMA	FL	313
985 CARYNCWS	NC	314
560 BTRGLASW	LA	315
295 PAHKFLMA	FL	318
1133 CLMASCAR	SC	317
250 MIAMFLDB	FL.	318
122 HNVIALLW	AL	319
1066 RLGHNCDU	NC	320
1142 CLMASCSU	SC	321
210HMSTFLEA	FL	322
154 BLGLFLMA	FL	323
1258 CRVLTNMA	TN	324
851 JCSNMSPC	IMS	325
1241 CHTGTNRB	TN	326
1053 MGTNNCGR	NC	327
BITSCLALDH	AL	328
ADD HNVIALRA	AL	329
730 SHPTLAQB	LA	330
978 BOONNCKI	INC	331
839 HTBGMSWE	MS	332
BIATHNALMA	AL	333
610 HMNDLAMA	ILA	334
874 MDSNMSES	MS	335
71 OPLKALMT	AL	336
769 BILXMSED	MS	337
269 MLTNFLRA	FL	338
1301 JCSNTNNS	TN	339
55 MOBLALPR	AL	340
552 BTRGLABK	ILA	341
847 JCSNMSCB	MS	342
437 LSVLKYSH	KY	343
1129 CHTNSCLB	SC	344
492 RCMDKYMA	KY	345
411 HNSNKYMA	KY	346
1040 LENBNCHA	NC	347
1190 NAGSSCMA	SC	348
77 PRVLALMA	AL	349
213HTISFLMA	FL	350
972 ARDNNCCE	INC	351
200 GLBRFLMC	FL	352
823 GLPTMSLY	MS	353
315 PTSLFLSO	FL	354
51 MOBLALAP	AL	355
1127 CHTNSCJM	SC	356
893 OCSPMSGO	MS	357
91 TSCLALNO	AL	358
317 SBSTFLMA	FL	359

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527 WNCHKYMA	KY	360
58 MOBLALSF	AL	361
1239 CHTGTNMV	TN	362
1016 GLBONCAD	NC	363
770 BILXMSMA	MS	364
1400 TLLHTNMA	TN	365
109 FRHPALMA	AL	366
1368 NWPTTNMT	TN	367
66 MOBLALSA	AL	368
666 MONRLADS	LA	369
668 MONRLAWM	LA	370
57 MOBLALSE	AL	371
404 GRTWKYMA	KY	372
970 AHVLNCOT	NC	373
1385 SHVLTNMA	TN	374
780 BRNDMSES	MS	375
1414 WNCHTNMA	TN	376
1347 MSCTTNMT	TN	377
1315 LNCYTNMA	TN	378
240 LYHNFLOH	FL	379
1374 PLSKTNMA	TN	380
1317 LRBGTNMA	TN	381
555 BTRGLAHR	LA	382
294 PACEFLPV	FL	383
850 JCSNMSNR	MS	384
1243 CHTGTNSE	TN	385
204 HBSDFLMA	FL	386
1319 LXTNTNMA	TN	387
1343 MNCHTNMA	TN	388
1249 CLTNTNMA	TN	389
322 STAGFLSH	FL	390
1041 LENRNCHU	NC	391
308 PNSCFLHC	FL	392
1285 GTBGTNMT	TN	393
968 AHVLNCBI	NC	394
1238 CHTGTNHT	TN	395
304 PNCYFLCA	FL	396

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EXHIBIT TGW – 14

Amendment to the Interconnection Agreement Between Northpoint Communications, Inc. and BellSouth

AMENDMENT TO THE INTERCONNECTION AGREEMENT BETWEEN NORTHPOINT COMMUNICATIONS, INC. and BELLSOUTH TELECOMMUNICATIONS, INC. DATED JUNE 9, 1998

THIS AMENDMENT ("Amendment") is made by and between BellSouth Telecommunications, Inc. ("BellSouth") and NorthPoint Communications, Inc. ("NorthPoint"), as of the 26th day of May 2000. (BellSouth and NorthPoint are collectively referred to as the "Parties".)

WHEREAS, the Parties executed an Interconnection Agreement on June 9, 1998, (the "Agreement"); and

WHEREAS, the Parties desire to amend the Agreement to set forth the terms and conditions relating to BellSouth providing to NorthPoint unbundled access to the high frequency spectrum of BellSouth's local loops as a network element.

NOW, THEREFORE, for and in consideration of the promises contained herein, the parties to this Amendment, intending to be legally bound, hereby agree as follows:

1.0 Attachment 2 of the Agreement shall be amended by adding the following Section 16:

16 HIGH FREQUENCY SPECTRUM NETWORK ELEMENT

16.1 GENERAL

BellSouth shall provide NorthPoint access to the high frequency portion of the local loop as an unbundled network element ("High Frequency Spectrum") at the rates set forth in Section 4 herein. BellSouth shall provide NorthPoint with the High Frequency Spectrum irrespective of whether BellSouth chooses to offer xDSL services on the loop.

16.1.1 The High Frequency Spectrum is defined as the frequency range above the voiceband on a copper loop facility carrying analog circuit-switched voiceband transmissions. Access to the High Frequency Spectrum is intended to allow NorthPoint the ability to provide Digital Subscriber Line ("xDSL") data services. The High Frequency Spectrum shall be available for any version of xDSL presumed acceptable for deployment pursuant to 47 C.F.R. Section 51.230, including, but not limited to, ADSL, RADSL, and any other xDSL technology that is presumed to be acceptable for deployment pursuant to FCC rules. BellSouth will continue to have access to the low frequency portion of the loop spectrum (from 300 Hertz to at least 3000 Hertz, and potentially up to 3400 Hertz, depending on equipment and facilities) for the purposes of providing voice service. NorthPoint shall only use xDSL technology that is within the PSD mask parameters set forth in T1.413 or other applicable industry standards. NorthPoint shall provision xDSL service on the High Frequency Spectrum in accordance with the applicable Technical Specifications and Standards.

- 16.1.2 The following loop requirements are necessary for NorthPoint to be able to access the High Frequency Spectrum; an unconditioned. 2-wire copper loop. An unconditioned loop is a copper loop with no load coils, low-pass filters, range extenders, DAMLs, or similar devices and minimal bridged taps consistent with ANSI T1.413 and T1.601. The process of removing such devices is called "conditioning." BellSouth shall charge and NorthPoint shall pay as interim rates, the same rates that BellSouth charges for conditioning stand-alone loops (e.g., unbundled copper loops, ADSL loops, and HDSL loops) until permanent pricing for loop conditioning is established either by mutual agreement or by a state public utility commission. The interim costs for conditioning are subject to true up as provided in paragraph 4.0. BellSouth will condition loops to enable NorthPoint to provide xDSL-based services on the same loops the incumbent is providing analog voice service, regardless of loop length. BellSouth is not required to condition a loop for shared-line xDSL if conditioning of that loop significantly degrades BellSouth's voice service. BellSouth shall charge, and NorthPoint shall pay, for such conditioning the same rates BellSouth charges for conditioning stand-alone loops (e.g., unbundled copper loops, ADSL loops, and HDSL loops.) If NorthPoint requests that BellSouth condition a loop longer than 18,000 ft. and such conditioning significantly degrades the voice services on the loop. NorthPoint shall pay for the loop to be restored to its original state.
- 16.1.3 NorthPoint's meet point is the point of termination for NorthPoint's or the toll main distributing frame in the central office ("Meet Point"). BellSouth will use jumpers to connect the NorthPoint's connecting block to the splitter. The splitter will route the High Frequency Spectrum on the circuit to the NorthPoint's xDSL equipment in the NorthPoint's collocation space.
- 16.1.4 NorthPoint shall have access to the Splitter for test purposes, irrespective of where the Splitter is placed in the BellSouth premises.

16.2 PROVISIONING OF HIGH FREQUENCY SPECTRUM AND SPLITTERS

- 16.2.1 BellSouth will provide NorthPoint with access to the High Frequency Spectrum as follows:
 - 16.2.1.1 BellSouth is unable to obtain a sufficient number of splitters for placement in all central offices requested by competitive local exchange carriers ("CLECs") by June 6, 2000. Therefore, BellSouth, NorthPoint and other CLECs have developed a process for allocating the initial orders of splitters. BellSouth will install all splitters ordered on or before April 28, 2000, in accordance with the schedule set forth in Exhibit A of this Agreement. Once all splitters ordered by all CLECs on or before April 28, 2000, have been installed, BellSouth will install splitters within forty-two (42) calendar days of NorthPoint's submission of such order to the BellSouth Complex Resale Support Group; provided, however, that in the event BellSouth did not have reasonable notice that a particular central office was to have a splitter installed therein, the forty-two (42) day interval shall not apply. Collocation itself or an application for collocation will serve as reasonable notice. BellSouth and NorthPoint will reevaluate this forty-two (42) day interval on or before August 1, 2000.
 - 16.2.1.2 On or after June 6, 2000, once a splitter is installed on behalf of NorthPoint in a central office, NorthPoint shall be entitled to order the High Frequency Spectrum on lines served out of that central office.
 - 16.2.1.3 BellSouth will select, purchase, install, and maintain a central office POTS splitter and provide NorthPoint access to data ports on the splitter. In the event that BellSouth elects to use a brand of splitter other than Siecor, the Parties shall renegotiate the recurring and non-recurring rates associated with the splitter. In the event the Parties cannot agree upon such rates, the then current rates (final or interim) for the Siecor splitter shall be the interim rates for the new splitter. BellSouth will provide NorthPoint with a carrier notification letter at least 30 days before of such change and shall work collaboratively with NorthPoint to select a

mutually agreeable brand of splitter for use by BellSouth. NorthPoint shall thereafter purchase ports on the splitter as set forth more fully below.

BellSouth will install the splitter in (i) a common area close to the NorthPoint collocation area, if possible; or (ii) in a BellSouth relay rack as close to the NorthPoint DS0 termination point as possible. For purposes of this section, a common area is defined as an area in the central office in which both Parties have access to a common test access point. BellSouth will cross-connect the splitter data ports to a specified NorthPoint DS0 at such time that a NorthPoint end user's service is established. The parties shall work collaboratively towards providing NorthPoint the ability to hard-wire rather than cross connect to the splitter data ports.

16.2.1.5 The High Frequency Spectrum shall only be available on loops on which BellSouth is also providing, and continues to provide, analog voice service. In the event the end-user terminates its BellSouth provided voice service for any reason, and NorthPoint desires to continue providing xDSL service on such loop, NorthPoint shall be required to purchase the full stand-alone loop unbundled network element. In the event BellSouth disconnects the end-user's voice service pursuant to its tariffs or applicable law, and NorthPoint desires to continue providing xDSL service on such loop, NorthPoint shall be required to purchase the full stand-alone loop unbundled network element. BellSouth shall give NorthPoint notice in a reasonable time prior to disconnect, which notice shall give NorthPoint an adequate opportunity to notify BellSouth of its intent to purchase such loop. The Parties shall work collaboratively towards the mode of notification and the time periods for notice.

16.2.1.6 NorthPoint and BellSouth shall continue to work together collaboratively to develop systems and processes for provisioning the High Frequency Spectrum in various real life scenarios. BellSouth and NorthPoint agree that NorthPoint is entitled to purchase the High Frequency Spectrum on a loop that is provisioned over fiber fed digital loop

16.2.1.4

carrier. BellSouth will provide NorthPoint with access to feeder subloops at UNE prices. BellSouth and NorthPoint will work together to establish methods and procedures for providing NorthPoint access to the High Frequency Spectrum over fiber fed digital loop carriers by August 1, 2000.

- 16.2.1.7 Only one competitive local exchange carrier shall be permitted access to the High Frequency Spectrum of any particular loop.
- 16.2.1.8 To order the High Frequency Spectrum on a particular loop, NorthPoint must have a DSLAM, or access to a DSALM, that serves the end-user of such loop. BellSouth shall allow NorthPoint to order splitters in central offices where NorthPoint is in the process of collocating or augmenting their current collocation arrangement. BellSouth will begin billing NorthPoint the Recurring and Non-Recurring charges associated with the splitter once notification of the completed splitter installation is provided to NorthPoint by BellSouth via the splitter completion notice. BellSouth will install these splitters within the interval provided in paragraph 16.2.1.1.
- 16.2.1.9 BellSouth will devise a splitter order form that allows NorthPoint to order a portion of the shelf or a full shelf of splitter ports.
- 16.2.1.10 BellSouth will provide NorthPoint the Local Service Request ("LSR") format to be used when ordering the High Frequency Spectrum.
- 16.2.1.11 BellSouth will initially provide access to the High Frequency Spectrum within the following intervals:

16.2.1.11.1

Lines	FOC or Error notice	After LSR Receipt
1-5	48 hours manual Less than 24 hours electronic	3 Business days
6-10	48 hours manual Less than 24 hours electronic	5 Business days
10 +	48 hours manual Less than 24 hours electronic	To Be Negotiated

BellSouth and NorthPoint will re-evaluate these intervals on or before August 1, 2000. Upon BellSouth's deployment of real-time, flow through ordering systems referenced in 16.2.1.12, BellSouth will provide FOCs and error notification to NorthPoint in real-time, or as close to real-time as possible, and in no event greater than a monthly average of 4 hours.

16.2.1.12 NorthPoint will initially use BellSouth's existing pre-qualification functionality and order processes to pre-qualify line and order the High Frequency Spectrum. NorthPoint and BellSouth will continue to work together to modify these functionalities and processes to better support provisioning the High Frequency Spectrum. In particular, BellSouth will work with NorthPoint to develop a real-time, mechanized, integratable preordering and ordering functionality with real-time flow through functionality with a target of the 4th Quarter 2000.

16.3 MAINTENANCE AND REPAIR

- 16.3.1 NorthPoint shall have access, for test, repair, and maintenance purposes, to any loop as to which it has access to the High Frequency Spectrum. NorthPoint may access the loop at the point where the combined voice and data signal exits the central office splitter.
- 16.3.2 BellSouth will be responsible for repairing voice services and the physical line between the network interface device at the customer premise and the Meet Point of demarcation in the central office. NorthPoint will be responsible for repairing data services. Each Party will be responsible for maintaining its own equipment.
- 16.3.3 If the problem encountered appears to impact primarily the xDSL service, the end user should call NorthPoint. If the problem impacts primarily the voice service, the end user should call BellSouth. If both services are impaired, the recipient of the call should coordinate with the other service provider(s).
- 16.3.4 BellSouth and NorthPoint will work together to diagnose and resolve any troubles reported by the end-user and to develop a process for repair of lines as to which NorthPoint has access to the High Frequency Spectrum. The Parties will continue to work

together to address customer initiated repair requests and other customer impacting maintenance issues to better support unbundling of High Frequency Spectrum.

16.3.4.1 The Parties will be responsible for testing and isolating troubles on its respective portion of the loop. Once a Party ("Reporting Party") has isolated a trouble to the other Party's ("Repairing Party") portion of the loop, the Reporting Party will notify the Repairing Party that the trouble is on the Repairing Party's portion of the loop. The Repairing Party will take the actions necessary to repair the loop if it determines a trouble exists in its portion of the loop.

- 16.3.4.2 If a trouble is reported on either Party's portion of the loop and no trouble actually exists, the Repairing Party may charge the Reporting Party for any dispatching and testing (both inside and outside the central office) required by the Repairing Party in order to confirm the loop's working status.
- 16.3.4.3 BellSouth and NorthPoint will work together to provide NorthPoint the ability to have remote access to BellSouth's testing capability on a non discriminatory basis for those loops where NorthPoint has access to the High Frequency Spectrum.
- 16.3.5 In the event NorthPoint's deployment of xDSL on the High Frequency Spectrum significantly degrades the performance of other advanced services or of BellSouth's voice service on the same loop, BellSouth shall notify NorthPoint and allow twentyfour (24) hours to cure the trouble. If NorthPoint fails to resolve the trouble, BellSouth may discontinue NorthPoint's access to the High Frequency Spectrum on such loop.

16.4 PRICING

16.4.1 BellSouth and NorthPoint agree to the following negotiated, interim rates for the High Frequency Spectrum. All interim prices will be subject to true up based on either mutually agreed to permanent pricing or permanent pricing established in a line sharing cost proceeding conducted by state public utility commissions. In the event interim prices are established by state

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public utility commissions before permanent prices are established, either through arbitration or some other mechanism, the interim prices established in this Agreement will be changed to reflect the interim prices mandated by the state public utility commissions; however, no true up will be performed until mutually agreed to permanent prices are established or permanent prices are established by state public utility commissions. Once a docket in a particular state in BellSouth's region has been opened to determine permanent prices for the High Frequency Spectrum, BellSouth will provide cost studies for that state for the High Frequency Spectrum upon NorthPoint's written request, within 30 days or such other date as may be ordered by a state commission. All cost related information shall be provided pursuant to a proprietary, nondisclosure agreement.

16.4.2 BellSouth and NorthPoint enter into this Agreement without waiving current or future relevant legal rights and without prejudicing any position BellSouth or NorthPoint may take on relevant issues before state or federal regulatory or legislative bodies or courts of competent jurisdiction. This clause specifically contemplates but is not limited to: (a) the positions BellSouth or NorthPoint may take in any cost docket related to the terms and conditions associated with access to the High Frequency Spectrum; and (b) the positions that BellSouth or NorthPoint might take before the FCC or any state public utility commission related to the terms and conditions under which BellSouth must provide NorthPoint with access to the High Frequency Spectrum. The interim rates set forth herein were adopted as a result of a compromise between the parties and do not reflect either party's position as to final rates for access to the High Frequency Spectrum.

		1				RATES BY	STATE			
DESCRIPTION	USOC	AL	FL	GA	KY	M	MS	NC	SC	TN
SYSTEM, SPLITTER - 96	ULSDA									
Monthly recurning		\$100	1\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100
Non Recurring - 1st		\$150	\$150	\$300	\$300	\$150	\$300	\$300	\$300	\$150
Non Recurring - Add'l.		\$0	50	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Non Recurring - Disconnect Only		\$150	\$150	NA	NA	\$150	NA	NA	NA	\$150
SYSTEM, SPLITTER - 24 LINE CAPACITY	ULSDB			T						
Monthly recurring		\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25
Non Recurring		\$150	\$150	\$300	\$300	\$150	\$300	\$300	\$300	\$150
Non Recurring - Add'l.		50	\$0	\$0	\$0	50	\$0	\$0	\$0	\$0
Non Recurring – Disconnect		\$150	\$150	NA	NA	\$150	NA	NA	NA	\$150
LOOP CAPACITY, LINE	ULSDC	1						1		

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ACTIVATION - PER OCCURRENCE		\$6.00	56.00	\$6,00	\$6.00	\$6.00	\$5.00	\$6.00	\$6.00	\$6.00
Monthly recurring										
Non Recurring - 1st	1	\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40	\$40
Non Recurring - Add'l.		\$22	\$22	\$22	\$22	\$22	\$22	\$22	\$22	\$22
SUBSEQUENT ACTIVITY	ULSDS									
Non Recurring - 1st		\$30	\$30	\$30	\$30	\$30	\$30	\$30	1\$30	\$30
Non Recurring - Add'l.		\$15	\$15	\$15	\$15	\$15	\$15	\$15	\$15	\$15

16.4.3 Any element necessary for interconnection that is not identified above is priced as currently set forth in the Agreement.

2.0 BellSouth shall make available to NorthPoint any agreement for the High Frequency Spectrum entered into between BellSouth and any other CLEC. If NorthPoint elects to adopt such agreement, NorthPoint shall adopt all rates, terms and conditions relating to the High Frequency Spectrum in such agreement.

3.0 In the event of a conflict between the terms of this Amendment and the terms of the Interconnection Agreement, the terms of this Amendment shall prevail.

4.0 All of the other provisions of the Agreement shall remain in full force and effect.

5.0 Either or both of the Parties is authorized to submit this Amendment to the respective state regulatory authorities for approval subject to Section 252(e) of the Federal Telecommunications Act of 1996.

IN WITNESS WHEREOF, the Parties hereto have caused this Amendment to be executed by their respective duly authorized representatives on the date indicated below.

NorthPoint Communications, Inc.

By:___

Name: Chinn A. Harris

Title: His of Fer Consel

Date: 615/00

BellSouth Telecommunications, Inc. By:

Name: Jerry Hendrix

Title: Senior Director

5/31/00 Date:

EXHIBIT A

CLEC/BellSouth Line Sharing Jointly Developed

Rules for Splitter Allocation

BellSouth is unable to obtain a sufficient number of splitters for placement in all central offices requested by competitive local exchange carriers ("CLECs") by June 6, 2000. As a result of the current shortage of splitters, CLECs and BellSouth developed the following rules for splitter allocation. These rules shall apply until such time as those CLECs participating in the creation of the rules agree that the regular splitter installation rules should apply.

- 1. There shall be a single CLEC priority list of central offices that shall consist of the Georgia CLEC priority list combined with the priority list from the other states in BellSouth's nine-state region (the "Priority List"). This priority list shall be used for filling orders; it shall determine the order in which splitters will be deployed in those central offices for which splitters have been ordered. Georgia central offices (CO) will have priority over other state's COs.
- 2. During the allocation period, a CLEC may order 24 ports or 96 ports. In either event, BellSouth shall install a 96 port splitter in accordance with the Priority List. However, during the allocation period, in the event a CLEC orders 96 ports, BellSouth will only allocate 24 ports of the 96 port splitter to the first CLEC that orders a splitter for that central office, thus creating a backlog of 72 ports that have already been ordered by that CLEC ("Backlog"). In the event of a Backlog, BellSouth will charge CLEC a monthly recurring charge appropriate for the number of ports allocated to CLEC. In addition, if CLEC requested a 96 port splitter, it shall pay a non-recurring charge for a 96 port splitter, but shall pay no non-recurring charges when additional ports are added to alleviate the Backlog.
- 3. BellSouth will allocate, on a first-come/first-served basis, the remaining 72 ports of the splitter (in blocks of 24 ports) to the other CLECs that place an order for a splitter at that same central office.

Orders Submitted by April 28, 2000 with Due Date of June 6, 2000 or Sooner

4. A firm order for a splitter issued to the BellSouth Complex Resale Support Group (CRSG) on or by April 28, 2000, with due date of June 6, 2000, or sooner, will be given priority over orders received after April 28, 2000.

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Orders for the first 200 splitters received prior to April 28, 2000, will be installed on or before June 5, 2000, and shall be installed in accordance with the priority list. The first 25-splitter orders shall be installed no later than May 22, 2000.

- 5. In the event CLECs submit to BellSouth more than 200 splitter orders on or before April 28, 2000, BellSouth shall install fifty (50) splitters a week each week after June 5, 2000.
- 6. In the event there are more than four (4) orders submitted on or before April 28, 2000, for a splitter at a particular central office, a second splitter will be installed at that central office in accordance with the Priority List.
- 7. Backlogs associated with orders submitted on or before April 28, 2000 will be fulfilled in their entirety before any orders received after April 28, 2000 are worked. In fulfilling a Backlog, the CLEC's additional ports may not be on the same shelf as the initial 24 ports.

Orders Received after April 28, 2000

- 8. Irrespective of the Priority List, no orders received after April 28, 2000, will be worked until after all orders received on or before April 28, 2000 have been completed.
- 9. Once all orders received on or before April 28, 2000, have been worked in their entirety, orders received after April 28, 2000, will have a minimum interval of forty-two (42) calendar days from date of receipt.

Orders Submitted with Due Dates After June 6, 2000

 Any order submitted on or before April 28, 2000, with a due date of after June 6, 2000, will be completed according to the due date provided there is available inventory and all orders with a due date of June 6, 2000 or earlier have been completed.

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Georgia Rating/Ranking of Central Offices for Linesharing March 9, 2000 Covad, Rhythms, NorthPoint, New

Covad, Rhythms, NorthPoint, New Edge

CLLI **Combined Ranking**

MRTTGAMA	1
RSWLGAMA	2
ATLNGABU	3
ATLNGAPP	4
DLTHGAHS	5
ATLNGASS	6
CHMBGAMA	7
AGSTGAAU	8
LRVLGAOS	9
MRTTGAEA	10
SMYRGAMA	11
LLBNGAMA	12
WDSTGACR	13
ATHNGAMA	14
AGSTGAFL	15
AGSTGATH	16
JNBOGAMA	17
NRCRGAMA	18
ATLNGATH	19
ALPRGAMA	20
DNWDGAMA	21
CMNGGAMA	22
AGSTGAMT	23
ALBYGAMA	24
GSVLGAMA	25
SNLVGAMA	28
ATLNGAIC	27
ATLNGAEP	28
TUKRGAMA	29
ROMEGATL	30
VLDSGAMA	31
MACNGAMT	32
ASTLGAMA	33
SMYRGAPF	34
DGVLGAMA	35
ATLNGAEL	36
SNMTGALR	37
CNYRGAMA	38
MACNGAVN	39
WRRBGAMA	40
NWNNGAMA	41

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ATLNGAWD	42
GRFNGAMA	43
PANLGAMA	44
BUFRGABH	45
ATLNGACD	46
MACNGAGP	47
SVNHGABS	48
ATLNGACS	49
PTCYGAMA	50
RVDLGAMA	51
STBRGANH	52
MCDNGAGS	53
ATLNGAWE	54
SVNHGADE	55
SVNHGAWB	56
ATLNGAGR	57
ATLNGAAD	58
CRVLGAMA	59
ACWOGAMA	60
ATLNGABH	61
FYVLGASG	62
SVNHGAGC	63
SVNHGAWI	64
ATLNGAFP	65
ATLNGAHR	66
PWSPGAAS	67
CRTNGAMA	68
ATLNGALA	69
MRRWGAMA	70
CLMBGAMT	71
CLMBGAMW	72
LTHNGAJS	73
CVTNGAMT	74
DLLSGAES	75
FRBNGAEB	76
CLMBGABV	77
BRWKGAMA	78
ATLNGAQS	79
CNTNGAXB	80
LGVLGACS	81
SSISGAES	81
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BeilSouth Central Offices (All states excluding GA)

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Ref. #	ĊLU	State	Combined CLEC Rank
312	PRRNFLMA	FL	1
	MMPHTNBA	TN	2
	NSVLTNMT	TN	3
	GSVLFLNW	FL	4
1	ALBSALMA	AL	5
13	BRHMALCH	AL	8
268	MLBRFLMA	FL	7
1337	MMPHTNMA	TN	8
285	ORLDFLAP	FL	9
1335	MMPHTNGT	TN	10
208	HLWDFLPE	FL	11
289	ORLDFLPH	FL	12
1333	MMPHTNEL	TN	13
324	STRTFLMA	FL	14
- internet and int	BRHMALCP	AL	15
15	BRHMALEL	AL	16
1141	CLMASCSN	SC	17
A REAL PROPERTY AND INCOME.	CHTGTNNS	TN	18
_	MMPHTNOA	TN	19
the second se	RLGHNCSI	NC	20
	PMBHFLCS	FL	21
the second se	NWORLASW	LA	22
and the second se	NSVLTNBW	TN	23
and the second designment of the second design	KNVLTNMA	TN	24
	BRHMALEN	AL	25
	BRHMALEW	AL	26
	MRBOTNMA	TN	27
	NSVLTNUN	TN	28
	KNNRLABR	LA	29
	CARYNCCE	NC	30
	WPBHFLGA	FL	31
the second se	NSVLTNCH	TN	32
the second se	NSVLTNST	TN	33
	LSVLKYAP	KY	34
	BRHMALHW	AL	35
	BRHMALMT	AL	36
	LFYTLAMA	LA	37
	KNTNTNMA	TN	38
	NWORLAMT	LA	39
	BCRTFLMA	FL	40
	BCRTFLSA	FL	41
and the state of t	MMPHTNSL	TN	42
the state of the s	MMPHTNMT	TN	43
	PNSCFLFP	FL	44
	BRHMALOM	AL	45
	BRHMALOX	AL	46
176	DYBHFLMA	FL	47

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1352 NSVLTNAP	TN	48
1332 MMPHTNCT	TN	49
334 WPBHFLGR	FL	50
249 MIAMFLCA	FL	51
732 SLIDLAMA	LA	52
1307 KNVLTNBE	TN	53
64 MTGMALDA	AL	54
24 BRHMALRC	AL	55
26 BRHMALVA	AL	58
196 FTPRFLMA	FL	57
1272 FKLNTNMA	TN	58
695 NWORLARV	LA	59
1019 GNBONCAS	NC	60
1068 RLGHNCGL	NC	61
692 NWORLAMR	LA	62
1310 KNVLTNWH	TN	63
179 DYBHFLPO	FL	64
34 BSMRALMA	AL	65
148 BCRTFLBT	FL	66
233 JPTRFLMA	FL	67
	TN	68
1357 NSVLTNDO		
697 NWORLASK	LA FL	69 70
189 FTLDFLJA	IFL	70
262 MIAMFLRR		
288 ORLDFLPC	FL	72
1361 NSVLTNMC	TN	73
667 MONRLAMA	LA	74
664 MNFDLAMA	LA	75
157 BYBHFLMA	FL	76
170 DLBHFLKP	FL	77
554 BTRGLAGW	LA	78
1237 CHTGTNDT	TN	79
232 JCVLFLWC		80
253 MIAMFLHL	FL	81
988 CHRLNCCE	NC	82
431 LSVLKYBR	KY	83
1353 NSVLTNBV	TN	84
1158 FLRNSCMA	SC	85
171 DLBHFLMA	FL	86
174 DRBHFLMA	FL	87
1323 MAVLTNMA	TN	88
1358 NSVLTNGH	TN	89
230 JCVLFLSJ	FL	90
301 PMBHFLMA	FL	91
265 MIAMFLWD	FL	92
287 ORLDFLMA	FL	93
1366 NSVLTNWM	TN	94
164 COCOFLMA	FL	95
187 FTLDFLCR	FL	96
188 FTLDFLCY	FL	97
330 VRBHFLMA	FL	98
1280 GDVLTNMA	TN	99

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696 NWORLASC	LA	100
264 MIAMFLSO	FL	101
989 CHRLNCCR	NC	102
683 NWORLAAR	LA	103
1311 KNVLTNYH	TN	104
557 BTRGLAMA	ILA	105
190 FTLDFLMR	FL	106
191 FTLDFLOA	FL	107
1250 CLVLTNMA	TN	108
987 CHRLNCCA	NC	109
430 LSVLKYBE	KY	110
338 WPBHFLRP	FL	111
the second s	FL	112
271 MNDRFLLO		
229 JCVLFLRV	FL	113
1020 GNBONCEU	NC	114
306 PNSCFLBL	FL	115
192 FTLDFLPL	FL	116
194 FTLDFLSU	FL	117
1236 CHTGTNBR	TN	118
986 CHRLNCBO	NC	119
687 NWORLACM	LA	120
1004 CPHLNCRO	NC	121
209 HLWDFLWH	FL	122
1341 MMPHTNST	TN	123
996 CHRLNCSH	INC	124
848 JCSNMSCP	MS	125
195 FTLDFLWN	FL	126
206 HLWDFLHA	FL	127
and the second secon	INC NC	128
969 AHVLNCOH		120
995 CHRLNCRE	NC	
227 JCVLFLNO	FL	130
442 LSVLKYWE	KY	131
1069 RLGHNCHO	NC	132
436 LSVLKYOA	KY	133
992 CHRLNCLP	NC	134
356 BWLGKYMA	KY	135
207 HLWDFLMA	FL	136
218 JCBHFLMA	FL	137
305 PNCYFLMA	FL	138
1022 GNBONCLA	NC	139
220 JCVLFLAR	FL	140
335 WPBHFLHH	FL	141
319 SNFRFLMA	FL	142
439 LSVLKYSM	KY	143
222 JCVLFLCL	FL	144
90 TSCLALMT	AL	145
221 JCVLFLBW	FL	145
	FL	
223 JCVLFLFC	1771	147
4047 OL EL TLANA		
1247 CLEVTNMA	TN	148
201 GSVLFLMA	TN FL	148 149
	TN	148

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293 OVIDFLCA	FL	152
594 FKTNLAMA	LA	153
231 JCVLFLSM	FL	154
66 MTGMALMT	AL	155
243 MIAMFLAE	FL	156
245 MIAMFLAP	FL	157
99 DCTRALMT	AL	158
217 JCBHFLAB	FL	159
286 ORLDFLCL	IFL	160
1102 WNSLNCVI	INC	161
428 LSVLKYAN	KY	162
981 BURLNCDA	NC	163
59 MOBLALSH	AL	164
	IFL .	165
314 PTSLFLMA		
246 MIAMFLBA	FL	168
248 MIAMFLBR		167
123 HNVIALMT		168
19 BRHMALFS	AL	169
690 NWORLAMA	LA	170
1287 HDVLTNMA	TN	171
290 ORLDFLSA	FL	172
1028 GSTANCSO	NC	173
52 MOBLALAZ	AL	174
1211 SUVLSCMA	SC	175
251 MIAMFLFL	FL	176
252 MIAMFLGR	FL	177
1131 CHTNSCWA	ISC	178
54 MOBLALOS	AL	179
75 PNSNALMA		and the second
1058 MTOLNCCE		180
and the second	INC NO	181
1070 RLGHNCJO	NC	182
1099 WNSLNCFI	NC	183
124 HNVIALPW	AL	184
472 OWBOKYMA	KY	185
254 MIAMFLIC	FL	186
1125 CHTNSCDP	SC	187
255 MIAMFLKE	FL	188
1140 CLMASCSH	SC	189
441 LSVLKYVS	KY	190
311 PNVDFLMA	FL	191
277 NDADFLBR	FL	192
1312 LBNNTNMA	TN	193
1166 GNVLSCDT	SC	194
281 NSBHFLMA	FL	195
256 MIAMFLME	FL	196
257 MIAMFLNM	FL	197
558 BTRGLAOH	LA	198
1126 CHTNSCDT	ISC	199
33 BSMRALHT	AL	200
337 WPBHFLRB	FL	مصبحية فخفك يخصف بالمرفق والمراجع فالتقار
		201
291 ORPKFLMA	FL	202
997 CHRLNCTH	INC	203

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1169 GNVLSCWR	SC	204
327 TTVLFLMA	FL	205
260 MIAMFLPB	FL	206
261 MIAMFLPL	IFL	207
849 JCSNMSMB	MS	208
1188 MNPLSCES	SC	209
577 CVTNLAMA	LA	210
279 NDADFLOL	FL	211
998 CHRLNCUN	INC	212
1071 RLGHNCMO	INC	213
1130 CHTNSCNO	ISC	214
310 PNSCFLWA	FL	215
	IFL	and the second secon
276 NDADFLAC		216
266 MIAMFLWM	FL	217
177 DYBHFLOB	FL	218
1138 CLMASCSA	SC	219
686 NWORLACA	LA	220
1067 RLGHNCGA	NC	221
336 WPBHFLLE	FL	222
624 KNNRLAHN	LA	223
1207 SPBGSCMA	SC	224
1080 SLBRNCMA	NC	225
278 NDADFLGG	FL	226
302 PMBHFLTA	FL	227
1143 CLMASCSW	SC	228
440 LSVLKYTS	KY	229
1257 CRTHTNMA	TN	230
		230
28 BRHMALWL	AL	And the second se
435 LSVLKYJT	KY_	232
639 LFYTLAVM		233
332 WPBHFLAN	FL	234
1369 OKRGTNMT	TN	235
126 HNVIALUN	AL	236
438 LSVLKYSL	KY	237
483 PMBRKYMA	KY	238
292 ORPKFLRW	FL	239
559 BTRGLASB	LA	240
729 SHPTLAMA	LA	241
433 LSVLKYFC	KY	242
432 LSVLKYCW	KY	243
1300 JCSNTNMA	TN	244
561 BTRGLAWN	LA	245
1101 WNSLNCLE	NC	246
1277 GALLTNMA	TN	247
556 BTRGLAIS	LA	248
726 SHPTLABS		240
689 NWORLALK		and the second
		250
1254 CNVLTNMA	TN	251
642 LKCHLADT	LA	252
727 SHPTLACL	LA	253
1388 SMYRTNMA	TN	254
1262 DKSNTNMT	TN	255

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728 SHPTLAHD		256
1031 HNVLNCCH	NC	257
971 APEXNCCE	NC	258
990 CHRLNCDE	NC	259
1346 MRTWINMA	TN	260
852 JCSNMSRW	MS	261
1394 SPFDTNMA	TN	262
665 MNVLLAMA	LA	283
1023 GNBONCMC	NC	264
1106 AIKNSCMA	SC	265
991 CHRLNCER	INC	268
1072 RLGHNCSB	NC	267
645 LKCHLAUN	LA	268
1045 LNTNNCMA	NC	269
263 MIAMFLSH	FL	270
1017 GLBONCMA	INC	271
1308 KNVLTNFC	TN	272
1135 CLMASCCH	SC	273
1100 WNSLNCGL	NC	274
824 GLPTMSTS	MS	275
258 MIAMFLNS	FL	278
67 MTGMALNO	AL	277
the second s	FL	278
259 MIAMFLOL	the second s	279
1398 SVVLTNMT		280
993 CHRLNCMI	NC	280
1085 SSVLNCMA	NC	282
982 BURLNCEL	NC	the second s
731 SHPTLASG	LA	283
1024 GNBONCPG	NC	284
74 PHCYALMA		285
244 MIAMFLAL	FL	286
296 PCBHFLNT	<u> FL</u>	287
1037 KNDLNCCE	NC	288
165 COCOFLME	FL	289
434 LSVLKYHA	KY	290
838 HTBGMSMA	MS	291
1078 SELMNCMA		292
60 MOBLALSK	AL	293
1009 DVSNNCPO	NC	294
582 DNSPLAMA	LA	295
1098 WNSLNCCL	NC	296
10 AUBNALMA	AL.	297
1083 SRFDNCCE	NC	298
399 FRFTKYMA	KY	299
247 MIAMFLBC	FL	300
1248 CLMATNMA	TN	301
1018 GNBONCAP	NC	302
1136 CLMASCDF	SC	303
1105 ZBLNNCCE	NC	304
321 STAGFLMA	FL	305
1096 WNDLNCPI	NC	306
846 JCSNMSBL	MS	307

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		200
11 BLFNALMA	AL	308
427 LSVLKY28	KY	309
193 FTLDFLSG	FL	310
1242 CHTGTNRO	TN	311
212 HMSTFLNA	FL	312
159 CCBHFLMA	FL	313
985 CARYNCWS	NC	314
560 BTRGLASW	LA	315
295 PAHKFLMA	FL	318
1133 CLMASCAR	SC	317
250 MIAMFLDB	FL	318
122 HNVIALLW	AL	319
1066 RLGHNCDU	NC	320
1142 CLMASCSU	SC	321
210 HMSTFLEA	FL	322
154 BLGLFLMA	FL	323
1258 CRVLTNMA	TN	324
851 JCSNMSPC	MS	325
1241 CHTGTNRB	TN	328
1053 MGTNNCGR	NC	327
89 TSCLALDH	AL	328
ADD HNVIALRA	AL	329
730 SHPTLAQB	LA	330
978 BOONNCKI	NC	331
839 HTBGMSWE	MS	332
8 ATHNALMA	AL	333
610 HMNDLAMA	LA	334
874 MDSNMSES	MS	335
71 OPLKALMT	AL	336
769 BILXMSED	MS	337
269 MLTNFLRA	FL	338
1301 JCSNTNNS	TN	339
55 MOBLALPR	IAL	340
552 BTRGLABK	LA	341
847 JCSNMSCB	MS	342
437 LSVLKYSH	KY	343
1129 CHTNSCLB	SC	344
492 RCMDKYMA	KY	345
411 HNSNKYMA	KY	346
1040 LENRNCHA	NC	347
1190 NAGSSCMA		348
77 PRVLALMA	AL	349
213 HTISFLMA	FL	350
972 ARDNNCCE	NC	351
200 GLBRFLMC	FL	352
823 GLPTMSLY	MS	353
315 PTSLFLSO	FL	354
51 MOBLALAP	the second s	355
1127 CHTNSCJM		356
893 OCSPMSGC	and the second	357
91 TSCLALNO	AL	358
317 SBSTFLMA	IFL	359

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	104	240
527 WNCHKYMA	KY	360
58 MOBLALSF	AL	381
1239 CHTGTNMV	TN	362
1016 GLBONCAD	NC	363
770 BILXMSMA	MS	364
1400 TLLHTNMA	TN	365
109 FRHPALMA	AL	366
1368 NWPTTNMT	TN	367
56 MOBLALSA	AL	368
666 MONRLADS	LA	369
668 MONRLAWM	LA	370
57 MOBLALSE	AL	371
404 GRTWKYMA	KY	372
970 AHVLNCOT	NC	373
1385 SHVLTNMA	TN	374
780 BRNDMSES	MS	375
1414 WNCHTNMA	TN	376
1347 MSCTTNMT	TN	377
1315 LNCYTNMA	TN	378
240 LYHNFLOH	FL	379
1374 PLSKTNMA	TN	380
1317 LRBGTNMA	TN	381
555 BTRGLAHR	LA	382
294 PACEFLPV	FL	383
850 JCSNMSNR	MS	384
1243 CHTGTNSE	TN	385
204 HBSDFLMA	FL	388
1319 LXTNTNMA	TN	387
1343 MNCHTNMA	TN	388
1249 CLTNTNMA	TN	389
322 STAGFLSH	FL	390
1041 LENRNCHU	NC	391
308 PNSCFLHC	FL	392
1285 GTBGTNMT	TN	393
968 AHVLNCBI	NC	394
1238 CHTGTNHT	TN	395
304 PNCYFLCA	FL	396

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EXHIBIT TGW – 15

High Frequency Spectrum Network Element Amendment to the Interconnection Agreement Between Rhythms Links Inc. and BellSouth

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HIGH FREQUENCY SPECTRUM NETWORK ELEMENT AMENDMENT TO THE INTERCONNECTION AGREEMENT BETWEEN RHYTHMS LINKS INC. and BELLSOUTH TELECOMMUNICATIONS, INC. DATED JANUARY 8, 1999

THIS HIGH FREQUENCY SPECTRUM NETWORK ELEMENT AMENDMENT (the "Amendment") is made by and between BellSouth Telecommunications, Inc. ("BellSouth") and Rhythms Links Inc. ("Rhythms"), as of the 26th day of May 2000. (BellSouth and Rhythms are individually referred to as a "Party" and collectively referred to as the "Parties".)

WHEREAS, the Parties executed an Interconnection Agreement on January 8, 1999, (the "Agreement"); and

WHEREAS, the Parties desire to amend the Agreement to set forth the terms and conditions relating to BellSouth providing to Rhythms unbundled access to the high frequency spectrum of BellSouth's local loops as a network element.

NOW, THEREFORE, for and in consideration of the promises contained herein, the Parties to this Amendment, intending to be legally bound, hereby agree as follows:

- 1. Attachment 2 of the Agreement shall be amended by adding the following Section 16 to Attachment 2 of the Agreement:
 - 16 High Frequency Spectrum Network Element
 - 16.1 GENERAL

BellSouth shall provide Rhythms access to the high frequency portion of the local loop as an unbundled network element ("High Frequency Spectrum Network Element" or "High Frequency Spectrum") at the rates set forth in Section 4 herein. BellSouth shall provide Rhythms with the High Frequency Spectrum irrespective of whether BellSouth chooses to offer xDSL services on the loop.

16.1.1 The High Frequency Spectrum is defined as the frequency range above the voiceband on a copper loop facility carrying analog circuit-switched voiceband transmissions. Access to the High Frequency Spectrum is intended to allow Rhythms' the ability to provide Digital Subscriber Line ("xDSL") data services. The High Frequency Spectrum shall be available for any version of xDSL presumed acceptable for deployment pursuant to 47 C.F.R. Section 51.230, including, but not limited to, ADSL, RADSL, and any other xDSL technology that is presumed to be acceptable for deployment pursuant to FCC rules.

BellSouth will continue to have access to the low frequency portion of the loop spectrum (from 300 Hertz to at least 3000 Hertz, and potentially up to 3400 Hertz, depending on equipment and facilities) for the purposes of providing voice service. Rhythms shall only use xDSL technology that is within the PSD mask parameters set forth in T1.413 or other applicable industry standards. Rhythms shall provision xDSL service on the High Frequency Spectrum in accordance with the applicable Technical Specifications and Standards.

16.1.2

The following loop requirements are necessary for Rhythms to be able to access the High Frequency Spectrum: an unconditioned, 2-wire copper loop. An unconditioned loop is a copper loop with no load coils, low-pass filters, range extenders, DAMLs, or similar devices and minimal bridged taps consistent with ANSI T1.413 and T1.601. The process of removing such devices is called "conditioning." BellSouth shall charge and Rhythms shall pay as interim rates, the same rates that BellSouth charges for conditioning stand-alone loops (e.g., unbundled copper loops, ADSL loops, and HDSL loops) until permanent pricing for loop conditioning is established either by mutual agreement or by a state public utility commission. The interim costs for conditioning are subject to true up as provided in paragraph 4.0. BellSouth will condition loops to enable Rhythms to provide xDSL-based services on the same loops the incumbent is providing analog voice service, regardless of loop length. BellSouth is not required to condition a loop for shared-line xDSL if conditioning of that loop significantly degrades BellSouth's voice service. BellSouth shall charge, and Rhythms shall pay, for such conditioning the same rates BellSouth charges for conditioning stand-alone loops (e.g., unbundled copper loops, ADSL loops, and HDSL loops.). If Rhythms requests that BellSouth condition a loop longer than 18,000 ft. and such conditioning significantly degrades the voice services on the loop, Rhythms shall pay for the loop to be restored to its original state.

16.1.3

Rhythms' meet point is the point of termination for Rhythms' or the toll main distributing frame in the central office ("Meet Point"). BellSouth will use jumpers to connect the Rhythms' connecting block to the splitter. The splitter will route the High Frequency Spectrum on the

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circuit to the Rhythms' xDSL equipment in the Rhythms' collocation space.

- 16.1.4 Rhythms shall have access to the Splitter for test purposes, irrespective of where the Splitter is placed in the BellSouth premises.
- 16.1A BellSouth and Rhythms enter into this Agreement without waiving current or future relevant legal rights and without prejudicing any position BellSouth or Rhythms may take on relevant issues before state or federal regulatory or legislative bodies or courts of competent jurisdiction. This clause specifically contemplates but is not limited to: (a) the positions BellSouth or Rhythms may take in any cost docket related to the terms and conditions associated with access to the High Frequency Spectrum; and (b) the positions that BellSouth or Rhythms might take before the FCC or any state public utility commission related to the terms and conditions under which BellSouth must provide Rhythms with access to the High Frequency Spectrum, including but not limited to the positions that BellSouth or Rhythms might take before the Florida Public Service Commission in docket no. 12228-U.

16.2 PROVISIONING OF HIGH FREQUENCY SPECTRUM AND SPLITTER SPACE

BellSouth will provide Rhythms with access to the High Frequency Spectrum as follows:

16.2.1 BellSouth Owned Splitters

16.2.1.1 BellSouth is unable to obtain a sufficient number of splitters for placement in all central offices requested by competitive local exchange carriers ("CLECs") by June 6, 2000. Therefore, BellSouth, Rhythms and other CLECs have developed a process for allocating the initial orders of splitters. BellSouth will install all splitters ordered on or before April 28, 2000, in accordance with the schedule set forth in Attachment 1 of this Agreement. Once all splitters ordered by all CLECs on or before April 28, 2000, have been installed, BellSouth will install splitters within forty-two (42) calendar days of Rhythms' submission of such order to the BellSouth Complex Resale Support Group; provided, however, that in the event BellSouth did not have reasonable notice that a

particular central office was to have a splitter installed therein, the forty-two (42) day interval shall not apply. Collocation itself or an application for collocation will serve as reasonable notice. BellSouth and Rhythms will reevaluate this fortytwo (42) day interval on or before August 1, 2000.

16.2.1.2 After June 6, 2000, once a splitter is installed on behalf of Rhythms in a central office, Rhythms shall be entitled to order the High Frequency Spectrum on lines served out of that central office.

16.2.1.3

BellSouth will select, purchase, install, and maintain a central office POTS splitter and provide Rhythms access to data ports on the splitter. In the event that BellSouth elects to use a brand of splitter other than Siecor, the Parties shall renegotiate the recurring and non-recurring rates associated with the splitter. In the event the Parties cannot agree upon such rates, the then current rates (final or interim) for the Siecor splitter shall be the interim rates for the new splitter. BellSouth will provide Rhythms with a carrier notification letter at least 30 days before of such change and shall work collaboratively with Rhythms to select a mutually agreeable brand of splitter for use by BellSouth. Rhythms shall thereafter purchase ports on the splitter as set forth more fully below.

16.2.1.3.1 BellSouth will install the splitter in (i) a common area close to the Rhythms collocation area, if possible; or (ii) in a BellSouth relay rack as close to the Rhythms DS0 termination point as possible. For purposes of this section, a common area is defined as an area in the central office in which both Parties have access to a common test access point. BellSouth will cross-connect the splitter data ports to a specified Rhythms DS0 at such time that a Rhythms end user's service is established.

16.2.2 Rhythms Owned Splitters •

16.2.2.1 Upon completion of the conditions set forth in 16.2.2.2.1, 16.2.2.2.2, and 16.2.2.2.3, BellSouth (i) shall provide Rhythms with the option of purchasing, installing, and maintaining central office POTS splitters in its collocation arrangements, and (ii) shall enable Rhythms to obtain access to, and provide digital subscriber line services to Rhythms' Customers via, High Frequency Spectrum Network Elements that utilize such splitters.

16.2.2.2 Consistent with this splitter option, the Parties agree to meet collaboratively as often as necessary to resolve the following operational issues, in no event later than September 6 or sooner if possible:

- 16.2.2.2.1 Maintenance & Repair procedures must be established for locating and resolving voice troubles found to be in Rhythms' equipment or wiring.
- 16.2.2.2.2 Procedures will be developed for BellSouth's testing of voice circuits that enter Rhythms collocation arrangement.
- 16.2.2.2.3 COSMOS must be modified to be able to accept two CFA pair assignments from Rhythms when Rhythms orders High Frequency Spectrum. In order for this modification of COSMOS to be completed as quickly as possible, the Parties agree as follows;
 - 16.2.2.2.3.1 By July 6, 2000, Rhythms shall identify for BellSouth the cable pairs in specific central offices that Rhythms intends to use for line sharing; and
 - 16.2.2.3.2 BellSouth agrees to complete modifications to COSMOS for these cable pairs by September 6, 2000.
 - 16.2.2.3.2.1 If it is not technically feasible for BellSouth to complete these modifications by

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September 6, 2000, BellSouth will use its best efforts to develop a workaround solution that will enable Rhythms to provide its services using High Frequency Spectrum and Rhythms' splitters by September 6, 2000. In the event such a work-around must be developed, BellSouth agrees to work collaboratively with Rhythms to develop said work-around and the Parties shall use their best efforts to develop a work-around that enables BellSouth to access records for maintenance and repair purposes.

In the event Rhythms desires to place a splitter in its physical collocation space, and such placement does not require additional cabling, cable racking, or space, BellSouth will not require an application to modify existing collocation space pursuant to Attachment 4 of the Agreement. A splitter, for purposes of this Agreement, is a passive device requiring no power and emitting no heat. Rhythms shall provide BellSouth ten (10) calendar days advance written notice of its intent to place a splitter in its collocation space. Such notice shall include the following: (1) the date Rhythms anticipates commencing the work; and (2) the estimated date of completion. Prior to installation of the splitter, Rhythms or its certified vendor will provide a Methods of Procedure for each affected collocation space. In the event the equipment installed by Rhythms does not comply with Section 16.2.2.4, below, or with applicable provisions of Attachment 4 of the Agreement, BellSouth, upon delivery of written notice to Rhythms, may require Rhythms to remedy such non-compliance. Such remedy may include removal of the equipment installed if such removal is necessary to comply with Section 3.8 of Attachment 4 of the Agreement. BellSouth shall

16.2.2.3

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permit Rhythms a reasonable amount of time to remedy such noncompliance unless such noncompliance is of a character that poses an immediate and substantial threat of damage to property, injury or death to any person.

16.2.2.4 Any splitters installed by Rhythms in its collocation arrangements shall comply with ANSI T1.413, Annex E, or any future ANSI splitter standards. BellSouth shall also permit Rhythms to install any splitters in that BellSouth deploys or permits to be deployed for itself or any BellSouth Affiliate.

- The High Frequency Spectrum shall only be available on loops on which BellSouth is also providing, and continues to provide, analog voice service. In the event the end-user terminates its BellSouth provided voice service for any reason, and Rhythms desires to continue providing xDSL service on such loop, Rhythms shall be required to purchase the full stand-alone loop unbundled network element. In the event BellSouth disconnects the end-user's voice service pursuant to its tariffs or applicable law, and Rhythms desires to continue providing xDSL service on such loop, Rhythms shall be required to purchase the full stand-alone loop unbundled network element.
- 16.2.4 Rhythms and BellSouth shall continue to work together collaboratively to develop systems and processes for provisioning the High Frequency Spectrum in various real life scenarios. BellSouth and Rhythms agree that Rhythms is entitled to purchase the High Frequency Spectrum on a loop that is provisioned over fiber fed digital loop carrier. BellSouth will provide Rhythms with access to feeder subloops at UNE prices. BellSouth and Rhythms will work together to establish methods and procedures for providing Rhythms access to the High Frequency Spectrum over fiber fed digital loop carriers by August 1, 2000.
- 16.2.5 Only one competitive local exchange carrier shall be permitted access to the High Frequency Spectrum of any particular loop.
- 16.2.6 To order High Frequency Spectrum on a particular loop, Rhythms must have a DSLAM collocated in the central office that serves the end-user of such loop. BellSouth will work collaboratively with Rhythms to create a concurrent

16.2.3

process that allows Rhythms to order splitters in central offices where Rhythms is in the process of obtaining collocation space and enables BellSouth to install such splitters before the end of Rhythms' collocation provisioning interval. While that process is being developed, Rhythms may order splitters in a central office once it has installed its Digital Subscriber Line Access Multiplexer ("DSLAM") in that central office. BellSouth will install these splitters within the interval provided in paragraph 16.2.1.

- 16.2.7 For splitters owned by BellSouth (as described in Section 16.2.1 above), BellSouth will devise a splitter order form that allows Rhythms to order splitter ports in increments of 24 or 96 ports.
- 16.2.8 BellSouth will provide Rhythms the Local Service Request ("LSR") format to be used when ordering the High Frequency Spectrum.
- 16.2.9 BellSouth will initially provide access to the High Frequency Spectrum within the following intervals: Beginning on June 6, 2000, BellSouth will return a Firm Order Confirmation ("FOC") in no more than two (2) business days. Once BellSouth implements electronic OSS for High Frequency Spectrum, BellSouth will return a FOC in four (4) hours ninety-five percent (95%) of the time or, for orders that do not flow-through, in forty-eight (48) hours. BellSouth will provide Rhythms with access to the High Frequency Spectrum as follows:
 - 16.2.9.1 For 1-5 lines at the same address within three (3) business days from the receipt of Rhythms' LSR; 6-10 lines at same address within 5 business days; and more than 10 lines at the same address is to be negotiated. BellSouth and Rhythms will re-evaluate these intervals on or before August 1, 2000.
- 16.2.10 Rhythms will initially use BellSouth's existing prequalification functionality and order processes to prequalify line and order the High Frequency Spectrum. Rhythms and BellSouth will continue to work together to modify these functionalities and processes to better support provisioning the High Frequency Spectrum. BellSouth will use its best efforts to make available to Rhythms, by the fourth quarter of 2000, an electronic pre-ordering, ordering,

provisioning, repair and maintenance and billing functionalities for the High Frequency Spectrum.

16.2.11 In the event that BellSouth does not deliver, or knows that it will be unable to deliver, the High Frequency Spectrum to Rhythms on the due date, BellSouth will provide jeopardy notices to Rhythms in a timely manner according to processes and procedures to be worked out between BellSouth, Rhythms and other CLECs collaboratively.

16.3 MAINTENANCE AND REPAIR

Rhythms shall have access, for test, repair, and maintenance purposes, to any loop to which it has access to the High Frequency Spectrum. Consistent with the Amendment to the Agreement Between ACI Corp. and BellSouth Telecommunications, Inc. dated January 8, 1999 that became effective on December 13, 1999, Rhythms may access the High Frequency Spectrum at the point where the combined voice and data signal exits the central office splitter on a twenty-four (24) hour per day, seven (7) day per week basis and without the need for a BellSouth escort. Where BellSouth owns the splitter in a physical collocation arrangement, BellSouth shall provide Rhythms with access to splitters on such a basis regardless of where in a central office the splitter is located.

- 16.3.1 BellSouth will be responsible for repairing voice services and the physical line between the network interface device at the customer premise and the Meet Point of demarcation in the central office. Rhythms will be responsible for repairing data services. Each Party will be responsible for maintaining its own equipment.
- 16.3.2 If the problem encountered appears to impact primarily the xDSL service, the end user should call Rhythms. If the problem impacts primarily the voice service, the end user should call BellSouth. If both services are impaired, the recipient of the call should coordinate with the other service provider(s).
- 16.3.3 BellSouth and Rhythms will work together to diagnose and resolve any troubles reported by the end-user and to develop a process for repair of lines as to which Rhythms has access to the High Frequency Spectrum. The Parties will continue to work together to address customer initiated repair requests and other customer impacting maintenance issues to better support unbundling of High Frequency Spectrum.

- 16.3.3.1 The Parties will be responsible for testing and isolating troubles on its respective portion of the loop. Once a Party ("Reporting Party") has isolated a trouble to the other Party's ("Repairing Party") portion of the loop, the Reporting Party will notify the Repairing Party that the trouble is on the Repairing Party 's portion of the loop. The Repairing Party will take the actions necessary to repair the loop if it determines a trouble exists in its portion of the loop.
- 16.3.3.2 If a trouble is reported on either Party's portion of the loop and no trouble actually exists, the Repairing Party may charge the Reporting Party for any dispatching and testing (both inside and outside the central office) required by the Repairing Party in order to confirm the loop's working status.
- 16.3.3.3 BellSouth shall cure any troubles reported by Rhythms for the High Frequency Spectrum in the same interval in which BellSouth is required to cure a trouble reported for POTS line.
- 16.3.4 In the event Rhythms' deployment of xDSL on the High Frequency Spectrum significantly degrades the performance of other advanced services or of BellSouth's voice service on the same loop, BellSouth shall notify Rhythms and allow twenty-four (24) hours to cure the trouble. If Rhythms fails to resolve the trouble, BellSouth may discontinue Rhythms' access to the High Frequency Spectrum on such loop.

16.4 PRICING

BellSouth and Rhythms agree to the following negotiated, interim rates for the High Frequency Spectrum. All interim prices will be subject to true up based on either mutually agreed to permanent pricing or permanent pricing established in a line sharing cost proceeding or arbitration conducted by state public utility commissions. In the event interim prices are established by state public utility commissions before permanent prices are established, either through arbitration or some other mechanism, the interim prices established in this Agreement will be changed to reflect the interim prices mandated by the state public utility commissions; however, no true up will be performed until mutually agreed to permanent prices are established or permanent prices are established by state public utility commissions. Once a docket in a particular state in BellSouth's region has been opened to determine permanent prices for the High Frequency Spectrum, BellSouth will provide cost studies for that state for the High Frequency Spectrum upon Rhythms' written request, within 30 days or such other date as may be ordered by a state commission. All cost related information shall be provided pursuant to a proprietary, non-disclosure agreement negotiated by the Parties.

^{16.4.1} The interim rates set forth herein were adopted as a result of a compromise between the parties and do not reflect either party's position as to final rates for access to the High Frequency Spectrum.

DESCRIPTION	RATES BY STATE									
	USOC	AL	FL.	GA	KY	LA	MS	NC	SC	TN
SYSTEM, SPLITTER - 96 LINE CAPACITY	ULSDA									\uparrow
Monthly recurring		\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100	\$100
Non Recurring - 1st		\$300	\$150	\$300	\$300	\$300	\$300	\$300	\$300	\$300
Non Recurring - Add'i.		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	50
Non Recurring - Disconnect		NA	\$150	NA	NA	NA	NA	NA	NA	NA
SYSTEM, SPLITTER - 24 LINE CAPACITY	ULSOB									
Monthly recurring		\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25	\$25
Non Recurring		\$300	\$150	\$300	\$300	\$300	\$300	\$300	\$300	\$300
Non Recurring - Add'l.		\$0	\$0	\$0	\$0	\$0	50	50	\$0	50
Non Recurring – Disconnect Only		NA	\$150	NA	NA	NA	NA	NA	NA	NA
LINE ACTIVATION - PER OCCURRENCE	ULSDC	<u> </u>	+	+				1		-
Monthly recurring - OSS		\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00
Non Recurring, C.O. Wining - 1"		\$40	\$40	\$40	\$40	\$ 40	\$40	\$40	\$40	\$40
Non Recurring, C.O. Wining - Add'l.		\$22	\$22	\$22	\$22	\$22	\$22	\$22	\$22	\$22
SUBSEQUENT ACTIVITY - PER OCCURRENCE - Customer requested, C.O. Re-Wiring, etc.	ULSDS									
Non Recurring - 1st		\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30	\$30
Non Recurring - Add'l.		\$15	\$15	\$15	\$15	\$15	\$15	\$15	\$15	\$15

^{16.4.2} Any element necessary for interconnection that is not identified above is priced as currently set forth in the Agreement.

- 2. BellSouth shall make available to Rhythms any agreement for the High Frequency Spectrum entered into between BellSouth and any other CLEC. If Rhythms elects to adopt such agreement, Rhythms shall adopt all rates, terms and conditions relating to the High Frequency Spectrum in such agreement.
- 3. In the event of a conflict between the terms of this Amendment and the terms of the Interconnection Agreement, the terms of this Amendment shall prevail.

All of the other provisions of the Agreement shall remain in full force and effect.

5. Either or both of the Parties is authorized to submit this Amendment to the respective state regulatory authorities for approval subject to Section 252(e) of the Federal Telecommunications Act of 1996.

IN WITNESS WHEREOF, the Parties bereto have caused this Amendment to be executed by their respective duly authorized representatives on the date indicated below.

Rhythms Links Inc.

Ву:_____

Name: _____

Title:

Dete: _____

BellSouth Telecommunications By.

Name: Jerry He (drix

Title: Senior Director 26 00 Date:

- 4. All of the other provisions of the Agreement shall remain in full force and effect.
- 5. Either or both of the Parties is authorized to submit this Amendment to the respective state regulatory authorities for approval subject to Section 252(e) of the Federal Telecommunications Act of 1996.

IN WITNESS WHEREOF, the Parties hereto have caused this Amendment to be executed by their respective duly authorized representatives on the date indicated below.

Rhythms Links Inc.

BellSouth Telecommunications, Inc.

By: H Deis Name: Secve Title: 26,2000 Date: 0

By: _____ Name: Jerry Hendrix

Title: Senior Director

Date:_____

ATTACHMENT 1

CLEC/BellSouth Line Sharing Jointly Developed

Rules for Splitter Allocation

BellSouth is unable to obtain a sufficient number of splitters for placement in all central offices requested by competitive local exchange carriers ("CLECs") by June 6, 2000. As a result of the current shortage of splitters, CLECs and BellSouth developed the following rules for splitter allocation. These rules shall apply until such time as those CLECs participating in the creation of the rules agree that the regular splitter installation rules should apply.

- 1. There shall be a single CLEC priority list of central offices that shall consist of the Georgia CLEC priority list combined with the priority list from the other states in BellSouth's nine-state region (the "Priority List"). This priority list shall be used for filling orders; it shall determine the order in which splitters will be deployed in those central offices for which splitters have been ordered. Georgia central offices (CO) will have priority over other state's COs.
- 2. During the allocation period, a CLEC may order 24 ports or 96 ports. In either event, BellSouth shall install a 96 port splitter in accordance with the Priority List. However, during the allocation period, in the event a CLEC orders 96 ports, BellSouth will only allocate 24 ports of the 96 port splitter to the first CLEC that orders a splitter for that central office, thus creating a backlog of 72 ports that have already been ordered by that CLEC ("Backlog"). In the event of a Backlog, BellSouth will charge CLEC a monthly recurring charge appropriate for the number of ports allocated to CLEC. In addition, if CLEC requested a 96 port splitter, it shall pay a non-recurring charge for a 96 port splitter, but shall pay no non-recurring charges when additional ports are added to alleviate the Backlog.
- 3. BellSouth will allocate, on a first-come/first-served basis, the remaining 72 ports of the splitter (in blocks of 24 ports) to the other CLECs that place an order for a splitter at that same central office.

Orders Submitted by April 28, 2000 with Due Date of June 6, 2000 or Sooner

4. A firm order for a splitter issued to the BellSouth Complex Resale Support Group (CRSG) on or by April 28, 2000, with due date of June 6, 2000, or sooner, will be given priority over orders received after April 28, 2000. Orders for the first 200 splitters received prior to April 28, 2000, will be installed on or before June 5, 2000, and shall be installed in accordance with the priority list. The first 25 splitter orders shall be installed no later than May 22, 2000.

- 5. In the event CLECs submit to BellSouth more than 200 splitter orders on or before April 28, 2000, BellSouth shall install fifty (50) splitters a week each week after June 5, 2000.
- 6. In the event there are more than four (4) orders submitted on or before April 28, 2000, for a splitter at a particular central office, a second splitter will be installed at that central office in accordance with the Priority List.
- 7. Backlogs associated with orders submitted on or before April 28, 2000 will be fulfilled in their entirety before any orders received after April 28, 2000 are worked. In fulfilling a Backlog, the CLEC's additional ports may not be on the same shelf as the initial 24 ports.

Orders Received after April 28, 2000

- 8. Irrespective of the Priority List, no orders received after April 28, 2000 will be worked until after all orders received on or before April 28, 2000 have been completed.
- 9. Once all orders received on or before April 28, 2000 have been worked in their entirety, orders received after April 28, 2000 will have a minimum interval of forty-two (42) calendar days from date of receipt.

Orders Submitted with Due Dates After June 6, 2000

10. Any order submitted on or before April 28, 2000, with a due date of after June 6, 2000, will be completed according to the due date provided there is available inventory and all orders with a due date of June 6, 2000 or earlier have been completed.

Georgia Rating/Ranking of Central Offices for Line Sharing March 9, 2000

Rhythms, Covad, NorthPoint, New Edge

Combined Ranking CLLI

	1
MRTTGAMA	
RSWLGAMA	
ATLNGABU	
ATLNGAPP	
DLTHGAHS	
ATLNGASS	7
CHMBGAMA	8
AGSTGAAU	9
LRVLGAOS	10
MRTTGAEA	
SMYRGAMA	11
LLBNGAMA	12
WDSTGACR	13
ATHNGAMA	14
AGSTGAFL	15
AGSTGATH	16
JNBOGAMA	17
NRCRGAMA	18
ATLNGATH	19
ALPRGAMA	20
DNWDGAMA	21
CMNGGAMA	22
AGSTGAMT	23
ALBYGAMA	24
GSVLGAMA	25
SNLVGAMA	26
ATLNGAIC	27
ATLNGAEP	28
TUKRGAMA	29
ROMEGATL	30
VLDSGAMA	31
MACNGAMT	32
ASTLGAMA	33
SMYRGAPF	34
DGVLGAMA	35
ATLNGAEL	36
SNMTGALR	37
CNYRGAMA	38
MACNGAVN	39
WRRBGAMA	40
NWNNGAMA	41

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ATLNGAWD	42
GRFNGAMA	43
PANLGAMA	44
BUFRGABH	45
ATLNGACD	46
MACNGAGP	47
SVNHGABS	48
ATLNGACS	49
PTCYGAMA	50
RVDLGAMA	51
STBRGANH	52
MCDNGAGS	53
ATLNGAWE	54
SVNHGADE	55
SVNHGAWB	56
ATLNGAGR	57
ATLNGAAD	58
CRVLGAMA	59
ACWOGAMA	60
ATLNGABH	61
FYVLGASG	62
SVNHGAGC	63
SVNHGAWI	64
ATLNGAFP	65
ATLNGAHR	66
PWSPGAAS	67
CRTNGAMA	68
ATLNGALA	69
MRRWGAMA	70
CLMBGAMT	71
CLMBGAMW	72
LTHNGAJS	73
CVTNGAMT	74
DLLSGAES	75
FRBNGAEB	76
CLMBGABV	77
BRWKGAMA	78
ATLNGAQS	79
CNTNGAXB	80
LGVLGACS	81
SSISGAES	81

BellSouth Central Offices (All states excluding GA)

Ref. #	CLLI	State	Combined CLEC Rank
312	PRRNFLMA	FL	1
1330	MMPHTNBA	TN	2
	NSVLTNMT	TN	3
202	GSVLFLNW	FL	4
1	ALBSALMA	AL	5
13	BRHMALCH	AL	6
268	MLBRFLMA	FL	7
1337	MMPHTNMA	TN	8
285	ORLDFLAP	FL	9
1335	MMPHTNGT	TN	10
208	HLWDFLPE	FL	11
	ORLDFLPH	FL	12
1333	MMPHTNEL	TN	13
	STRTFLMA	FL	14
_	BRHMALCP	AL	15
	BRHMALEL	AL	16
1141	CLMASCSN	SC	17
	CHTGTNNS	TN	18
1339	MMPHTNOA	TN	19
1073	RLGHNCSI	NC	20
_	PMBHFLCS	FL	21
	NWORLASW	LA	22
	NSVLTNBW	TN	23
and the second se	KNVLTNMA	TN	24
and the second	BRHMALEN	AL	25
	BRHMALEW	AL	26
-	MRBOTNMA	TN	27
	NSVLTNUN	TN	28
	KNNRLABR	LA	29
and the second se	CARYNCCE	INC	30
	WPBHFLGA	FL	31
	NSVLTNCH	TN	32
the second se	NSVLTNST	TN	33
the second s	LSVLKYAP	KY	34
	BRHMALHW	AL	35
	BRHMALMT	AL	36
	LFYTLAMA	LA I	37
the second s	KNTNTNMA	TN	38
in the second	NWORLAMT	LA	39
	BCRTFLMA	FL	40
	BCRTFLSA	FL	41
and the second division of the second divisio	MMPHTNSL	TN	42
	MMPHTNMT	TN	43
	PNSCFLFP	FL	44
	BRHMALOM	AL	44
	BRHMALOX	AL	45
1/6	DYBHFLMA	FL	47

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1352 NSVLTNAP	TN	48
1332 MMPHTNCT	TN	49
334 WPBHFLGR	FL	50
249 MIAMFLCA	FL	51
732 SLIDLAMA	LA	52
1307 KNVLTNBE	TN	53
64 MTGMALDA	AL	54
24 BRHMALRC	AL	55
26 BRHMALVA	AL	56
196 FTPRFLMA	FL	57
1272 FKLNTNMA	TN	58
695 NWORLARV	LA	59
1019 GNBONCAS	NC	60
1068 RLGHNCGL	INC	61
692 NWORLAMR	ILA	62
	TN	63
1310 KNVLTNWH	FL	64
179 DYBHFLPO		
34 BSMRALMA		65
148 BCRTFLBT	FL	66
233 JPTRFLMA		67
1357 NSVLTNDO	TN	68
697 NWORLASK	<u>ILA</u>	69
189 FTLDFLJA	FL	70
262 MIAMFLRR	FL	71
288 ORLDFLPC	FL	72
1361 NSVLTNMC	TN	73
667 MONRLAMA		74
664 MNFDLAMA	<u> LA</u>	75
157 BYBHFLMA		76
170 DLBHFLKP	FL	77
554 BTRGLAGW	LA	78
1237 CHTGTNDT	ITN	79
232 JCVLFLWC	FL	80
253 MIAMFLHL	FL	81
988 CHRLNCCE	INC	82
431 LSVLKYBR	KY	83
1353 NSVLTNBV	TN	84
1158 FLRNSCMA	ISC	85
171 DLBHFLMA	FL	86
174 DRBHFLMA	FL	87
1323 MAVLTNMA	TN	88
1358 NSVLTNGH	TN	89
230 JCVLFLSJ	FL	90
301 PMBHFLMA	FL	91
265 MIAMFLWD	FL	92
287 ORLDFLMA	FL	93
1366 NSVLTNWM	TN	94
164 COCOFLMA	FL	95
187 FTLDFLCR	FL	96
188 FTLDFLCY	FL	97
330 VRBHFLMA	FL	98
1280 GDVLTNMA	TN	99

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	1	
696 NWORLASC	LA	100
264 MIAMFLSO	FL	101
989 CHRLNCCR	NC	102
683 NWORLAAR	LA	103
1311 KNVLTNYH	TN	104
557 BTRGLAMA	LA	105
190 FTLDFLMR	IFL	106
191/FTLDFLOA	IFL	107
1250 CLVLTNMA	TN	108
987 CHRLNCCA	NC	109
430 LSVLKYBE	KY	110
338WPBHFLRP	FL	111
271 MNDRFLLO	FL	112
229 JCVLFLRV	FL	113
1020 GNBONCEU	NC	114
	FL	115
306 PNSCFLBL	FL	116
192 FTLDFLPL	FL	117
194 FTLDFLSU	and the second division of the second divisio	Contraction of the local division of the loc
1236 CHTGTNBR	TN	118
986 CHRLNCBO	NC	119
687 NWORLACM	LA	120
1004 CPHLNCRO	NC	121
209 HLWDFLWH	FL	122
1341 MMPHTNST	TN	123
996 CHRLNCSH	NC	124
848 JCSNMSCP	MS	125
195 FTLDFLWN	FL	126
206 HLWDFLHA	FL	127
969 AHVLNCOH	NC	128
995 CHRLNCRE	NC	129
227 JCVLFLNO	FL	130
442 LSVLKYWE	KY	131
1069 RLGHNCHO	NC	132
436 LSVLKYOA	KY	133
992 CHRLNCLP	NC	134
356 BWLGKYMA	KY	135
207 HLWDFLMA	FL	136
218 JCBHFLMA	FL	137
305 PNCYFLMA	FL	138
1022 GNBONCLA	NC	139
220 JCVLFLAR	FL	140
335 WPBHFLHH	FL	141
319 SNFRFLMA	FL	141
439 LSVLKYSM	KY	143
222 JCVLFLCL	FL	143
90 TSCLALMT	AL	145
221 JCVLFLBW	FL	145
223 JCVLFLBW	FL	140
المهار الكرار المسالية الكاليب الكاسران وأحجاب الكربيس والمراج		
1247 CLEVTNMA	TN	148
201 GSVLFLMA	FL	149
691 NWORLAMC 300 PMBHFLFE	LA	150
	IFL	151

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293 OVIDFLCA FL 152 594 FKTNLAMA LA 153 231 JCVLFLSM FL 154 66 MTGMALMT AL 155 243 MIAMFLAE FL 156 245 MIAMFLAP FL 157 99 DCTRALMT AL 158 217 JCBHFLAB FL 159 286 ORLDFLCL FL 160 1102 WNSLNCVI NC 161 428 LSVLKVAN KY 162 981 BURLNCDA NC 163 59 MOBLALSH AL 164 314 PTSLFLMA FL 166 246 MIAMFLBA FL 166 246 MIAMFLBA FL 166 248 MAMFLBA FL 166 248 MAMFLBA FL 170 1231 HOVLTNMA TN 171
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123 INVIALMT AL 168 19 BRHMALFS AL 169 690 NWORLAMA LA 170 1287 HDVLTNMA TN 171 290 ORLDFLSA FL 172 1028 GSTANCSO NC 173 52 MOBLALAZ AL 174 1211 SUVLSCMA SC 175 251 MIAMFLFL FL 176 252 MIAMFLGR FL 177 1131 CHTNSCWA SC 178 54 MOBLALOS AL 179 75 PNSNALMA AL 180 1058 MTOLNCCE NC 181 1070 RLGHNCJO NC 182 1099 WNSLNCFI NC 183 124 HNVIALPW AL 184 472 OWBOKYMA KY 185 254 MIAMFLIC FL 186
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290 ORLDFLSA FL 172 1028 GSTANCSO NC 173 52 MOBLALAZ AL 174 1211 SUVLSCMA SC 175 251 MIAMFLFL FL 176 252 MIAMFLGR FL 177 1131 CHTNSCWA SC 178 54 MOBLALOS AL 179 75 PNSNALMA AL 180 1058 MTOLNCCE NC 181 1070 RLGHNCJO NC 182 1099 WNSLNCFI NC 183 124 HNVIALPW AL 184 472 OWBOKYMA KY 185 254 MIAMFLIC FL 186 1125 CHTNSCDP SC 187 255 MIAMFLKE FL 188 1140 CLMASCSH SC 189 441 LSVLKYVS KY 190 <t< td=""></t<>
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54 MOBLALOS AL 179 75 PNSNALMA AL 180 1058 MTOLNCCE NC 181 1070 RLGHNCJO NC 182 1099 WNSLNCFI NC 183 124 HNVIALPW AL 184 472 OWBOKYMA KY 185 254 MIAMFLIC FL 186 1125 CHTNSCDP SC 187 255 MIAMFLKE FL 188 1140 CLMASCSH SC 189 441 LSVLKYVS KY 190 311 PNVDFLMA FL 191 277 NDADFLBR FL 192 1312 LBNNTNMA TN 193
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1140 CLMASCSH SC 189 441 LSVLKYVS KY 190 311 PNVDFLMA FL 191 277 NDADFLBR FL 192 1312 LBNNTNMA TN 193
441 LSVLKYVS KY 190 311 PNVDFLMA FL 191 277 NDADFLBR FL 192 1312 LBNNTNMA TN 193
311 PNVDFLMA FL 191 277 NDADFLBR FL 192 1312 LBNNTNMA TN 193
277 NDADFLBR FL 192 1312 LBNNTNMA TN 193
1312 LBNNTNMA TN 193
1166 GNVLSCDT SC 194
281 NSBHFLMA FL 195
256 MIAMFLME FL 196
257 MIAMFLNM FL 197
558 BTRGLAOH LA 198
1126 CHTNSCDT SC 199
33 BSMRALHT AL 200
337 WPBHFLRB FL 201

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	100	204
1169 GNVLSCWR	SC	
327 TTVLFLMA	FL	205
260 MIAMFLPB	FL	206
261 MIAMFLPL	FL	207
849 JCSNMSMB	MS	208
1188 MNPLSCES	SC	209
577 CVTNLAMA	LA	210
279 NDADFLOL	FL	211
998 CHRLNCUN	INC	212
1071 RLGHNCMO	INC	213
1130 CHTNSCNO	SC	214
310 PNSCFLWA	FL	215
276 NDADFLAC	FL	216
266 MIAMFLWM	FL	217
177 DYBHFLOB	FL	218
1138 CLMASCSA	SC	219
686 NWORLACA	LA	220
1067 RLGHNCGA	NC	221
336 WPBHFLLE	FL	222
624 KNNRLAHN	LA	223
1207 SPBGSCMA	SC	224
1080 SLBRNCMA	NC	225
278 NDADFLGG	FL	226
302 PMBHFLTA	FL	227
1143 CLMASCSW	ISC	228
440 LSVLKYTS	KY	229
1257 CRTHTNMA	TN	230
28 BRHMALWL	AL	231
435 LSVLKYJT	KY	232
639 LEYTLAVM	LA	233
332 WPBHFLAN	IFL T	234
the second division of	TN	235
1369 OKRGTNMT		236
126 HNVIALUN	AL KY	237
438 LSVLKYSL		238
483 PMBRKYMA		239
292 ORPKFLRW	FL	239
559 BTRGLASB		
729 SHPTLAMA	LA	241
433 LSVLKYFC	KY	242
432 LSVLKYCW	KY	243
1300 JCSNTNMA	TN	244
561 BTRGLAWN	LA	245
1101 WNSLNCLE	NC	246
1277 GALLTNMA	TN	247
556 BTRGLAIS	LA	248
726 SHPTLABS	LA	249
689 NWORLALK	LA	250
1254 CNVLTNMA	TN	251
642 LKCHLADT	LA	252
727 SHPTLACL	LA	253
1388 SMYRTNMA	TN	254
1262 DKSNTNMT	TN	255

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	1	050
728 SHPTLAHD	LA	256
1031 HNVLNCCH	NC	257
971 APEXNCCE	NC	258
990 CHRLNCDE	NC	259
1346 MRTWTNMA	TN	260
852 JCSNMSRW	MS	261
1394 SPFDTNMA	TN	262
665 MNVLLAMA	LA	263
1023 GNBONCMC	NC	264
1106 AIKNSCMA	SC	265
991 CHRLNCER	NC	268
1072 RLGHNCSB	NC	267
645 LKCHLAUN	LA	268
1045 LNTNNCMA	NC	269
263 MIAMFLSH	FL	270
1017 GLBONCMA	INC	271
1308 KNVLTNFC	TN	272
1135 CLMASCCH	SC	273
1100/WNSLNCGL	NC	274
824 GLPTMSTS	MS	275
258 MIAMFLNS	FL	276
67 MTGMALNO	AL	277
and the second secon	IFL	278
259 MIAMFLOL	TN	279
1398 SVVLTNMT	INC	280
993 CHRLNCMI	and the second	the second s
1085 SSVLNCMA	NC	281
982 BURLNCEL	NC	282
731 SHPTLASG	LA	200
1024 GNBONCPG	NC	284
74 PHCYALMA	AL	285
244 MIAMFLAL	FL	286
296 PCBHFLNT	FL	287
1037 KNDLNCCE	NC	288
165 COCOFLME	FL	289
434 LSVLKYHA	KY	290
838 HTBGMSMA	MS	291
1078 SELMNCMA	NC	292
60 MOBLALSK	AL	293
1009 DVSNNCPO	NC	294
582 DNSPLAMA	LA	295
1098 WNSLNCCL	NC	296
10 AUBNALMA	AL	297
1083 SRFDNCCE	NC	298
399 FRFTKYMA	KY	299
247 MIAMFLBC	FL	300
1248 CLMATNMA	TN	301
1018 GNBONCAP	NC	302
1136 CLMASCDF	SC	303
1105 ZBLNNCCE	NC	304
321 STAGFLMA	FL	305
1096 WNDLNCPI	NC	306
846 JCSNMSBL	MS	307
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11 BLFN	IALMA	AL	308
427 LSVL	KY26	KY	309
193 FTLD	FLSG	FL	310
1242 CHT	and the second	TN	311
212 HMS		FL	312
159 CCB		FL	313
985 CAR		INC	314
560 BTR		LA	315
295 PAH		FL	316
1133 CLM		ISC	317
250 MIAN		FL	318
122 HNV		AL	319
1066 RLG		NC	320
1142 CLM		SC	321
210 HMS	المتحصين الأشاف المصحف عشائها	FL	322
and the second		FL	323
154 BLGL	والاراد البريجي والمناب	TN	323
1258 CRV		MS	325
851 JCSN			الأخاذ المتحدين فنبرج بمحجب بأنا عنامته بيراعينا والمحجب
1241 CHT	the second s	TN	326
1053 MGT		NC	327
89 TSCI		AL	328
	ALRA	AL	329
730 SHP		LA	330
978 BOO	· · · · · · · · · · · · · · · · · · ·	NC	331
839 HTB	GMSWE	MS	332
8 ATH!	NALMA	AL	333
610 HMN	DLAMA	LA	334
874 MDS	NMSES	MS	335
71 OPL	CALMT	AL	336
769 BILX	MSED	MS	337
269 MLTI	NFLRA	FL	338
1301 JCSN	ITNNS	TN	339
55 MOB	LALPR	AL	340
552 BTR	GLABK	LA	341
847 JCSN	MSCB	MS	342
437 LSVL		KY	343
1129 CHT		SC	344
492 RCM		KY	345
411 HNS		KY	346
1040 LEN		INC	347
1190 NAG		SC	348
77 PRV		AL	349
213 HTIS		FL	350
972 ARD		NC	351
200 GLB		FL	352
823 GLP		MS	353
315 PTS	_	FL	353
51 MOB		and the second	and the second
1127 CHT		AL	355
the second s		SC	356
893 OCS		MS.	357
91 TSC		AL	358
317 SBS	ITLMA	FL	359

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527 WNCHKYMA KY 360 58 MOBLALSF AL 361 1239 CHTGTNMV TN 362 1016 GLBONCAD NC 363 770 BILXMSMA MS 364 1400 TLLHTNMA TN 365 109 FRHPALMA AL 368 1368 NWPTTMT TN 367 56 MOBLALSA AL 368 666 MONRLADS LA 369 668 MONRLAWM LA 370 57 MOBLALSE AL 371 404 GRTWKYMA KY 372 970 AHVLNCOT NC 373 1385 SHVLTNMA TN 374 780 BRNDMSES MS 375 1414 WNCHTNMA TN 378 240 LYHNFLOH FL 379 1374 PLSKTNMA TN 380		1.000	
30 MODEREN TN 362 1239 CHTGTNMV TN 363 1016 GLBONCAD NC 363 770 BILXMSMA MS 364 1400 TLLHTNMA TN 365 109 FRHPALMA AL 366 1368 NWPTTNMT TN 367 56 MOBLALSA AL 368 666 MONRLADS LA 369 668 MONRLAWM LA 370 57 MOBLALSE AL 371 404 GRTWKYMA KY 372 970 AHVLNCOT NC 373 1385 SHVLTNMA TN 376 1347 MSCTTNMT TN 377 1315 LNCYTNMA TN 378 240 LYHNFLOH FL 379 1374 PLSKTNMA TN 381 555 BTRGLAHR LA 382 <tr< td=""><td>527 WNCHKYMA</td><td>KY</td><td>360</td></tr<>	527 WNCHKYMA	KY	360
1235 CHINGIAM NC 363 1018 GLBONCAD NC 363 770 BILXMSMA MS 364 1400 TLLHTNMA TN 365 109 FRHPALMA AL 366 1368 NWPTTNMT TN 367 56 MOBLALSA AL 368 666 MONRLADS LA 369 668 MONRLADS LA 369 668 MONRLAWM LA 370 57 MOBLALSE AL 371 404 GRTWKYMA KY 372 970 AHVLNCOT NC 373 1385 SHVLTNMA TN 374 780 BRNDMSES MS 375 1414 WNCHTNMA TN 378 240 LYHNFLOH FL 379 1374 PLSKTNMA TN 381 555 BTRGLAHR LA 382 <t< td=""><td></td><td>and the second se</td><td></td></t<>		and the second se	
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970 AHVLNCOT NC 373 1385 SHVLTNMA TN 374 780 BRNDMSES MS 375 1414 WNCHTNMA TN 376 1347 MSCTTNMT TN 377 1315 LNCYTNMA TN 377 1315 LNCYTNMA TN 378 240 LYHNFLOH FL 379 1374 PLSKTNMA TN 380 1317 LRBGTNMA TN 380 1317 LRBGTNMA TN 381 555 BTRGLAHR LA 382 294 PACEFLPV FL 383 850 JCSNMSNR MS 384 1243 CHTGTNSE TN 385 204 HBSDFLMA FL 386 1319 LXTNTNMA TN 388 1249 CLTNTNMA TN 388 1249 CLTNTNMA TN 389	57 MOBLALSE	AL	
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1414 WNCHTNMA TN 376 1347 MSCTTNMT TN 377 1315 LNCYTNMA TN 378 240 LYHNFLOH FL 379 1374 PLSKTNMA TN 380 1317 LRBGTNMA TN 381 555 BTRGLAHR LA 382 294 PACEFLPV FL 383 850 JCSNMSNR MS 384 1243 CHTGTNSE TN 385 204 HBSDFLMA FL 386 1319 LXTNTNMA TN 388 1249 CLTNTNMA TN 388 <td>1385 SHVLTNMA</td> <td>TN</td> <td></td>	1385 SHVLTNMA	TN	
1347 MSCTTNMT TN 377 1315 LNCYTNMA TN 378 240 LYHNFLOH FL 379 1374 PLSKTNMA TN 380 1317 LRBGTNMA TN 381 555 BTRGLAHR LA 382 294 PACEFLPV FL 383 850 JCSNMSNR MS 384 1243 CHTGTNSE TN 385 204 HBSDFLMA FL 386 1319 LXTNTNMA TN 387 1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 <td>780 BRNDMSES</td> <td>MS</td> <td></td>	780 BRNDMSES	MS	
1315 LNCYTNMA TN 378 240 LYHNFLOH FL 379 1374 PLSKTNMA TN 380 1317 LRBGTNMA TN 380 1317 LRBGTNMA TN 381 555 BTRGLAHR LA 382 294 PACEFLPV FL 383 850 JCSNMSNR MS 384 1243 CHTGTNSE TN 385 204 HBSDFLMA FL 386 1319 LXTNTNMA TN 387 1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 388 1249 CLTNTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393	1414 WNCHTNMA	TN	376
240 LYHNFLOH FL 379 1374 PLSKTNMA TN 380 1317 LRBGTNMA TN 381 555 BTRGLAHR LA 382 294 PACEFLPV FL 383 850 JCSNMSNR MS 384 1243 CHTGTNSE TN 385 204 HBSDFLMA FL 386 1319 LXTNTNMA TN 386 1319 LXTNTNMA TN 386 1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 388 1249 CLTNTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCB1 NC 394	1347 MSCTTNMT	TN	377
1374 PLSKTNMA TN 380 1317 LRBGTNMA TN 381 555 BTRGLAHR LA 382 294 PACEFLPV FL 383 850 JCSNMSNR MS 384 1243 CHTGTNSE TN 385 204 HBSDFLMA FL 386 1319 LXTNTNMA TN 387 1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	1315 LNCYTNMA	TN	
1317 LRBGTNMA TN 381 555 BTRGLAHR LA 382 294 PACEFLPV FL 383 850 JCSNMSNR MS 384 1243 CHTGTNSE TN 385 204 HBSDFLMA FL 386 1319 LXTNTNMA TN 387 1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	240 LYHNFLOH	FL	379
555 BTRGLAHR LA 382 294 PACEFLPV FL 383 850 JCSNMSNR MS 384 1243 CHTGTNSE TN 385 204 HBSDFLMA FL 386 1319 LXTNTNMA TN 387 1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	1374 PLSKTNMA	TN	380
294 PACEFLPV FL 383 850 JCSNMSNR MS 384 1243 CHTGTNSE TN 385 204 HBSDFLMA FL 386 1319 LXTNTNMA TN 387 1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 388 1249 CLTNTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	1317 LRBGTNMA	TN	381
850 JCSNMSNR MS 384 1243 CHTGTNSE TN 385 204 HBSDFLMA FL 386 1319 LXTNTNMA TN 387 1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	555 BTRGLAHR	LA	382
1243 CHTGTNSE TN 385 204 HBSDFLMA FL 386 1319 LXTNTNMA TN 387 1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	294 PACEFLPV	FL	383
204 HBSDFLMA FL 386 1319 LXTNTNMA TN 387 1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	850 JCSNMSNR	MS	384
1319 LXTNTNMA TN 387 1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	1243 CHTGTNSE	TN	385
1343 MNCHTNMA TN 388 1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	204 HBSDFLMA	FL	386
1249 CLTNTNMA TN 389 322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	1319 LXTNTNMA	TN	387
322 STAGFLSH FL 390 1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	1343 MNCHTNMA	TN	388
1041 LENRNCHU NC 391 308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	1249 CLTNTNMA	TN	389
308 PNSCFLHC FL 392 1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	322 STAGFLSH	FL	390
1285 GTBGTNMT TN 393 968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	1041 LENRNCHU	NC	391
968 AHVLNCBI NC 394 1238 CHTGTNHT TN 395	308 PNSCFLHC	FL	392
1238 CHTGTNHT TN 395	1285 GTBGTNMT	TN	393
	968 AHVLNCBI	NC	394
304 PNCYFLCA FL 396	1238 CHTGTNHT	TN	395
	304 PNCYFLCA	FL	396

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Exhibit TGW-15 Page 25 of 25

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EXHIBIT TGW - 16

High Frequency Spectrum Network Element

3. High Frequency Spectrum Network Element

- 3.1 General
- 3.1.1 BellSouth shall provide CLEC-1 access to the high frequency portion of the local loop as an unbundled network element only where BellSouth is the voice service provider to the end user ("High Frequency Spectrum") at the rates set forth in Exhibit C. BellSouth shall provide CLEC-1 with the High Frequency Spectrum irrespective of whether BellSouth chooses to offer xDSL services on the loop.
- 3.1.2 The High Frequency Spectrum is defined as the frequency range above the voiceband on a copper loop facility carrying analog circuit-switched voiceband transmissions. Access to the High Frequency Spectrum is intended to allow CLEC-1 the ability to provide Digital Subscriber Line ("xDSL") data services to the end user for which BellSouth provides voice services. The High Frequency Spectrum shall be available for any version of xDSL presumed acceptable for deployment pursuant to 47 CFR Section 51.230, including, but not limited to, ADSL, HDSL, and any other xDSL technology that is presumed to be acceptable for deployment pursuant to FCC rules. BellSouth will continue to have access to the low frequency portion of the loop spectrum (from 300 Hertz to at least 3000 Hertz, and potentially up to 3400 Hertz, depending on equipment and facilities) for the purposes of providing voice service. CLEC-1 shall only use xDSL technology that is within the PSD mask parameters set forth in T1.413 or other applicable industry standards. CLEC-1 shall provision xDSL service on the High Frequency Spectrum in accordance with the applicable Technical Specifications and Standards.
- 3.1.3 The following loop requirements are necessary for CLEC-1 to be able to access the High Frequency Spectrum: an unconditioned, 2-wire copper loop. An unconditioned loop is a copper loop with no load coils, low-pass filters, range extenders, DAMLs, or similar devices and minimal bridged taps consistent with ANSI T1.413 and T1.601. BellSouth will provide CLEC-1 access to the Unbundled Loop Modification (Line Conditioning), in accordance with Section 2.2 of this Agreement. BellSouth is not required to condition a loop for access to the high frequency spectrum if conditioning of that loop significantly degrades BellSouth's voice service. If CLEC-1 requests that BellSouth condition a loop longer than 18,000 ft. and such conditioning significantly degrades the voice services on the loop, CLEC-1 shall pay for the loop to be restored to its original state.
- 3.1.4 CLEC-1's termination point is the point of termination for CLEC-1 on the toll main distributing frame in the central office ("Termination Point"). BellSouth will use jumpers to connect CLEC-1's connecting block to the splitter. The

splitter will route the High Frequency Spectrum on the circuit to CLEC-1's xDSL equipment in CLEC-1's collocation space.

- 3.1.5 CLEC-1 shall have access to the splitter for test purposes, irrespective of where the splitter is placed in the BellSouth premises.
- 3.2 Provisioning of High Frequency Spectrum and Splitter Space
- 3.2.1 BellSouth will provide CLEC-1 with access to the High Frequency Spectrum as follows:
- 3.2.1.1 BellSouth will install splitters within forty-two (42) calendar days of CLEC-1's submission of such order to the BellSouth Complex Resale Support Group; provided, however, that in the event BellSouth did not have reasonable notice that a particular central office was to have a splitter installed therein, the forty-two (42) day interval shall not apply. Collocation itself or an application for collocation will serve as reasonable notice.
- 3.2.1.2 Once a splitter is installed on behalf of CLEC-1 in a central office, CLEC-1 shall be entitled to order the High Frequency Spectrum on lines served out of that central office.
- 3.2.1.2.1 BellSouth will bill and CLEC-1 shall pay the SOMAN and SOMEC charges as described in Section 2.13 of this Agreement when CLEC-1 orders High Frequency Spectrum for end-user service.
- 3.2.1.3 BellSouth will select, purchase, install, and maintain a central office POTS splitter and provide CLEC-1 access to data ports on the splitter. At least 30 days before making a change in splitter suppliers, BellSouth will provide CLEC-1 with a carrier notification letter, informing CLEC-1 of change. CLEC-1 shall purchase ports on the splitter as set forth more fully below.
- 3.2.1.4 BellSouth will install the splitter in (i) a common area close to the CLEC-1 collocation area, if possible; or (ii) in a BellSouth relay rack as close to the CLEC-1 DS0 termination point as possible. For purposes of this section, a common area is defined as an area in the central office in which both Parties have access to a common test access point. BellSouth will cross-connect the splitter data ports to a specified CLEC-1 DS0 at such time that a CLEC-1 end user's service is established.
- 3.2.1.5 The High Frequency Spectrum shall only be available on loops on which BellSouth is also providing, and continues to provide, analog voice service directly to the end user. In the event the end-user terminates its BellSouth provided voice service for any reason, and CLEC-1 desires to continue providing xDSL service on such loop, CLEC-1 shall be required to purchase a full standalone loop unbundled network element. In the event BellSouth disconnects the

end-user's voice service pursuant to its tariffs or applicable law, and CLEC-1 desires to continue providing xDSL service on such loop, CLEC-1 shall be permitted to continue using the line by purchasing the full stand-alone loop unbundled network element. To the extent commercially practicable, BellSouth shall give CLEC-1 notice in a reasonable time prior to disconnect, which notice shall give CLEC-1 an adequate opportunity to notify BellSouth of its intent to purchase such loop. In those cases in which BellSouth no longer provides voice service to the end user and CLEC-1 purchases the full stand-alone loop, CLEC-1 may elect the type of loop it will purchase. CLEC-1 will pay the appropriate recurring and non-recurring rates for such loop as set forth in Exhibit C to this Attachment. In the event CLEC-1 purchases a voice grade loop, CLEC-1 acknowledges that such loop may not remain xDSL compatible.

- 3.2.1.6 Only one competitive local exchange carrier shall be permitted access to the High Frequency Spectrum of any particular loop.
- 3.3 Ordering
- 3.3.1 To order High Frequency Spectrum on a particular loop, CLEC-1 must have a DSLAM collocated in the central office that serves the end-user of such loop. CLEC-1 may order splitters in a central office once it has installed its Digital Subscriber Line Access Multiplexer ("DSLAM") in that central office. BellSouth will install these splitters within the interval provided in paragraph 3.2.1.1.
- 3.3.2 BellSouth will devise a splitter order form that allows CLEC-1 to order splitter ports in increments of 24 ports.
- 3.3.2.1 BellSouth will provide CLEC-1 the Local Service Request ("LSR") format to be used when ordering the High Frequency Spectrum.
- 3.3.3 BellSouth will provide access to the High Frequency Spectrum within the following target intervals: BellSouth will return a manual Firm Order Confirmation ("FOC") in no more than two (2) business days after receipt of a valid, error free manual LSR. When CLEC-1 submits an electronic LSR for High Frequency Spectrum, BellSouth will return a FOC in four (4) hours ninety-five percent (95%) of the time, or, for orders that do not flow-through, in two (2) business days. BellSouth will provide CLEC-1 with access to the High Frequency Spectrum at the following target intervals:
- 3.3.3.1 For 1-5 lines at the same address within three (3) business days from BellSouth's issuance of a FOC; 6-10 lines at same address within 5 business days from BellSouth's issuance of a FOC; and more than 10 lines at the same address is to be negotiated.
- 3.3.4 BellSouth will provide to CLEC-1 BellSouth's Loop Qualification System that BellSouth uses to qualify loops for its own ADSL offering as described below.

3.3.5 BellSouth will provide CLEC-1 access to the Preordering Loop Makeup (LMU), in accordance with Section 2.14 of this Agreement. BellSouth shall bill and CLEC-1 shall pay the rates for such services, as described in Exhibit C.

3.4 Maintenance and Repair

- 3.4.1 CLEC-1 shall have access, for test, repair, and maintenance purposes, to any loop as to which it has access to the High Frequency Spectrum. CLEC-1 may access the loop at the point where the combined voice and data signal exits the central office splitter.
- 3.4.2 BellSouth will be responsible for repairing voice services and the physical line between the network interface device at the customer's premises and the Termination Point of demarcation in the central office. CLEC-1. will be responsible for repairing data services. Each Party will be responsible for maintaining its own equipment.
- 3.4.3 CLEC-1 shall inform its end users to direct data problems to CLEC-1, unless both voice and data services are impaired, in which event the end users should call BellSouth.
- 3.4.4 Once a Party has isolated a trouble to the other Party's portion of the loop, the Party isolating the trouble shall notify the end user that the trouble is on the other Party's portion of the loop.
- 3.4.5 In the event CLEC-1's deployment of xDSL on the High Frequency Spectrum significantly degrades the performance of other advanced services or of BellSouth's voice service on the same loop, BellSouth shall notify CLEC-1 and allow twenty-four (24) hours to cure the trouble. If CLEC-1 fails to resolve the trouble, BellSouth may discontinue CLEC-1's access to the High Frequency Spectrum on such loop.

3.5 Rates

The prices that CLEC-1 shall pay to BellSouth for Network Elements and Other Services are set forth in Exhibit C to this Attachment. If CLEC-1 purchases a service(s) from a tariff, all terms and conditions and rates as set forth in such tariff shall apply.

3.6 Operational Support Systems (OSS)

The terms, conditions and rates for OSS are as set forth in Section 2.13 of this Attachment.

EXHIBIT TGW - 17

CO-Based Line Sharing Functional Block Diagram

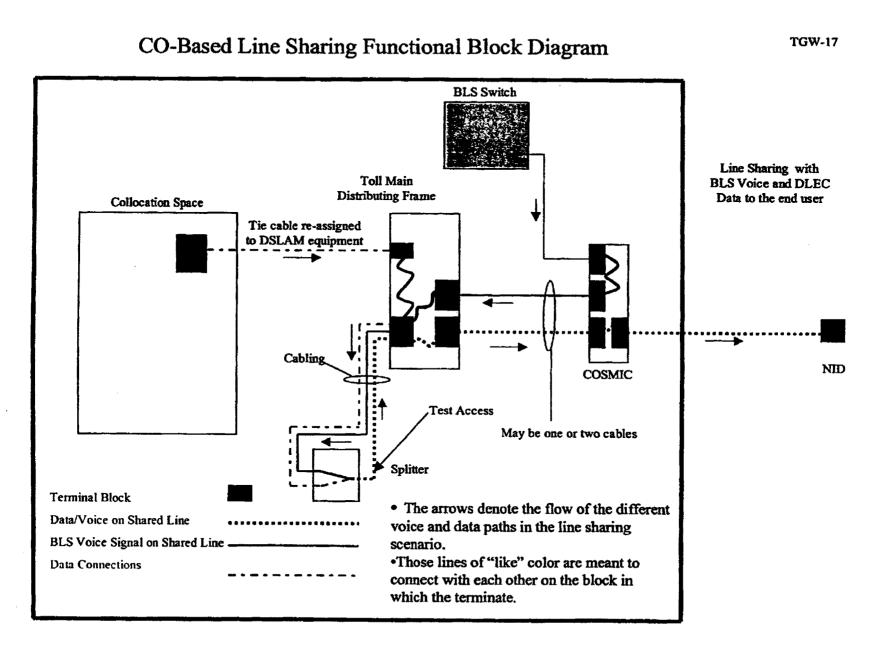
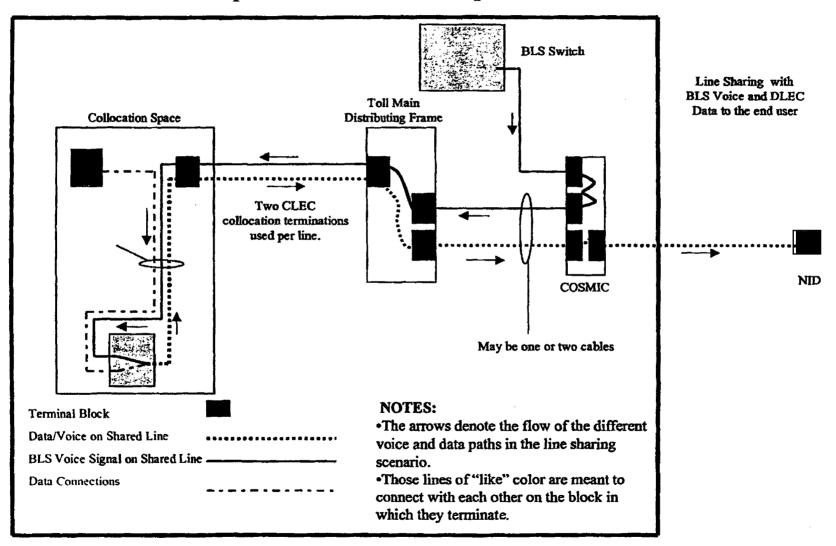


EXHIBIT TGW - 18

CO-Based Line Sharing Functional Block Diagram with Splitter Located in CLEC Space

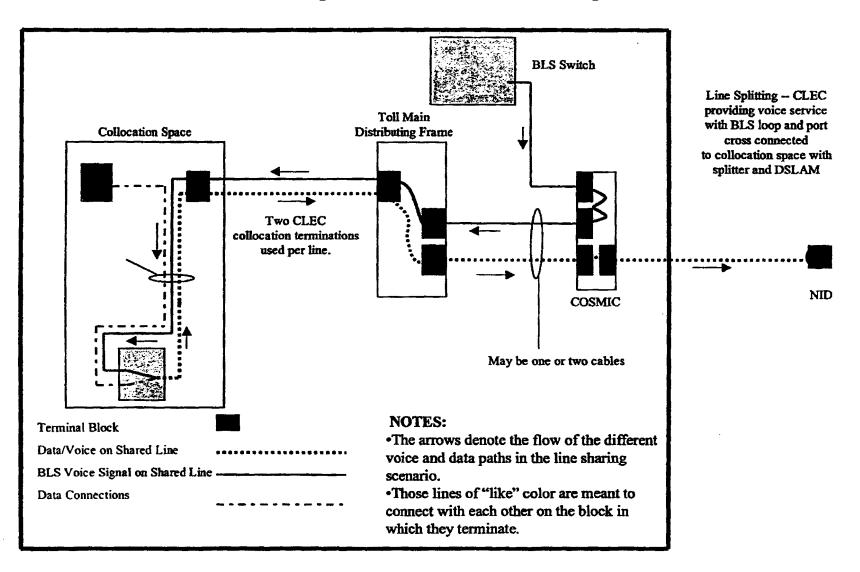
CO-Based Line Sharing Functional Block Diagram With Splitter Located in CLEC Space



TGW-18

EXHIBIT TGW – 19

CO-Based Line Splitting Functional Block Diagram



CO-Based Line Splitting Functional Block Diagram

1		BELLSOUTH TELECOMMUNICATIONS, INC.
2		DIRECT TESTIMONY OF DAVID P. SCOLLARD
3		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
4		DOCKET NO. 960786-TP
5		MAY 31, 2001
6		
7	Q.	PLEASE STATE YOUR NAME, ADDRESS, AND POSITION WITH
8		BELLSOUTH TELECOMMUNICATIONS, INC.
9		
10	A.	I am David P. Scollard, Room 28A1, 600 N. 19th St., Birmingham, AL 35203.
11		My current position is Manager, Wholesale Billing at BellSouth Billing, Inc., a
12		wholly owned subsidiary of BellSouth Telecommunications, Inc. In that role, I
13		am responsible for overseeing the implementation of various changes to
14		BellSouth's Customer Records Information System ("CRIS") and Carrier
15		Access Billing System ("CABS").
16		
17	Q.	PLEASE SUMMARIZE YOUR BACKGROUND AND EXPERIENCE.
18		
19	A.	I graduated from Auburn University with a Bachelor of Science Degree in
20		Mathematics in 1983. I began my career at BellSouth as a Systems Analyst
21		within the Information Technology Department with responsibility for
22		developing applications supporting the Finance organization. I have served in a
23		number of billing system design and billing operations roles within the billing
24		organization. Since I assumed my present responsibilities, I have overseen the
25		progress of a number of billing system revision projects such as the billing of

-1-

1		unbundled network elements ("UNEs"), as well as the development of billing
2		solutions in support of new products offered to end user customers. I am
-		familiar with the billing services provided by BellSouth Telecommunications
4		to local competitors, interexchange carriers and retail end user customers.
5		
6	Q.	HAVE YOU TESTIFIED PREVIOUSLY BEFORE ANY STATE PUBLIC
7		SERVICE COMMISSION? IF SO, BRIEFLY DESCRIBE THE SUBJECT
8		OF YOUR TESTIMONY.
9		
10	A.	I have testified before the state Public Service Commissions in Alabama,
11		Florida, Georgia, Kentucky, Louisiana, Mississippi, South Carolina, the
12		Tennessee Regulatory Authority, and the Utilities Commission in North
13		Carolina on issues regarding the capabilities of the systems used by BellSouth
14		to bill for services provided to retail customers, Interexchange Carriers (IXCs)
15		as well as Alternative Local Exchange Companies (ALECs).
16		
17	Q.	WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS
18		PROCEEDING?
19		
20	A.	The purpose of my testimony is to address the issues set forth by the Florida
21		Public Service Commission (the Commission) in this proceeding dealing with
22		the capabilities of the systems used by BellSouth to bill ALECs.
23		
24	Q.	IDENTIFY THE SYSTEMS BELLSOUTH USES TO PROVIDE BILLING
25		TO ALECS FOR SERVICES ORDERED FROM BELLSOUTH.

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-2-

2	A.	The systems BellSouth uses to provide bills to ALECs have no meaningful
3		differences from those used to provide bills to its retail and interexchange
4		access customers. The systems BellSouth uses to accumulate, rate and format
5		ALEC billing transactions vary depending on the services being ordered. If an
6		ALEC orders a service for resale, the service request is channeled to CRIS to
7		maintain a record for the ALEC of the services that BellSouth has provided.
8		Likewise, usage events (toll calls, local calls, vertical service activations that
9		are billed on a per use basis, etc.) associated with the resold services are also
10		sent through CRIS.
11		
12		For facilities-based ALECs, CRIS is used to maintain a record of service
13		requests and resulting billing transactions for unbundled switch ports and
14		unbundled loops (service level 1 loops). Service requests for all other UNEs
15		and interconnection services are channeled through CABS. Therefore, all of the
16		billing transactions related to all other UNEs and interconnection services are
17		accumulated in CABS for preparing bills to the ALEC.
18		
19		These two systems (CRIS and CABS) are the same systems used to bill
20		BellSouth retail customers and interexchange carriers for the services provided
21		by BellSouth. Regardless of which of the two systems are being used,
22		BellSouth performs the same billing processes to prepare an invoice for an
23		ALEC as it does for a retail customer.
24		

1

25 Q. GENERALLY, HOW DOES THE BILLING PROCESS WORK?

-3-

•		
2	A.	Any billing process is designed to perform two basic functions. First, there are
3		the daily processes that are performed to input customer transactions, edit them
4		and prepare them as much as possible for creation of the bill. The types of daily
5		transactions accumulated and processed in CRIS and CABS are quite
6		numerous but generally include service orders (which provide information
7		about customer order activity), switch recordings (which provide records of
8		billable call events), payments received from customers, and other
9		miscellaneous types of transactions such as adjustments for previously billed
10		amounts. Second, at the end of each bill period (generally each month) the
11		events for a given customer are extracted, formatted in a manner that is
12		expected by the customer and distributed either via some type of postal carrier
13		or sent electronically to the customer.
14		
15	Q.	HOW MANY ALECS DOES BELLSOUTH BILL EACH MONTH?
16		
17	A.	Exhibit DPS-1 provides a summary of the ALECs that currently have billing
18		accounts with BellSouth along with a total of the different types of bills that
19		BellSouth produces. In its nine-state region, BellSouth produces
20		approximately 5,500 bills each month for approximately 338 different ALECs
21		using the various billing options available to them. In Florida, BellSouth
22		produces 1,435 bills each month for approximately 182 ALECs operating in
23		the state.
24		
25	Issue	2: Does BellSouth currently provide interconnection in accordance with the

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requirements of Sections 251 (c) (2) and 252 (d) (1) of the Telecommunications Act 1 2 of 1996, pursuant to Section 271 (c) (2) (B) (I) and applicable rules promulgated by 3 the FCC? (d) Does BellSouth currently permit the use of a Percent Local Usage (PLU) 4 5 factor in conjunction with trunking? 6 7 DOES BELLSOUTH ALLOW FOR THE USE OF A PERCENT LOCAL Q. USAGE FACTOR (PLU) IN BILLING FOR INTERCONNECTION 8 9 **TRUNKING?** 10 11 A. Yes. BellSouth can and does bill ALECs for usage and other charges for an 12 ALEC's use of two-way trunks using the appropriate PLU factor as it does with 13 other types of trunks. The issue has been that the facility charges (monthly and 14 one time installation charges) for these trunks and facilities must be allocated 15 between both the ALEC and BellSouth because the traffic of both is sent across 16 the trunks. Currently, BellSouth handles this using a manual method in which 17 the full charge is billed to the ALEC and a subsequent credit is applied to 18 represent the fact that BellSouth is using a portion of the trunk. 19 20 At a future point in time when the process has the potential to become too 21 cumbersome, a mechanized means to calculate the percent usage for each 22 company and to allocate the charges based on that calculation will be created. 23 At the present time, given the number of accounts involved, the cost of making 24 this change is not warranted. BellSouth's current process is more than adequate 25 to address this issue. As a further safeguard, any adjustments relating to

-5-

1

inaccurate billing for two way trunking will be included in the invoice accuracy measures set forth by the Commission.

3

2

4 Issue 2: Does BellSouth currently provide interconnection in accordance with the
5 requirements of Sections 251 (c) (2) and 252 (d) (1) of the Telecommunications Act
6 of 1996, pursuant to Section 271 (c) (2) (B) (I) and applicable rules promulgated by
7 the FCC?

8 (e) Does BellSouth currently provide ALECs with meet point billing
9 data?

10

11 Q. WHAT IS MEET-POINT BILLING?

12

On occasion two local exchange companies will jointly provide a 13 A. telecommunications service to a third company. For example, suppose an 14 15 ALEC and an interexchange company are both interconnected with BellSouth 16 at an access tandem in Miami. If a customer of the IXC places a call to an end user of the ALEC then BellSouth and the ALEC have jointly provided 17 18 terminating access to the IXC. In this example BellSouth is providing the 19 tandem and perhaps some portion of interoffice transport and the ALEC is 20 providing the end office switching and perhaps some portion of the transport. 21 Meet-point billing is the set of guidelines that BellSouth and the ALEC will 22 use to bill the IXC for the portion of the access service that each has provided 23 to the IXC. These guidelines have been developed and are maintained by the 24 industry at the Ordering and Billing Forum (OBF) and covers such topics as

25

-6-

- which provider is to record for the calls, which provider is responsible for
 sending to the other the call records, etc.
- 3

4 Q. HOW IS MEET-POINT BILLING USAGE SENT BETWEEN CARRIERS?5

6 A. In the example stated above, BellSouth, as the tandem provider, would send to 7 the ALEC a call detail record the ALEC would use to bill the IXC. The ALEC 8 would need to select a vendor to act as its intermediary to collect from all of 9 the industry participants usage data that the ALEC needs to perform the meet-10 point billing functions. The company so selected as its intermediary is termed 11 the "Revenue Accounting Office (RAO) Host". Sometimes an ALEC chooses 12 BellSouth as its RAO Host and sometimes they do not. All local exchange 13 carriers (ILECs and ALECs alike) will send data bound for another local 14 exchange carrier via the RAO Host selected by that LEC.

15

16 Q. DOES BELLSOUTH ABIDE BY THE MEET POINT BILLING PROCESSES
17 DEVELOPED AT OBF AND PROVIDE ALECS WITH USAGE RECORDS
18 TO SUPPORT MEET POINT BILLING?

19

A. Yes. In April 2001, BellSouth provided over 134 million meet point billing
usage records to ALECs in the region either directly as an RAO Host company
or to ALECs through the RAO Host selected by those ALECs. BellSouth has
complied with, and will continue to abide by, the meet-point billing guidelines
maintained by OBF.

25

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Issue 6: Does BellSouth currently provide unbundled local transport on the trunk
 side of a wireline local exchange carrier switch from switching or other services,
 pursuant to Section 271 (c) (2) (B) (v) and applicable rules promulgated by the
 FCC?

5 (a) Does BellSouth currently provide billing for usage-sensitive UNEs?
6

7 Issue 7: Does BellSouth currently provide unbundled local switching from
8 transport, local loop transmission, or other services, pursuant to Section 271 (c) (2)
9 (B) (vi) and applicable rules promulgated by the FCC?

- 10 (a) Does BellSouth bill for unbundled local switching on a usage-sensitive
- 11

basis?

12

Q. CAN BELLSOUTH CURRENTLY PROVIDE BILLS TO ALECS FOR
UNBUNDLED SWITCHING, UNBUNDLED TRANSPORT AND OTHER
USAGE-BASED NETWORK ELEMENTS?

16

17 A. Yes. BellSouth began to bill ALECs for usage sensitive based UNEs as early as 18 August 1997. Thus, this concern should be alleviated. Since that time 19 enhancements have been made to improve the system's capabilities. The latest 20 change has been to implement the OBF UNE bill formats. A significant 21 number of the changes made to the bill formats deal with usage sensitive 22 charges. Exhibit DPS-2 of my testimony provides a copy of one of the CABS-23 Formatted UNE bills provided to an ALEC in Florida in November, 2000. The 24 usage section of this bill reflects the quantities, prices and charges for usage 25 sensitive elements such as unbundled local switching, unbundled shared

-8-

interoffice transport, unbundled operator services, unbundled directory
assistance, unbundled 800 data base queries, etc. This bill was mechanically
generated from the billing transactions collected from BellSouth's switching
equipment for calls originating from or terminating to the ALEC's unbundled
switch ports.

- 6
- 7 Q. HOW ARE USAGE-BASED TRANSACTIONS PROCESSED FOR ALECS?8

As calls are routed through BellSouth's network, usage records are created in 9 Α. the switches and other database elements incorporated into the network. 10 Several times each day, these usage records are transmitted from the network to 11 a collection system that is used by the billing system. The collection system 12 then sends the records to a process that identifies where each record should be 13 sent for billing the customer. If the record is associated with an access call or a 14 15 call associated with an ALEC's interconnection service, it is sent to CABS. If the record is associated with a resale service then it is sent to CRIS for 16 handling. If the record is associated with an unbundled switch port then it is 17 sent to the UNE usage billing process (referred to as the BellSouth Industrial 18 19 Billing System or BIBS). Switch port usage is neither billed on a call-by-call detail as is done for end users in CRIS nor summarized in the way that access 20 21 usage is billed in CABS. Therefore, BIBS was developed to meet the unique 22 billing requirements for UNE usage.

23

Once in CRIS, CABS or BIBS, the usage records are edited, rated and stored
until the close of the customer's billing period. In addition, each day, the usage

1		records for those ALECs which have elected to receive daily usage information
2		via the Optional Daily Usage File (ODUF) or the Access Daily Usage File
3		(ADUF) are copied and included on the files and transmitted to the ALEC.
4		Finally, at the appropriate time, the edited and rated usage is placed on the
5		customers invoice in the format that the customer has selected.
6		
7	Q.	WOULD YOU PLEASE SUMMARIZE YOUR TESTIMONY?
8		
9	A.	Yes. BellSouth provides ALECs with bills for usage-based UNEs such as
10		unbundled local switching and unbundled shared transport. In addition
11		BellSouth provides accurate and complete billing for local trunking including
12		the use of PLUs for trunks and facilities. Lastly, BellSouth provides usage
13		records so that ALECs can bill pursuant to the meet point billing guidelines
14		developed by the industry.
15		
16	Q.	DOES THIS CONCLUDE YOUR TESTIMONY?
17		
18	A.	Yes.
19		
20		
21		
22		
23		
24		
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DPS-1 BILL FORMAT CHOICES PROVIDED TO ALECS BY BELLSOUTH

Bill Format Choices Provided to ALECs by BellSouth

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Bill Type	Number	Florida ALECs	Number	ALECs
	Provided in	Receiving Bill	Provided	Receiving Bill
	Florida	Туре	Region Wide	Type Region Wide
Resale CLUB Paper	383	131	1180	279
Diskette Analyzer Bill (DAB)	210	68	664	141
Resale Electronic Data Interexchange Transmitted Bill (EDI)	19	4	53	5
Resale Mag Tape Bill Format	64	19	188	26
Resale CABS Format	8	4	28	4
Unbundled Switched Port Bill ("J" Bill)	111	30	351	54
CABS Interconnection Bills	640	63	3056	113
Total	1435	N/A	5520	N/A

DPS-2

BILLING PRINTOUTS (CABS FORMATTED UNE BILLS)

PAGES 1-155

)				
		BILL NO	305		
		BILL DATE	NOV 22,2000		
	BELLSOUTH TELECOHHUNICAT RETURN DOCUMENT	LONS, INC.		and the second second	
	BILLING INQUIRIES CALL (8		MAIL GROUP	-	
	BALANCE DUE - PLEASE INDI	CATE AMOUNT REMITTED FOR EAS ANOUNT DUE	H INVOICE	•	
	DUE BY DEC 15	6,295.07			
	PAST DUE	6,780.42 6,295.07	·•		
	TOTAL AMOUNT DUE To ensure proper cred please complete and	IT AND AVOID POSSIBLE LATE A	PAYMENT PENALTIES, YOUR PAYMENT TO:		
ł		BELLSOUTH PRO - CLUB P. O. BOX 33009 Charlotte, NC			
		28243-0001		· .	
	PLEASE SEND	ALL OTHER CORRESPONDENCE TO ICS - LOCAL BILLING - BHM 600 N. 19TH STREET - 12C1	•		
		BIRNINGHAM, AL 35203			
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BILLING INQUIRIES CALL (880) 773-4967 ICSC OFC BS BELLSOUTH SWITCHED ACCESS SERVICE UNBUNDLED LINE PORT # # # BALANCE DUE INFORMATION # # # TOTAL AMOUNT OF LAST BILL 6,780. PAYMENTS APPLIED - SEE DETAIL 3,585. ADJUSTMENTS APPLIED - SEE DETAIL 0.00 TOTAL BALANCE DUE - SEE DETAIL 0.00 TOTAL BALANCE DUE - SEE DETAIL 0.00 TOTAL - FLORIDA - 5191 * * # DETAIL OF CURRENT CHARGES * * * MONTHLY ACCESS CHARGES 55.1 MONTHLY ACCESS CHARGES 55.1 MONTHLY ACCESS CHARGES 1,688.47 OTHER CHARGES - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 1,255.27 TAXES - SEE DETAIL 0.0		BILL NO INVOICE NO BILL DATE	305 3050 NOV 22,2000 PAGE 1
BILLING INQUIRIES CALL (BB0) 773-4967 ICSC OFC BS BELLSOUTH SWITCHED ACCESS SERVICE UNBUNDLED LINE PORT # # # BALANCE DUE INFORMATION # # # TOTAL AMOUNT OF LAST BILL 6,780.0 PAYMENTS APPLIED - SEE DETAIL 3,585. ADJUSTMENTS APPLIED - SEE DETAIL 0.00 TOTAL BALANCE DUE - SEE DETAIL 0.00 TOTAL BALANCE DUE - SEE DETAIL 0.00 TOTAL BALANCE DUE - SEE DETAIL 0.00 TOTAL - FLORIDA - 5191 * * # DETAIL OF CURRENT CHARGES * * * TOTAL - FLORIDA - 5191 1,688.47 MONTHLY ACCESS CHARGES FROM NOV 22 THRU DEC 21 LOCAL 1,688.47 OTHER CHARGES AND CREDITS - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 1,255.27 TAXES - SEE DETAIL 0.0			
UNBUNDLED LINE PORT * * * BALANCE DUE INFORMATION * * * TOTAL AMOUNT OF LAST BILL 6,780. PAYMENTS APPLIED - SEE DETAIL 3,585. ADJUSTMENTS APPLIED - SEE DETAIL 0.00 0.00 TOTAL BALANCE DUE - SEE DETAIL 0.00 0.00 * * * DETAIL OF CURRENT CHARGES * * * TOTAL - FLORIDA - 5191 LATE PAYMENT CHARGES 55.0 MONTHLY ACCESS CHARGES FROM NOV 22 THRU DEC 21 1,688.47 OTHER CHARGES AND CREDITS - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 1,255.27 TAXES - SEE DETAIL 0.00		BILLING INQUIRIES CALL (800) 773-4967	FOR TELCO USE: ICSC OFC BS01
TOTAL AMOUNT OF LAST BILL 6,780. PAYMENTS APPLIED - SEE DETAIL 3,585. ADJUSTMENTS APPLIED - SEE DETAIL 0.00 TOTAL BALANCE DUE - SEE DETAIL 0.00 TOTAL BALANCE DUE - SEE DETAIL 0.00 *** DETAIL OF CURRENT CHARGES *** 3,194.0 TOTAL - FLORIDA - 5191 *** LATE PAYMENT CHARGES 55.1 MONTHLY ACCESS CHARGES 55.1 MONTHLY ACCESS CHARGES 1,688.47 OTHER CHARGES AND CREDITS - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 1,255.27 TAXES - SEE DETAIL 0.0		BELLSOUTH SWITCHED ACCESS SERVICE UNBUNDLED LINE PORT	
PAYMENTS APPLIED - SEE DETAIL 3,585. ADJUSTMENTS APPLIED - SEE DETAIL 0.00 TOTAL BALANCE DUE - SEE DETAIL 0.00 *** DETAIL OF CURRENT CHARGES *** TOTAL - FLORIDA - 5191 LATE PAYMENT CHARGES FROM NOW 22 THRU DEC 21 LOCAL OTHER CHARGES AND CREDITS - SEE DETAIL LOCAL USAGE CHARGES - SEE DETAIL LOCAL		* * * BALANCE DUE INFORMATION * * *	· ·.
ADJUSTMENTS APPLIED - SEE DETAIL LOCAL TOTAL BALANCE DUE - SEE DETAIL	·		6,780.42
* * * DETAIL OF CURRENT CHARGES * * * TOTAL - FLORIDA - 5191 LATE PAYNENT CHARGES 55.0 MONTHLY ACCESS CHARGES FROM NOV 22 THRU DEC 21 LOCAL 1,688.47 OTHER CHARGES AND CREDITS - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 1,255.27 TAXES - SEE DETAIL 0.0		ADJUSTMENTS APPLIED - SEE DETAIL	3,585.74CR 0.00
TOTAL - FLORIDA - 5191 LATE PAYNENT CHARGES MONTHLY ACCESS CHARGES FROM NOV 22 THRU DEC 21 LOCAL OTHER CHARGES AND CREDITS - SEE DETAIL LOCAL USAGE CHARGES - SEE DETAIL LOCAL LOCAL 101.54 101.54 101.54 LOCAL 1,255.27 TAXES - SEE DETAIL LOCAL			3,194.68
LATE PAYMENT CHARGES 55.0 MONTHLY ACCESS CHARGES FROM NOV 22 THRU DEC 21 LOCAL 1,688.47 OTHER CHARGES AND CREDITS - SEE DETAIL LOCAL 101.54 USAGE CHARGES - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 1,255.27 TAXES - SEE DETAIL 0.0			
55.1 MONTHLY ACCESS CHARGES FROM NOV 22 THRU DEC 21 LOCAL USAGE CHARGES AND CREDITS - SEE DETAIL LOCAL USAGE CHARGES - SEE DETAIL LOCAL TAXES - SEE DETAIL TOTAL CHARGES & NUE DE DED 14 M		IUIAL - FLORIDA - 5191	
FROM NOV 22 THRU DEC 21 LOCAL 1,688.47 OTHER CHARGES AND CREDITS - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 101.54 USAGE CHARGES - SEE DETAIL 1,255.27 TAXES - SEE DETAIL 0.0		LATE PAYNENT CHARGES	55.04
LOCAL 101.54 USAGE CHARGES - SEE DETAIL 1,255.27 LOCAL 1,255.27 TAXES - SEE DETAIL 0.0		FROM NOV 22 THRU DEC 21	1,688.47
LOCAL 1,255.27 TAXES - SEE DETAIL 0.0	· · · ·		101.54
TOTAL CHROPENT CHARGES & NUT DV DES 11	•	LOCAL 1,255.2	1,255.27
TOTAL CURRENT CHARGES * DUE BY DEC 15 *	`. -	TAXES - SEE DETAIL	9.07
		TOTAL CURRENT CHARGES * DUE BY DEC 15 *	3,100.39
TOTAL AMOUNT DUE 6,295.0	••	TOTAL AMOUNT DUE	6,295.07

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* * * D)	ETAIL OF PAYMENTS APPLIED * * *	
INVOICE NO 30509		3,585.74CR
TOTAL PAYMENTS APPLIED		3,585.74CR
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D	30509		×		,	
		Andrea Andrea				- - -

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BILL NO 305 Q INVOICE NO 305Q9 BILL DATE NOV 2272000 PAGE 3

* * * DETAIL OF BALANCE DUE * * *

INVOICE NO 305	
PREVIOUS BALANCE PAYMENTS APPLIED	6,780.42 3,585.74CR
BALANCE DUE	3,194.68
TOTAL BALANCE DUE	3,194.68

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BILL NO INVOICE NO BILL DATE	305 3050 NOV 22,2000 PAGE 4
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- 12	• * * DETAIL OF LATE PAYMENT CHARGES * * *	
	LATE PAYMENT CHARGE BASE AMOUNT	3,194.68
÷.		
	LOCAL 09/22/00-10/21/00 - 29 DAYS 3,194.68	55.94
	TOTAL LATE PAYMENT CHARGE FOR BASE AMOUNT	55.84

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BILL NO 305 INVOICE NO 3059 BILL DATE NOV 22,2000 PAGE 5

* * * DETAIL OF OTHER CHARGES AND CREDITS * * * BIP AMOUNT OCT 29 B0 SO CQD5JK97 PON 40000720 TELEPHONE NUMBER BIN3 CHARGE FOR MISCELLANEDDS ACTIVITY ONE-TIME CHARGE FOR SOMAN 1 CLEC SERVICE REQUEST PROCESSING, PER MANUAL L PON 400007205 NET EFFECT OF SC CQD5JK97 PON 400007205 PER MONTH FRACTIONAL ONE-TIME TOTAL - FL - EC 5191 19.99 1 BILLED AMOUNT 0.00 0.00 19.99 19.99 OCT 31 00 SO CO2M63W5 TELEPHONE MUHBER BIN3 CHARGE FOR MISCELLANEOUS ACTIVITY -CHARGE FOR MISCELLANEOUS ACTIVITY -CHARGE FOR NISCELLANEOUS ACTIVITY -ONE-TIME CHARGE FOR SOMEC 1 CLEC SERVICE REQUEST PROCESSING, PER MECHANIZ ED LSR LDCAL - FL - EC 5191 1.49 ED LSR LOCAL - FL - EC 5191 CHARGE FOR HISCELLANEOUS ACTIVITY -ONE-TIME CHARGE FOR 1 UNBUNDLED NETWORK ELEMENT 2-WIRE SUBSEQUENT A CTIVITY CHARGE LOCAL - FL - EC 5191 CHARGE FOR MISCELLANEOUS ACTIVITY -CHARGE FOR CHANGING YOUR LONG DISTANCE COMPANY TO FRONTIER LOCAL - FL - EC 5191 3.50 USAS2 10.00 CHARGE FOR MISCELLANEOUS ACTIVITY -CHARGE FOR MISCELLANEOUS ACTIVITY -CHARGE FOR CHANGING YOUR LONG DISTANCE COMPANY TO FRONTER 1.49 CHARGE FOR MISCELLANEOUS ACTIVITY -CHARGE FOR MISCELLANEOUS ACTIVITY -CHARGE FOR CHANGING YOUR LONG DISTANCE COMPANY TO FRONTIER 1.49

 CHARGE FOR MISCELLANEOUS ACTIVITY

 CHARGE FOR CHANGING YOUR LONG DISTANCE

 COMPANY TO FRONTIER

 LOCAL - FL - EC 5191

 LOCAL - FL - EC 5191

 PER MONTH

 FRACTIONAL

 ONE-TIME

 BILLED AMOUNT

 TOTAL - FL - EC 5191

 0.00

 0.00

 19.46

 OCT 25 00
 SO CQ3Q2362

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BILL NO INVOICE NO	305
BILL DATE	NOV ZLYZUGU -

* * * DETAIL OF OTHER CHARGES AND CREDITS * * * BIP AMOUNT CHARGE FOR MISCELLANEOUS ACTIVITY -DNE-TIME CHARGE FOR 1 CLEC SERVICE REQUEST PROCESSING, PER MECHANIZ ED LSR ED LSR LOCAL - FL - EC 5191 CHARGE FOR MISCELLANEOUS ACTIVITY -ONE-TIME CHARGE FOR USAS2 I UNBUNULED NETWORK ELEMENT 2-WIRE SUBSEQUENT A CTIVITY CHARGE LOCAL - FL - EC 5191 NET EFFECT OF SO CQ3Q2362 PON DHM00142 PER MONTH TOTAL - FL - EC 5191 0.00 0.00 DCA 3.50 10.00 1 BILLED AMOUNT 13.50 DCT 26 00 SO DQF16GT6 TELEPHONE NUMBER B CREDIT FOR SERVICE DISCONNECTED FROM DCT 2/ 00 THRU NOV 21 00 (\$19,35/NO) LOCAL - FL - EC 5191 16.76CR NET EFFECT OF SO DOF16GT6 PER MONTH FRACTIONAL 1 PER MONTH F TOTAL FL - EC 5191 0.00 ONE-TIME BILLED AMOUNT 16.76CR 0.00 16.76CR OCT 17 00 SO DO128F44 TELEPHONE MUMBER A ADJUSTMENT TO LOVER MINIHUM CHARGE FUR LOCAL SERVICE FROM SEP 20 00 THRU NOV 21 00 (\$19.35/MO) LOCAL - FL - EC 5191 20.63CR NET EFFECT OF SO DO128F44 PER HONTH FRACTIONAL TOTAL ~ FL - EC 5191 1 ONE-TIME BILLED ANOUNT 00.0 20.63CR 20.63CR 0.00 NOV 10 00 SO DO20PPY9 TELEPHONE NUMBER B CREDIT FOR SERVICE DISCONNECTED FROM NOV 12 00 THRU NOV 21 00 (\$19.35/MO) LOCAL - FL - EC 5191 CREDIT FOR SERVICE DISCONNECTED FROM NOV 11 00 THRU NOV 21 00 (\$19.35/MO) LOCAL - FL - EC 5191 7.89CR

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7.09CR

			BILL NO INVOICE NO BILL DATE	305 0 305092 NOV 22,2000 PAGE 7		
		* * * DETAIL OF OTHER CHA	RGES AND CREDITS	* * * <u>Amount</u>		
	1	NET EFFECT OF SO DQ2QPPV9 PER MONTH FRACTIONAL TOTAL - FL - EC 5191 0.00 14.18CR	ONE-TIME 0.00	BILLED AMOUNT 14.18CR		
		OCT 27 00 SO DQ508961 TELEPHONE NUMBER B CREDIT FOR SERVICE DISCURRECTED F 00 THRU NOV 21 00 (\$19.35/HO) 00 THRU NOV 21 00 (\$19.35/HO)				
		LDCAL - FL - EC 5191 DISCONNECT CHARGE FOR SOMEC 1 CLEC SERVICE REQUEST PROCE ED LSR		16,13CR UZ		
	1.	LOCAL - FL - EC 5191 NET EFFECT OF SO DQ50R961 PER MONTH FRACTIONAL TOTAL - FL - EC 5191 0.00 16.13CR	ONE-TIME	3.50 BILLED AMOUNT		
		0.00 16.13CR OCT 30 00 SO DQ86B235 TELEPHONE NUMBER H CREDIT FOR SERVICE DISCOMMENTED F 00 THRU NOV 21 00 (\$17,00/MO)	3.50 Ron BCT 31	12.63CR		
	· .	LOCAL - FL - EC 5191 Credit for service disconnected F 00 thru Nov 21 00 (\$19.35/MO)		12.47CR	."	
		LOCAL - FL - EC 5191 CREDIT FOR SERVICE DISCONNECTED F 00 THRU NOV 21 00 (\$19.35/MO) LOCAL - FL - EC 5191	ROM OCT 31	14.20CR 14.20CR		
	•	CREDIT FOR SERVICE DISCONNECTED F 00 THRU NOV 21 00 (\$19,35/MO) LOCAL - FL - EC 5191 CREDIT FOR SERVICE DISCONNECTED F		14.20CR		
		00 THRU NOV 21 00 (\$19.35/MO) LOCAL - FL - EC 5191 CREDIT FOR SERVICE DISCONNECTED F 00 THRU NOV 21 00 (\$19.35/MD)	RON OCT 31	14.20CR		
		LOCAL - FL - EC 5191 CREDIT FOR SERVICE DISCONNECTED F 00 THRU NOV 21 00 (\$19.35/HO) LOCAL - FL - EC 5191	ROM OCT 31	14.20CR 14.20CR	· · · · · ·	
100 No. 10	• • •	CREDIT FOR SERVICE DISCONNECTED F 00 THRU NOV 21 00 (\$19,35/MG) LOCAL - FL - EC 5191		14.20CR		

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14.20CR

	BILL NO INVGICE BILL D	NO 3050926668-00327
* * * DETAIL OF	OTHER CHARGES AND CRE	DITS * * * BIP AMOUNT
TELEPHONE NUMBER IN CREDIT FOR SERVICE DISC Credit for service disc 00 Thru Nov 21 00 (\$19.	ONNECTED FROM OCT 31	
LOCAL - FL CREDIT FOR SERVICE DISC	- EC 5191 CONNECTED FROM OCT 31	14.20CR
CREDIT FOR SERVICE DISC	- EC 5191 CONNECTED FROM OCT 31	14,20CR
CREDIT FOR SERVICE DISC	- EC 5191 CONNECTED FROM OCT 31	14.20CR
	35/MD) ~ EC 5191	14.20CR
1 NET EFFECT OF SO DQ86B235 PER MONTH TOTAL - FL + EC 5191	NAL ONE-TIME	BILLED AMOUNT
	18.67CR D.(168.670
OCT 23 00 SO NOI EVIMA TELEPHONE NUMBER DEFINIT CHARGE FOR NEW SERVICE NOV 21 00		DL0209
	PORTABILITY LINE CHAN	RGE - LI
	- EC 5191 FROM OCT 24 00 THRU	0,34
UEPBL I UNBUNDLED EXCHAN LOCAL - FL CHARGE FOR NEW SERVICE	IGE PORT, BUSINESS, MEA - EC 5191 From Oct 24 00 Thru	LSURED 1.93
	EC 5191	16.43
CHARGE FOR MISCELLANEOU ONE-TIME CHARGE FOR USACC 1 UNBUNDLED NETWOR HANGE		RSION C
	- EC 5191 IS ACTIVITY -	10.00
VITE FAIL CIMEDE FUR		

305 992-6668 668

μCR 57CR

0.34 1.93

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		BILL NO INVOICE NO BILL DATE	305 992-6668 66 3059926668-0032 NOV 22,2000 Page 9
. •	* * * DETAIL OF OTHER CHARGES	AND CREDITS BIP	* * * Amount
۰.	TELEPHONE NUMBER BIN305 SONEC 1 CLEC SERVICE REQUEST PROCESSIN ED LSR	G, PER MECHAN	2
1	NET FEFECT OF SO NOTENTHA PON HOL	6209	3.50
	PER MONTH FRACTIONAL ON TOTAL - FL - EC 5191	e-time	BILLED AMOUNT
	0.00 18.70	13.50	32.20
,	SEP 15 00 SO NQ3YPYP2 TELEPHONE NUMBER B CHARGE FOR NEW SERVICE FROM SEP 16 00 NOV 21 00 LNPCK 1 FCC LOCAL NUMBER PORTABILITY L NF		
·	LOCAL - FL - EC 5191 CHARGE FOR NEW SERVICE FROM SEP 16 00 NOV 21 00 SMBBX 1 NEMORYCALL ANSWERING SERVICE,		0.77 M
. `	IN OF USE, EACH MAILBOX, PER M LOCAL - FL - EC 5191 CHARGE FOR NEW SERVICE FROM SEP 16 00 Nov 21 00	onth Thru	17.49
	UEPBL I UNBUNDLED EXCHANGE PORT, BUSIN LOCAL - FL - EC 5191 CHARGE FOR NEW SERVICE FROM SEP 16 00 NOV 21 00		4.40
	UEPLX 1 UNBUNDLED LOOP VOICE GRADE LOCAL - FL - EC 5191 CHARGE FOR MISCELLANEOUS ACTIVITY - ONE-TIME CHARGE FOR	·	37.40
	USACC 1 UNBUNDLED NETWORK ELEMENT 2-WI HANGE LOCAL - FL - EC 5191 CHARGE FOR MISCELLANEOUS ACTIVITY - ONE-TIME CHARGE FOR		10.00
	SOMEC 1 CLEC SERVICE REQUEST PROCESSIN ED LSR LOCAL - FL - EC 5191	O, FER MELHAN	
1	NET EFFECT OF SO NQ3YRXP2 PON BSC PER MONTH FRACTIONAL ON	16 38 E-TIME	3.50 BILLED AMOUNT
	TOTAL - FL - EC 5191 8.83 60.06	13.50	73.56
	OCT 23 00 SO NOSK61D1 TELEPHONE NUMBER B		

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	IÑVOICE NO 30 BILL <u>DAT</u> E NO	5 992-6668 668 59926668-00327 V 22,2000 GE 10			· · · · · ·
	* * * DETAIL OF OTHER CHARGES AND CREDITS * * \underline{BIP}	* ANOUNT	· · · ·	x *	
NOV 21 (UEPLX 1 1	FOR NEW SERVICE FROM OCT 24 00 THRU 80 Insundled Loop Voice Grade	16.43			 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 - 1911 -
USACC 10	LOCAL - FL - EC 5191 FOR MISCELLANEOUS ACTIVITY - E CHARGE FOR INBUNDLED NETWORK ELEMENT 2-WIRE CONVERSION C LANGE	10.43			
CHARGE I NOV 21	LOCAL - FL - EC 5191 FOR NEW SERVICE FROM OCT 24 00 THRU DD ECC LOCAL NUMBER ROBIARTITY LINE CHARGE - 11	10.89			
	NE LOCAL - FL - EC 5191 For New Service From Oct 24 D0 Thru	0.34	-		
UEPBL 1	UNBUNDLED EXCHANGE PORT, BUSINESS, MEASURED Local - FL - EC 5191 For New Service From Oct 24 00 Thru	1.93			
UEPLX I CHARGE ONE-TIM	NBUNDLED LOOP VOICE GRADE Local - FL - EC 5191 For Niscellaneous activity - E charge for Inbundled Network Element 2-Wire conversion c	16.43			
CHARGE I NOV 21	HANGE Local - FL - EC 5191 For New Service from Oct 24 bo thru Do	10.00			· · ·
CHARGE I	FCC LOCAL NUMBER PORTABILITY LINE CHARGE - LI Ne Local - FL - EC 5191 FDR NEW SERVICE FROM OCT 24 00 THRU	0.34			
	JNBUNDLED EXCHANGE PORT, BUSINESS, MEASURED Local - FL - EC 5191 For New Service From Oct 24 00 Thru	1.93	· · · · ·		
LNPCX 1	FCC LOCAL NUMBER PORTABILITY LINE CHARGE - LI NE Local - FL - EC 5191	0.34			

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 BILL NO
 305 092~6668 668

 INVOICE NO
 3050926668-00327

 BILL DATE
 NOV 22,2000

 PAGE
 11

* * * DETAIL OF OTHER CHARGES AND CREDITS * * * BIP TELEPHONE NUMBER CHARGE FOR NEW SERVICE FROM OCT 24 00 THRO NOV 21 00 NOV 21 00 1 UNBUNDLED EXCHANGE PORT, BUSINESS, MEASURED LOCAL - FL - EC 5191 CHARGE FOR NEW SERVICE FROM OCT 24 00 THRU NOV 21 00 1 UNBUNDLED LOOP VOICE GRADE LOCAL - FL - EC 5191 CHARGE FOR MISCELLANEOUS ACTIVITY -ONE-TIME CHARGE FOR UEPBL UEPLX ONE-TIME CHARGE FOR USACC 1 UNBUNDLED NETWORK ELEMENT 2-WIRE CONVERSION C HANGE LOCAL - FL - EC 5191 CHARGE FOR NEW SERVICE FROM OCT 24 00 THRU NOV 21 00 1 FCC LOCAL NUMBER PORTABILITY LINE CHARGE - LI LNPCX NÊ CHARGE FOR NEW SERVICE FROM OCT 24 00 THRU CHARGE FOR NEW SERVICE FROM OCT 24 00 THRU UEPBL CHARGE FOR NEW SERVICE FROM OUT ALL NOV 21 00 1 UNBUNDLED LOOP VOICE GRADE LOCAL - FL - EC 5191 CHARGE FOR MISCELLANEOUS ACTIVITY -ONE-TIME CHARGE FOR 1 UNBUNDLED NETWORK ELEMENT 2-WIRE CONVERSION C UEPLX USACC HANGE CHARGE FOR NEW SERVICE FROM OCT 24 00 THRU NOV 21 00 1 FCC LOCAL NUMBER PORTABILITY LINE CHARGE - LI LNPCX CHARGE FOR NEW SERVICE FROM OCT 24 00 THRU LOCAL - FL - EC 5191 CHARGE FOR NEW SERVICE FROM OCT 24 00 THRU NOV 21 00 1 UNBUNDLED EXCHANGE PORT, BUSINESS, MEASURED LOCAL - FL - EC 5191 CHARGE FOR NEW SERVICE FROM OCT 24 00 THRU NOV 21 00 UEPBL

AMOUNT 1.93 16.43 1.93 16.43 10.00 0.34

1.93

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	BTIL NO	505 992-6668 668		
	INVOICE NO BILL DATE	5059926668-00327 NOV 22,2000 PAGE 12		
	* * * DETAIL OF OTHER CHARGES AND CREDITS * : BIP	* * <u>Amount</u>		
	NUMBER 1 1 UNBUNDLED LOOP VOICE GRADE LOCAL - FL - EC 5191 5E FOR NISCELLANEOUS ACTIVITY -	16.43		
CHIE-T	ITHE CHARGE FOR 1 UNBUNDLED NETWORK ELEMENT 2-WIRE CONVERSION C Hange	10.00		
NOV 2	LOCAL - FL - EC 5191 SE FOR NEW SERVICE FROM OCT 24 00 THRU 21 00 1 UNBUNDLED LOOP VOICE GRADE			
645 1	LOCAL - FL - EC 5191 GE FOR MISCELLANEOUS ACTIVITY - FIME CHARGE FOR 1 UNBUNDLED NETWORK ELEMENT 2-WIRE CONVERSION C	16.43		
CHAR	HANGE LOCAL - FL - EC 5191 SE FOR NEH SERVICE FROM OCT 24 08 THRU	10.00		
LNPCX	Î FCC LOCAL NUMBER PORTABILITY LINE CHARGE - LI Ne Local - FL - EC 5191 Ge for new service from Oct 24 08 Thru	0.34		
UEPBL CHAR	21 00 1 UNBUNDLED EXCHANGE PORT, BUSINESS, MEASURED LOCAL - FL - EC 5191 SE FOR MISCELLANEOUS ACTIVITY - TTME CHARGE FOR	1.93	· .	
1 NET EFFECT	I CLEC SERVICE REQUEST PROCESSING, PER MECHANIZ ED LSR LOCAL - FL - EC 5191 OF SO NQ5K61D1 TH FRACTIONAL ONE-TIME	3.50 BILLED AMOUNT		. .
TOTAL -	FL - EC 5191 0.00 112.20 63.50	175.70		
TOTAL OTHE TOTAL -	R CHARGES AND CREDITS FL - EC 5191	101.54	· · ·	

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÷.;•	1	D B	NVOICE NO 3050 TLI DATE NOV PAGE	22,2080			
	* * * * * * * * * * LOCAL USA SEP :	GE FOR OFFICE HINST 22 DO THRU OCT 21 (FLHMDSO * ¥ × ×) D9		,		
	RATE CATEGORY	QUANTITY	RATE	AMOUNT	•		
· · · · ·	UNBUNDLED TRANSPORT SHARED LOCAL UNDETERMINED ROUTING ORIGINATING MIATFLADDSO - 029 MILES MIANFLERDS1 - 028 MILES MIANFLYIDS6 - 028 MILES		C 5191 .000012000 .000012890	. 81 . 81 . 91			
	ALLESS	33	.908012800	.01			
·	TANDEM Originating Miamflgrost - 028 Miles		.000012000	.01			
	TERMINATING MIAMFLGR057 - 028 MILES		.000912080	.01			
••	TOTAL UT SHRD TRANS	117	-	.05			
••••	UNBUNDLED TRANSPORT FACILIT. LOCAL UNDETERMINED ROUTING						
	ORIGINATING	85	.000500000	.04			
	TOTAL UT F TERM ED-EO	85		.04			an a
	UNBUNDLED TRANSPORT FACILIT ACCESS TANDEM						
· · . · .	ORIGINATING TERMINATING	26 5	.000500000 .000500000	.01			
	TOTAL UT F TERM EO-TAN	31		S0.		. <u>.</u> .	and the second
	UNBUNDLED TRANSPORT TANDEM	SWITCHING - FL - E	C 5191			· · ·	
· · · ·	UNDETERMINED ROUTING ORIGINATING ACCESS	85	.000298800	.02		· .	
	TANDEM ORIGINATING TERMINATING	26	.000290000 .000290000	.61 .D1			
	i i i i i i i i i i i i i i i i i i i						

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	BILL NO INVOICE NO BILL DATE	305 305 305 NOV 22,2000 PAGE 14
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		BILL	DATE NOV PAGE	22,2000 14			
****	* * * * LOCAL USAGI Sép 2	FOR OFFICE HMSTFLH 2 00 THRU OCT 21 00	MDS0 * * * * *	****		·	••••••••••••••••••••••••••••••••••••••
RATE CATE		QUANTITY	RATE	AMOUNT			
TOTAL UT TOTAL UNE	TANDEM SW WNDLED TRANSPORT CH	116 ARGE - FL - EC 5191	-	.04 .15		· .	
UNBUNDLED UNBUNDLED LOCAL	END OFFICE - FL - Local Switching - :	EC 5191 Switching Functional	ITY	: • *	••••••		· · · · · · · · ·
ORIGIN EQ SIN	IATING IGLE NETWORK ITRASWITCH			· · · · · · · · · · · · · · · · · · ·			
I I I	NITIAL DDITIONAL TERSWITCH NITIAL	32	.817500000 .005000000 .017500000	. 95 . 01 . 12		·	

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UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING	- EC 5191 SWITCHING FUNCTION	LITY	· · · ·		· · · ·	·· · · · · ·		
EO SINGLE NETWORK INTRASWITCH		• · · · ·				'	· : ·	
INITIAL ADDITIONAL INTERSWITCH	3 2	.817500008 .005080000	. 85 . 01			·.	4	n na stranger en en
INITIAL ADDITIONAL	7 20	.017500000	.12	· . · ·		·		n a la compositiva da la compositiva d La compositiva da la c
MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL	15 44	.017500808 .005000000	.26 .22	•				
TEO SINGLE NETWORK INTERSWITCH INITIAL	7	.017500000	12					an a
ADDITIONAL MULTIPLE NETWORK INTERSWITCH	20	.805000000	.12 .10			•		
INITIAL ADDITIONAL ACCESS DRIGINATING	15 44	.017500000 .005000000	.26 .22		· · · ·		-	
ED MULTIPLE NETWORK INTERSWITCH						<u>;</u> .		
INITIAL ADDITIONAL TERMINATING	14 15	.017500000 .005000000	- 25 - 08	* <u>-</u> *			÷	and the second second
TEO MULTIPLE NETWORK INTERSWITCH INITIAL	12	. 017500000	21			·····		
ADDITIONAL	12	.005000000	.21 .04	• • • •		<u>.</u>		

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* * * * * * * * * LOCAL USAGE SEP 22 RATE CATECODY	E FOR OFFICE HHSTFLHHDSØ 2 00 THRU OCT 21 00	¥ × ¥	*	××	×)	E ¥ ¥
CONTLOOR!	OUANTITY	DATE				AMOUN
TOTAL ULS - SWITCH FUNC TOTAL UNBUNDLED END OFFICE CH	ARGES - FL - EC 5191	• • •	•			2.04 2.04

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	RATE CATEGORY	QUANTITY	RATE	AHOUNT	
•.	UNBUNDLED TRANSPORT SHARED	TRANSPORT - Et - Et	F E191		
•	LOCAL		- 3171		
	UNDETERMINED ROUTING				
	ORIGINATING				
	NIANFLCADSO - 021 MILE		.000012000	.01	
	MIAMFLGRDS1 - 028 MILE		.000012080	18	
	MIANFLHLDSO - 031 MILE		.000012000	.01	
	MIAMFLKEDSO - 625 MILE		.000012000	. 01	
	NIANFLPLDSB - 025 MILE	S 10	.000012000	.01	
	MIANFLRRDSD - 021 MILE		.000012000	. 01.	
	MIAMFLWDDS0 - 015 MILE	5 2	.000012000	.01	
	MIANFLYIDS6 - 028 MILE	S 245	.000012000	. 98	
1.1	MIATFLADDS0 - 029 MILE		.000012000	.16	
. * *	NDADFLGGCM4 - 038 HILE		.000012000	.01	
	PRRNFLHADSO - 014 MILE		.000012000	.01	
	HMSTFLNARSO - 005 MILE		.000012000	. 01	
	MIANFLAEDSO - 025 MILE		.000012000	.01	
	MIAMFLAFCHI - 028 MILE	5 9	.000012000	. 01	•
	TANDEN				
	ORIGINATING		• • • • • • • • • •		
	MIAMFLAFCH1 - 028 MILE	S	-000012000	.01	
	MIAHFLYJCHO - 040 MILE	S 3	.000012000	.01	
	MIAMFLYJCM5 - 040 HILE	స్త్రాల్లో సిల్లాలో సిల్లాలు సిల్లలు సిల్లల	.000012000	.01	
	NDADFLGGCH5 - 038 MILE	స్త్ర ప్ర	.800012808	.01	
	PRENFLAECH1 - 014 MILE		.000012000	.01	
	NDADFLGG03T - 038 MILE	S I	.000012000	.01	
	ACCESS				
	ORIGINATING				
			44447 4444		
	NIAMFLGROST - 028 HILE		.060012000	.01	
	NDADFLGG01T - 038 MILE	a 23	.008012009	.01	
	TERMINATING MIANFLGR05T - 028 MILE	· ·	*****		
			.000012000	. 01	
	NDADFLGG01T - 038 MILE	S 6	.000012000	.01	A
	TOTAL UT SHRD TRANS	1,429		.63	
	UNBUNDLED TRANSPORT FACILI	TTES TERNTNATION ED	TO 60	A1	
.'	LUCAL		10 LO - JL - EC 31	71	•
	UNDETERMINED ROUTING				
	ORIGINATING	1,356	.000500000	. 68	
	TANDEM ORIGINATING	12	.000500000		
				.01	

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BILL NO INVOICE NO BILL DATE	305 092 3050926 Nov 22,2000 PAGE 17
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RATE CATEGORY	QUANTITY	RATE	AMO
TOTAL UT F TERM EO-EO	1,368		·
UNBUNDLED TRANSPORT FACILITIE	S TERMINATION EO	TO TANDEM - FL - E	C 5191
LOCAL			
ORIGINATING	1	. 000500000	
ACCESS	-		-
TANDEM		.600500060	
ORIGINATING TERMINATING	10	.000500000	
L'ANDERN L'AND			-
TOTAL UT F TERN EO-TAN	51	~**	
		*101	
UNBUNDLED TRANSPORT TANDEM SH	HICHING - FL - EL	2131	
UNDETERMINED ROUTING			
UKTOTHA (TMO	1,356	.000298600	•
TANDEM ORIGINATING	13	.000290000	
ACCESS	10		•
TANDEN			
ORIGINATING Terminating	40 10	.000290000	
ICN/11/011/10	10		•
TOTAL UT TANDEM SW	1,419		
TOTAL UNBUNDLED TRANSPORT CHA	RGE - FL - EC 519	1	1.
	· .	-	
UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S		A) 77V	
LOCAL	101101110 1 0101201		
ORIGINATING			
EO SINGLE NETWORK	· ·		
INTRASUITCH			
INITIAL	1	.017580000	•
ADDITIONAL INTERSWITCH	34	.085000000	•
This and arrive A A	66	.017500000	1.
	591	.005000000	ž.
ADDITIONAL			-
INITIAL ADDITIONAL HULTIPLE NETWORK	- e		
ADDITIONAL HULTIPLE NETWORK INTERSHITCH INTERSHITAL	115	.017500000	2.

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RATE CATEGORY TEO	QUANTITY	RATE	AMOUNT
SINGLE NETWORK			
INTERSWITCH INITIAL	65	.017500000	1.14
ADDITIONAL	591	. 995900000	2.96
NULTIPLE NETWORK INTERSWITCH			
INITIAL	105	.017500800	1.84
ADDITIONAL	597	.005000000	2.99
ACCESS			
ORIGINATING			
HULTIPLE NETWORK			
INTERSWITCH	1		
INITIAL ADDITIONAL	22 50	.017500000	.39
TERMINATING	30		.25
TED			
HULTIPLE NETWORK INTERSWITCH		. *	
INITIAL	60	.017500000	1.05
ADDITIONAL	79	.905800000	.40
TOTAL ULS - SWITCH FUNC	3,025		21.21
TOTAL UNBUNDLED END OFFICE C	HARGES - FL - EC 5	191	21.21
TOTAL LOCAL USAGE CHARGES FO	P OFFICE MASTEL MAD	¢n	25.18

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BILL NO 305 00 INVOICE NO 305092 BILL DATE NOV 22,2000 PAGE 19

	RATE CATEGORY	QUANTITY	RATE	AMOUN
	UNBUNDLED TRANSPORT SHARED TRANS ACCESS TANDEM	PORT - FL - EC	5191	
	ORIGINATING NDADFLGG01T - 012 MILES	2	.900012000	. 01
	TOTAL UT SHED TRANS	2		.01
	UNBUNDLED TRANSPORT FACILITIES T	ERMINATION EO	TO TANDEN - FL - E	C 5191
	TANDEM ORIGINATING	2	. 490560808	.01
	TOTAL UT F TERN EO-TAN	2		.01
	UNBUNDLED TRANSPORT TANDEM SWITC ACCESS	HING - FL - EC	5191	
	TANDEM	. 2	.000290000	.01
	TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CHARGE	2 - FL - EC 519		.01 .03
	UNBUNDLED END OFFICE - FL ~ EC UNBUNDLED LOCAL SWITCHING - SWIT ACCESS ORIGINATING ED	5191 TCHING FUNCTION	ALITY	·
	HULTIPLE NETWORK INTERSWITCH INITIAL	2	. 017590000	.84
۰.	TOTAL ULS - SWITCH FUNC TOTAL UNBUNDLED END OFFICE CHAR	2		.04

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	RATE CATEGORY	QUANTITY	RATE	ANOUNT
•	UNBUNDLED TRANSPORT SHARED TRANS ACCESS TANDEH ORIGINATING	SPORT - FL - EC	5191	
: •	NDADFLOGOIT - 012 HILES	1	.000012000	. 91
	TOTAL UT SHRD TRANS	1		.01
	UNBUNDLED TRANSPORT FACILITIES 1 ACCESS TANDEM	TERMINATION ED	TO TANDEM - FL - E	C 5191
·	ORIGINATING	1	.000500000	.01
	TOTAL UT F TERN ED-TAN	1		.01
. '	UNBUNDLED TRANSPORT TANDEM SWITC	CHING - FL - EC	5191	
	TANDEM Driginating	1	.088290808	.91
	TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CHARGE	E - FL - EC 519	 L	.81 .03
	UNBUNDLED END OFFICE - FL - EC UNBUNDLED LOCAL SWITCHING - SWIT ACCESS DRIGINATING ED		ALITY	
	MULTIPLE NETWORK INTERSWITCH INITIAL	1	.017500000	.02
· .	INTITEL	. –		

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	DETERMINED RO LIGINATING LIGANFLERDSI - LIAMFLERDSO - LIAMFLERDSO - LIAMFLERDSO - LIAMFLERDSO - LIAMFLERDSO - LIAMFLAGSSO - LIAMFLAEDSO -	2011ING 006 MILES 005 MILES 007 MILES 004 MILES 004 MILES 004 MILES 004 MILES 005 MILES 005 MILES		FL - EC 1 8 10 12 1 7 1 1 23	.006012000 .00012000 .00012000 .00012000 .00012000 .00012000 .000012000 .000012000	.01 .01 .01 .01 .01 .01
UNI OF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DETERMINED RO LIGINATING LIGANFLERDSI - LIAMFLERDSO - LIAMFLERDSO - LIAMFLERDSO - LIAMFLERDSO - LIAMFLERDSO - LIAMFLAGSSO - LIAMFLAEDSO -	006 MILES 001 MILES 005 MILES 014 MILES 014 MILES 004 MILES 014 MILES 014 MILES 005 MILES 005 MILES	· · · ·		.009012000 .000012000 .000012000 .00012000 .000012000 .000012000 .000012000	.01 .01 .01 .01 .01 .01
	TIGINATING UIAMFLGRDSI IIAMFLPBSBE IIAMFLPBSBE IIAMFLRDSO IIAMFLRDSO IIAMFLAGDSO TRANFLGGDSO IIAMFLAEDSO IIAMFLBRDSO IIAMFLBRDSO IDEM IIGINATING	006 MILES 001 MILES 005 MILES 014 MILES 014 MILES 004 MILES 014 MILES 014 MILES 005 MILES 005 MILES	, , , , , , , , , ,		.009012000 .000012000 .000012000 .00012000 .000012000 .000012000 .000012000	.01 .01 .01 .01 .01 .01
	IIAMFLGRDSI - IIAMFLPB88E - IIAMFLPDS0 - IIAMFLRDS0 - IIAMFLWDDS0 - IIANFLWRDS0 - IIANFLWRDS0 - IIANFLMADS0 - IIAMFLAL63E - IIAMFLAL63E - IIAMFLBRDS0 - IDEM IIGINATING	 001 MILES 005 MILES 007 MILES 014 MILES 009 MILES 014 MILES 005 MILES 005 MILES 			.009012000 .000012000 .000012000 .00012000 .000012000 .000012000 .000012000	.01 .01 .01 .01 .01 .01
t t t TAN OF	IIAMFLPBSBE ~ IIAMFLPLDS0 - IIAMFLRRDS0 - IIAMFLWRDS0 - IIANFLWRDS0 - IIANFLWRDS0 - IIAMFLAGS0 - IIAMFLALGSE - IIAMFLALGSE - IIAMFLALGSE - IIAMFLARDS0 - IDEM IIGINATING	 001 MILES 005 MILES 007 MILES 014 MILES 009 MILES 014 MILES 005 MILES 005 MILES 	· · · · ·		.009012000 .000012000 .000012000 .00012000 .000012000 .000012000 .000012000	.01 .01 .01 .01 .01 .01
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IIAMFLPLDS0 - IIAMFLWDDS0 - IIANFLWDDS0 - IIANFLWGDS0 - IIANFLWGDS0 - RRNFLMADS0 - IIAMFLAEDS0 - IIAMFLAEDS0 - LIAMFLBRDS0 - DEM IIGINATING	- 005 MILES - 007 MILES - 014 MILES - 004 MILES - 009 MILES - 014 MILES - 015 MILES - 005 MILES	· · · · ·		.000012000 .000012000 .000012000 .000012000 .000012000 .000012000	.01 .01 .01 .01 .01 .01
t t t t t t t t t t t t t t t t t	IIAMFLRRDS0 - IIAMFLWDDS0 - IIANFLWRDS0 - IIAQFL06DS0 - IRRNFLMADS0 - IIAMFLAL63E - IIAMFLAL63E - IIAMFLAL63E - IIAMFLAL63E - IIAMFLAL63E - IIAMFLAL63E - IIAMFLAL63E -	007 MILES 014 MILES 004 MILES 009 MILES 014 MILES 005 MILES 003 MILES	· · · .	10 1 2 1 7 1	.000012000 .000012000 .000012000 .000012000 .000012000	.01 .01 .01 .01 .01 .01
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IIAMFLWDDSO - IIANFLWKDSO - IIANFLMADSO - IIAMFLAEDSO - IIAMFLAEDSO - IIAMFLAEDSO - IIAMFLBRDSO - IIAMFLBRDSO - IDEM IJGINATING	- 014 MILES - 004 MILES - 009 NILES - 014 MILES - 005 MILES - 003 MILES	· · · .	121711	.000012000 .000012000 .000012000 .000012000	.01 .01 .01 .01 .01
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ITANFLWKDSÖ – ITAOFLÖGDSÖ – 'RRNFLMADSÖ – ITAMFLAEDSÖ – ITAMFLALGSE – ITAMFLBRDSÖ – IDEM ITGINATING	- 004 MILES - 009 NILES - 014 MILES - 005 MILES - 003 MILES - 003 MILES		21711	.000012000 .000012000 .000012000	.01
TAN OF	ITAQFL06DS0 - 'RRNFLMADS0 - Itamflaeds0 - Itamflaeds0 - Itamflbrds0 - Itamflbrds0 - Itamflbrds0 - Itamflbrds0 - Itamflbrds0 -	- 009 NILES - 014 MILES - 005 MILES - 003 MILES		1 7 1 1	.000012000	.01
TÁN OF	PRRNFLMADSO - IIAMFLAEDSO ~ IIAMFLAL63E - IIAMFLBRDSO - IDEM RIGINATING	• 014 MILES • 005 MILES • 003 MILES		711	.000012000	.01
TAN	IIAMFLAEDSÓ ~ IIAMFLAL63E - IIAMFLBRDSO - IDEM IIGINATING	005 MILES		1	.000012000	
tan Ur	IIAMFLAL63E - IIAMFLBRDS0 - IDEM LIGINATING	003 MILES		ĩ		. 01
tan Ur	IIAMFLAL63E - IIAMFLBRDS0 - IDEM LIGINATING	003 MILES			.000012000	.01
TAN OF	LIAMFLBRDSO - IDEM LIGINATING			2	.000012080	. อา
TĂN QR	IDEM LIGINATING			2	.000012000	. 01
0F	IGINATING			-	TOPOSTLOVO	. • 1
		012 MILES		17	.000012000	67
	DADFLGG83T -			13	.800012089	.01
ACCE		ATS UTLES		1	.0400TS000	. 01
	DEM .					
	IGINATING		· · · ·		,	
	DADFLGG01T -	010 HT CO	· · · ·	1.03		
		ATS MILES		181	.00012000	. 83
	RMINATING	A14 HT. 54				
	IDADFLGG01T -	OIS MILES		22	.000012000	.01
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TOTAL	UT SHRD TRA	MC .		254		
		u1.5		4.27		.17
UNBUN	DLED TRANSPO	RT FACILITIE	ES TERMINA	TION ED 3	TO EO - FL - EC 51	ดา
LOÇA	L					
UNE	ETERMINED RO	UTING				
	RIGINATING			32	. 800508000	. 82
	DEM			-		
C	RIGINATING			13	. \$09580090	. 81
				20		. 01
TOTAL	UT F TERM E	0-E0		45		.03
10,00110						
LOCA	I I I I I I I I I I I I I I I I I I I	KI FACTUIT	IERMINA	TON ED	TO TANDEM - FL - E	C 5191
	DEM					
	RIGINATING			1	.000560000	
ACCE	CC TOTIOLITIG	•		1 .	.044264460	. 01
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		* LOCAL US Sep	AGE FOR OFF 22 00 THRU	ICE MIAM Oct 21	FLAPDSC ¥ ¥ ¥ 00	******	¥.,	е . 		n an W
F .	RATE CATEGORY TERMINATING	i	QUA	ANTITY 22	RATE . 00050000	0 AMI	DUNT .01			
1	TOTAL UT F TERM	EO-TAN		204						
t,			SWITCHING	- FL - E	C 5191					
· · · ·	UNIGINATING TANDEM			32	.00029000	o .	.01			
	ACCESS	· · ·	at al anna an a	14	. 00029000	0	. 81		· · ·	
· · ·	ORIGINATING	· · · ·		181 22	.00029000		.05 .01	an Martin da se		an a
I T	OTAL UT TANDEM	SW TRANSPORT	CHARGE - FL	249 - EC 519	91		. 98	· · · ·	· · · · ·	
	MOUNDLED LUCAL	FFICE - FL SWITCHING	- EC 5191 - SWITCHING	FUNCTION	NALTTY		,			
	ORIGINATING	•							· .	
	INTRASWI	TCH .		*	47 75 44 84					
	ADDITIO	NAL FCH		3	.00500000		.02			
	ADDITION NULTIPLE N	VAL ETWORK		17 9	.01750009 .00500000		.30 .05			
	INITIAL ADDITION TEO	MAL		17	.017500001 .00500000		07 09	• •		
• •••	INITIAL ADDITION MULTIPLE NE	IAL TWORK	· .	16	.017500001 .005000000		28 05	n an ann ann an Airtean An Airtean		an a
e de e en de e	INTERSWIT INITIAL ADDITION			2	.017500000 .005000000		04 03			ip da susti investi in s
		RATE CATEGORY TERMIMATING TOTAL UT F TERM UNBUNDLED TRANS LOCAL UNDETERMIMED ORIGINATING TANDEM ORIGINATING ACCESS TANDEM ORIGINATING TERMIMATING TOTAL UT TANDEM TOTAL UN TANDEM TOTAL UNBUNDLED END OD UNBUNDLED LOCAL LOCAL ORIGINATING EO SINGLE NE INTERSWIT INITIAL ADDITION MULTIPLE NE INTERSWIT INITIAL ADDITION TEO SINGLE NE	RATE CATEGORY TERMINATING TOTAL UT F TERM EO-TAN UNBUNDLED TRANSPORT TANDEM LOCAL UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING ACCESS TANDEM ORIGINATING TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING LOCAL ORIGINATING EO SINGLE METWORK INTRASWITCH INITIAL ADDITIONAL MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL TEO SINGLE NETWORK INTERSWITCH INITIAL ADDITIONAL TEO SINGLE NETWORK INTERSWITCH INITIAL ADDITIONAL MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL MULTIPLE NETWORK	TOTAL UT F TERM EO-TAN UNBUNDLED TRANSPORT TANDEM SWITCHING LOCAL UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TANDEM ORIGINATING TANDEM ORIGINATING TERMINATING TOTAL UT TANDEM SW TOTAL UNBUNDLED FRANSPORT CHARGE - FL UNBUNDLED END OFFICE - FL - EC 5191 UNBUNDLED LOCAL SWITCHING - SWITCHING LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL MULTIPLE NETWORK INTERSWITCH INTITAL ADDITIONAL HULTIPLE NETWORK INTERSWITCH INTITAL ADDITIONAL HULTIPLE NETWORK INTERSWITCH INTITAL ADDITIONAL	************************************	# * * * * * * * * * * * * * * * * * * *	INVOICE NO NOV 22,2000 PAGE 22 ***********************************	Invoice mo 3050922 ********* LOCAL USAGE FOR OFFICE MIAMFLAPDS0 ********* RATE CATEGORY QUANTITY RATE AMOUNT RATE CATEGORY QUANTITY RATE AMOUNT TOTAL UT F TERM E0-TAN 204 .81 UNDETERMINATING 204 .81 UNDETERMINED ROUTINE 204 .81 UNDETERMINED ROUTINE 32 00029000 .01 UNDETERMINED ROUTINE 32 00029000 .01 UNDETERMINED ROUTINE 32 00029000 .01 ORIGINATING 14 .000290000 .01 ORIGINATING 181 .000290000 .01 ITANDEM 22 .000290000 .01 ORIGINATING 181 .000290000 .01 OTAL UT TANDEM SM 22 .000290000 .01 IOTAL UT TANDEM SM 22 .000290000 .01 IOTAL UT TANDEM SM 249 .59 .59 UNBUNDLED END OFFICE - FL - EC 5191 .59 .59 UNBUNDLED END OFFICE - SWITCHING FUNCTIONALITY .001 .02 INTERSWITCH 3 .0017500000 .02 INTERSWITCH 3 .00500000 .05	INVOICE NO BUL DATE DOS 222 ************************************	INVOICE MO 3050926 XXXXXXXXXXX 3050926 XXXXXXXXXXX SEP 22 00 THAMFLAPDS0 X X X X X X X X X SATE CATEGORY QUANTITY SATE CATEGORY QUANTITY TOTAL UT F TERM E0-TAN 204 UMBUNDLED TRANSPORT TANDEM SMITCHING - FL - EC 5191 UCAL FRINKD ROUTING UNBUNDLED TRANSPORT TANDEM SMITCHING - FL - EC 5191 UCAL FRINKD ROUTING UNERTATING 14 UNERTATING 14 ONICETATING 14 OB0220080 01 ONICETATING 131 UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 UNBUNDLED END OFFICE - FL - EC

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INVOICE NO BILL DATE	305092 NOV 22,2008 PAGE 23				:	

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	RATE CATEGORY ACCESS	QU	JANTITY	RATE	AMO
: - '	ORIGINATING		·	•	
er îs	MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL TERMINATING TEO		103 127	.017500000 .085006000	1
	MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL		58 24	.017500000 .00500000	1.
- - 	TOTAL ULS ~ SWITCH FUNC TOTAL UNBUNDLED END OFFI	CE CHARGES -	398 FL - EC 5	191	4.

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* * * * * * * * * LOCAL US/ OCT RATE CATEGORY	AGE FOR OFFICE MIANFL 22 00 THRU NOV 21 00 QUANTITY			· · · · ·	
UNBUNDLED TRANSPORT SHARED			AHOUNT		
LOCAL UNDETERMINED ROUTING ORIGINATING				•	
FTLDFL92DS0 - 012 NILES HNSTFLHNDS0 - 027 NILES MIANFLACCMD - 006 MILES	Š 6 S 1	.990912999 .090012909 .000012908	.01 .01 .01		
MIANFLAEDSO - 005 MILES Mianflafcm1 - 007 Miles Mianflal63E - 003 Miles Mianfla635E - 006 Miles	\$1 \$1 \$3	.000012000 .000012000 .000012000 .000012000	.01 .01 .01 .01	·.' ·	
MIAMFLBRDS0 - 009 MILES MIAMFLCADS0 - 007 MILES NIAMFLDADS0 - 007 MILES MIAMFLFLDS0 - 005 MILES	s 43 s 9 s 3	.000012000 .000012000 .000012000 .000012000	.01 .01 .01 .01		
MIANFLHLDS0 ~ 006 MILE: MIANFLHE32E - 004 MILE: MIANFLNDDS0 - 009 MILE: MIANFLOL68E - 007 MILE:	S 1 S 2 S 6	.000012000 .000012000 .000012000 .000012000	.01 .01 .01 .01 .01		
MIANFLPB88E - 001 MILES HIAMFLPLDS0 - 005 MILES MIANFLRRDS0 - 007 MILES MIANFLSODS0 - 011 MILES	5 <u>154</u> 5 2 5 1	.000812000 .000012000 .000012000 .000012000	.01 .01 .01 .01		
MIAMFLWDDS0 ~ 014 MILES MIAMFLYJCMS ~ 019 MILES MIANFLPVDS0 ~ 005 MILES MIANFLWKDS0 ~ 004 MILES	S 3 S 4 S 30	.000012000 .000012000 .000012000 .000012000	.01 .01 .01 .01		
MIANFLYIDS6 ~ 007 MILES MIAPFLYODS0 ~ 002 MILES MIAQFL06DS0 ~ 009 MILES NDADFLBRDS0 ~ 010 MILES	5 5 5 11 5 1	.000012000 .000012000 .000012000 .000012000	.01 .01 .01 .01		
NDADFLGGDS0 - 012 MILES NDADFLGGIXD - 012 MILES Prrnflmads0 - 014 Miles Cocyflidds1 - 014 Miles Fildflwads1 - 024 Miles	5 15 5 32 5 4	.000012000 .000012000 .000012000 .000012000	.01 .01 .01 .01		
TANDEM ORIGINATING FTLDFLFTCM1 - 025 MILES FTLDFLFTCM1 - 025 MILES	5 4	.000012000 .000012000 .000012000	.01 .01		and the second second
MIAMFLAFCHI - 007 MILES MIAMFLYJCH5 - 019 MILES NDADFLGGCH4 - 012 MILES NDADFLGGCH5 - 012 MILES	5 12 5 5 5 4	.000012000 .000012000 .000012000 .000012000	.01 .01 .01 .01 .01		
NDADFLGGOIT - 012 MILES OJUSFLTLCM1 - 015 MILES	s 2	.000012000 .000012000	.01		

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* * * * * * * * * ± DCAL USAGE QCT 22	FOR OFFICE MIAMP	LAPDSO × × × ×	*****
RATE CATEGORY	QUANTITY	RATE	AHOUN
PRRNFLÄECM1 – 013 NILES MIANFLDADS0 – 007 NILES	16	.000012000	
MLAMPLDADS0 - 007 MILES	1	.900912000	. 01
NDADF1GG03T - 012 MILES Access Tandem	2	.000612080	.01
ORIGINATING	•		
NDADFLGGOIT - 012 MILES TERMINATING	1,620	.000012000	.23
NDADFLGG01T - 012 HILES NDADFLGG04T - 012 HILES	102	.000012000	.01
INNER CORPAN - OTS MILES	· · 1	.000012000	.01
TOTAL UT SHRD TRANS	2,284		.68
INBUNDLED TRANSPORT FACILITIES LOCAL UNDETERMINED ROUTING	TERMINATION EO	TO EO - FL - EC	5191
ORIGINATING TANDEM	463	.000598000	.23
ORIGINATING	72	.000500000	. 04
OTAL UT F TERN EO-EO	535		.27
NBUNBLED TRANSPORT FACILITIES LOCAL TANDEM	TERMINATION ED	TO TANDEM - FL	- EC 5191
ORIGINATING ACCESS TANDEM	3	.000500008	.01
ORIGINATING	1 (20	664F	
TERNINATING	1,620 102	.000500000 .000500000	.81 .05
OTAL UT F TERM ED-TAN	1,725		
NBUNDLED TRANSPORT TANDEM SWIT	CHING - FL - EC	519 1	
UNDETERMINED ROUTING			
ORIGINATING TANDEM	463	.000290000	.13
ORIGINATING	2	.000290000	. 01
ORIGINATING ACCESS TANDEM	74	.000290000	.02
	_		
ORIGINATING	1,620	-000290000	.47

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	on the Mon ST (10	
ATE CATEGORY	QUANTITY	RATE	AMOUNT
OTAL UT TANDEM SW OTAL UNBUNDLED TRANSPORT CHARG			
NBUNDLED END OFFICE - FL - EC NBUNDLED LOCAL SWITCHING - SWJ LOCAL ORIGINATING	C 5191 ITCHING FUNCTION	WLITY	
EO	•		
SINGLE NETWORK			
INTRASWITCH INITIAL			
ADDITIONAL	9	.017500000	.16
INTERSHITCH	i	.005000000	.01
INITIAL	222		
ADDITIONAL	154	.017500000	3.89
MULTIPLE NETWORK	134	.005000000	.77
INTERSWITCH	1 A.		
INITIAL	94	.017500000	• /-
ADDITIONAL	68	.005000000	1.65
TEO			. 34
SINGLE NETWORK			
INTERSWITCH			1
ADDITTONAL	221	.017500000	3.87
MULTIPLE NETWORK	154	.005000000	.77
INTERSWITCH			•••
INITIAL			
ADDITIONAL	52 39	.017500000	.91
ACCESS	29	.005000000	.20
ORIGINATING			
EO			
HULTIPLE NETWORK			
INTERSWITCH			
INITIAL		.017500000	15.94
ADDITIONAL	837	.005000000	4.19
TERMINATING TEO			4.17
MULTIPLE NETWORK			
INTERSWITCH			
INITIAL			
	455	.017500000	7.96

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Ð	T 22 00 THRU NOV 21 00		•
RATE CATEGORY	QUANTITY	RATE	AMOUNT
TOTAL ULS ~ SWITCH FUNC TOTAL UNBUNDLED END OFFIC	3,550 E CHARGES - FL - EC 51	.91	42.33 42.33
UNBUNDLED MISCELLANEOUS - FULLY AUTOMATED CALL	- FL - EC 5191		
HANDLED LEC LIDB	3	.100000000	.30
TOTAL UNBUNDLED MISCELLA	NEOUS CHARGES - FL - EC		.30
TOTAL LOCAL USAGE CHARGES	END AFETCE WINNELADING	* 0	50.18

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* * LOCAL USAGE FOR OFFICE MIANFLBA85E * * * AUG 22 00 THRU SEP 21 00 AUG 22 THRU SEP 06 ¥ ł ¥ ¥ RATE CATEGORY AMOUNT QUANTITY RATE UNBUNDLED TRANSPORT SHARED TRANSPORT - FL - EC 5191 ACCESS TANDEM TERMINATING HIAMFLGR05T - 003 MILES 1 .000012006 .01 ---------TOTAL UT SHRD TRANS 1 .01 UNBUNDLED TRANSPORT FACILITIES TERMINATION ED TO TANDEM - FL - EC 5191 ACCESS TERMINATING 1 .000500000 . 01 -----TOTAL UT F TERM ED-TAN 1 .01 UNBUNDLED TRANSPORT TANDEM SWITCHING - FL - EC 5191 ACCESS TANDEM TERMINATING .800290000 1 .01 ----TOTAL UT TANDEM SH 1 TOTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 .01 UNBUNDLED END OFFICE - FL - EC 5191 UNBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY ACCESS TERMINATING TEO HULTIPLE NETWORK

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TOTAL ULS - SWITCH FUNC 1 TOTAL UNBUNDLED END OFFICE CHARGES - FL - EC 5191

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* * * * LOCAL USAGE FOR OFFICE MIAMFLBA85E * * * * * * AUG 22 00 THRU SEP 21 00 SEP 07 THRU SEP 21 RATE CATEGORY QUANTITY RATE AHOUNT UNBUNDLED TRANSPORT SHARED TRANSPORT - FL - EC 5191 LOCAL UNDETERMINED ROUTING ORIGINATING MIAMFLAEDSO - 003 MILES MIAMFLCADSO - 009 MILES MIAMFLCADSO - 009 MILES MIAMFLFLDSO - 002 MILES MIAMFLGDS1 - 003 MILES MIAMFLMLDSO - 011 MILES .000012000 .000012000 .000012000 .000012000 10 .01 51 .01 123294 . 81 .900012088 .01 MIANFLME32E - 003 MILES .000012000 .01 NDADFLGG1KD - 014 HILES .01 PRRNFLMADSO - 013 MILES . 000012000 . 01 TANDEM ORIGINATING TLDFLIAHCM2 - 028 MILES FTLDFLTBCM4 - 028 MILES MIANFLAFCM1 - 003 MILES MIANFLAFCM1 - 003 MILES MIANFLGGCM4 - 014 MILES 0JUSFLTLCM1 - 016 MILES 1125525 .000012000 .01 .000012000 .01 .01 .000012000 .01 .01 .000012000 .01 ACCESS TANDEM ORIGINATING NDADFLGGOIT - 014 MILES TERMINATING 115 .000012000 .02 MIAMFLGR05T - 003 MILES NDADFLGG01T - 014 MILES 23 .000012000 . 91 .000012000 .01 * - ~ -TOTAL UT SHRD TRANS 236 .18 UNBUNDLED TRANSPORT FACILITIES TERMINATION ED TO ED - FL - EC 5191 LOCAL UNDETERMINED ROUTING ORIGINATING 42 .000500000 .02 TANDEM ORIGINATING 68 .000590000 .03 TOTAL UT F TERM EO-EO 110 .05 UNBUNDLED TRANSPORT FACILITIES TERMINATION EO TO TANDEN - FL - EC 5192 ACCESS TANDEM ORIGINATING 115 .000500000 . 06 CONTINUED

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	ÎN	LL NO 305 Q VOICE NO 305Q9 LL.DATE NOV 2 PAGE	26 2,2800 30				•
* * * # * * * * LOCAL (Al	USAGE FOR OFFICE MIAMF UG 22 60 THRU SEP 21 0 SEP 07 THRU SEP 21	LBA85E * * * * * * 0	****				
RATE CATEGORY TERMINATING	QUANTITY 5	RATE .089500000	AMOUNT	•			
TOTAL UT F TERM ED-TAN	120		.07				
UNBUNDLED TRANSPORT TANDI LOCAL	EN SWITCHING - FL - EC	5191	· · ·	· .			
UNDETERMINED ROUTING ORIGINATING	42	.000290800	.01				· .
TANDEH ORIGINATING ACCESS	68	.080290000	.02	•			• .
TANDEM ORIGINATING TERMINATING)15 5	. 000299000 . 000290000	.03 .01				
TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPOR	230 T CHARGE - FL - EC 519		. 07 . 37	. •		 	
UNBUNDLED END OFFICE - 1 UNBUNDLED LOCAL SWITCHING LOCAL ORIGINATING	FL - EC 5191 G - Switching Function	ALITY		e De la composition			
EO SINGLE NETWORK INTRASWITCH INITIAL	4	.017500000	. 97	· · .			
INTERSWITCH INITIAL Additional Wultiple Network	20 13	.017500000 .005000000	-35 - 07			···· <u>·</u>	
INTERSWITCH INITIAL ADDITIONAL TEO	37 40	.017500000 .005000000	.65 .20				
SINGLE NETWORK INTERSWITCH INITIAL ADDITIONAL	20 13	.017500000	- 35			•	· . ·
MULTIPLE NETWORK INTERSWITCH INITIAL	555	.017500000	.09				·

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 * * * * * * * * * LOCAL USAGE FOR OFFICE HIAMF AUG 22 00 THRU SEP 21 0 SEP 07 THRU SEP 21	LBA85E * * *	*****
 RATE CATEGORY ACCESS ORIGINATING EQ	RATE	AMOL
 MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL 43 TERMINATING 112 TEO	.017500000 .005000000	7
HULTIPLE NETWORK INTERSWITCH INTITAL 30 ADDITIONAL 33	.017500000 .005000000	.5
 TOTAL ULS - SWITCH FUNC 365 TOTAL UNBUNDLED END OFFICE CHARGES - FL ~ EC 51		3.8

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RATE CATEGORY	QUANTITY	RATE	AHOUNT
UNBUNDLED TRANSPORT SHARED TR	ANSPORT - FL - FC	5141	
LULAL			
UNDETERMINED ROUTING			
ORIGINATING	_		
FILDFLWADS1 - 026 HILES	· 1	.000012000	. 01
HMSTFLHMDSD - 026 MILES MIAMFLAEDSD - 003 MILES	_6	.000012000	. 01
	31	.000012000	.01
	31 31 2 4	.000012000	. 01
	1	.000012000	.01
	2	.000012000	.01
MIANFLCADS0 - 009 MILES MIANFLFLDS0 - 002 MILES	· 4	.000012000	.01
MIANFLERDSI - 003 MILES	8	.000012000	.01
MIAMFLHEDSO - 011 MILES	258	.000012000	.01
MIAMFLICDS0 - 010 MILES	17	.000812060	.01
HIAMFLKEDSO - 006 MILES	20	.000012000	. 01
MIAMFLKYDSO - 003 MILES	1	.000012000	.01
MIAMFLME32E - 003 MILES	1 9 46 5	.000012000	.01
MIAMFLNMDSO - 011 MILES		-000012000	.01
MIAMFLOL68E - 011 MILES	42	.000012000	.01
MIAMFLPB88E - 006 MILES	2	.000012000	. 01
MIAMFLPLDSO - 009 MILES	5536	.000012000	.01
MIAHFLARDSO - 005 MILES	6 9 15 36	.000012000	.01
MIAMFLSH75E - 007 MILES	16	.000012000	. 01
MIAMFLSODSO - 011 MILES	10	.000012008	.01
MIANFLWM26E - 006 NILES	15 34 2 8 2 2 1 1 14	.000012000	.01
MIAPFLYODSO - 005 MILES	<u></u>	.000012000	- 01
NDADFLAC94E - 013 MILES	2		.01
NDADFLBRDS0 - 013 MILES	5	.000012000 .000012000	-01
NDADFLGGCM5 - 014 MILES		.000012000	.01
NDADFLGG1KD - 014 MILES	†	.000012000	-01
NDADFLOLDS6 - 015 MILES	16	.000012000	.01
PRRNFLMADSO - 013 MILES	22	.000012000	. 01
COCYFLIODSI - 013 MILES	-6	.000012000	. 01
FTLDFLTBCM4 - 028 MILES	24	.000012000	.01
TANDEM		. 104075000	.01
DRIGINATING			
FTLDFLAMCH2 - 028 MILES	1	.000012000	C 3
FTLDFLTBCH4 - 028 MILES	. 1	.006012008	.01
MIAMFLAFCHI - 903 MILES	16	.000812000	.01
MIAHFLHLDSO - 011 MILES	-1	.000012000	.01
MIAMFLYJCMO - 025 MILES	\$.000012000	.01
MIAMFLYJCM2 - 025 MILES	1 3 4	.690012000	.01 .01
MIANFLYJCH5 - 025 MILES	79	.000012000	
NDADFLGGCM4 - 914 MILES	71	.000012000	.02 .01
NDADFLGGCM5 - 014 MILES			

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	IN	LL NO 305 IVOICE NO 305 LL DATE NOV	22,2000
* * * * * * * * * LOCAL USAGE SEP 22	FOR OFFICE MIAMF	LBA85E * * * * :	*****
RATE CATEGORY	QUANTITY	RATE	AMOUN
NDADFLGG01T - 014 MILES OJUSFLT1CH1 - 016 MILES		.000012600	.01
MDADFLGG03T - 014 MILES ACCESS TANDEN	68 1	.000012006 .000012000	.81 .01
ORIGINATING		· .	
MIAMFLGROST - DO3 MILES NDADFLGGOIT - DI4 MILES TERMINATING	9 144	.000012000 .000012000	. 01 . 02
MIANFLEROST - 003 MTIES	8	66663 2040	
NDADFLGGOIT - 014 WILES	18	.000012000 .000012000	.01
TOTAL UT SHRD TRANS	989	•	.49
UNBUNDLED TRANSPORT FACILITIES	TERMINATION CO.	10 EQ - FL - FC	53 91
UNDETERMINED ROUTING	CONTRACTOR EQ		
UNDETERMINED ROUTING ORIGINATING	548	.000500000	
UNDETERMINED ROUTING	• •		.27
LUCAL UNDETERMINED ROUTING ORIGINATING TANDEM	548	. 000500000	.27
UNDETERMINED ROUTING ORIGINATING TANDEN ORIGINATING ORIGINATING TOTAL UT F TERM ED-E0	548 239 787	. 900500000 . D00500000	.27 .12 .39
UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-EO UNBUNDLED TRANSPORT FACILITIES	548 239 787	. 900500000 . D00500000	.27 .12 .39
UNDETERMINED ROUTING ORIGINATING TANDEN ORIGINATING TOTAL UT F TERM ED-EO UNBUNDLED TRANSPORT FACILITIES LOCAL	548 239 787	. 900500000 . D00500000	.27 .12 .39
UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-EO UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM	548 239 787 Termination EC	.000500000 .000500000 - TO TANDEM - FL -	.27 .12 .39 EC 5191
UNDETERMINED ROUTING ORIGINATING TANDEN ORIGINATING TOTAL UT F TERM ED-EO UNBUNDLED TRANSPORT FACILITIES LOCAL	548 239 787	. 900500000 . D00500000	.27 .12 .39
UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-EO UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM ORIGINATING ACCESS TANDEM	548 239 787 Termination EC	.000500000 .000500000 - TO TANDEM - FL -	.27 .12 .39 EC 5191
LUCAL UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-ED UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM ORIGINATING ACCESS TANDEM ORIGINATING	548 239 787 Termination Eo 4 153	.000500000 .000500000 - TO TANDEM - FL - .000500000	.27 .12 .39 EC 5191 .01
UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-EO UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM ORIGINATING ACCESS TANDEM	548 239 787 TERMINATION EO 4	.000500000 .000500000 - TO TANDEM - FL - .000500000	.27 .12 .39 EC 5191
LUCAL UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-ED UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM ORIGINATING ACCESS TANDEM ORIGINATING	548 239 787 Termination Eo 4 153	.000500000 .000500000 - TO TANDEM - FL - .000500000	.27 .12 .39 EC 5191 .01
UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-EO UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM ORIGINATING ACCESS TANDEM ORIGINATING TERMINATING TOTAL UT F TERM EO-TAN UNBUNDLED TRANSPORT TANDEM SWIT LOCAL	548 239 787 TERHINATION EO 4 153 25 182	.000500000 .000500000 TO TANDEM - FL - .000500000 .000500000	.27 .12 .39 EC 5191 .01 .01
UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-EO UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM ORIGINATING ACCESS TANDEM ORIGINATING TOTAL UT F TERM EO-TAN UNBUNDLED TRANSPORT TANDEM SWIT LOCAL UNDETERMINED ROUTING ORIGINATING	548 239 787 TERHINATION EO 4 153 25 182	.000500000 .000500000 TO TANDEM - FL - .000500000 .000500000	.27 .12 .39 EC 5191 .01 .01
UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-EO UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM ORIGINATING ACCESS TANDEM ORIGINATING TOTAL UT F TERM EO-TAN UNBUNDLED TRANSPORT TANDEM SWIT LOCAL UNBUNDLED TRANSPORT TANDEM SWIT UNBUNDLED TRANSPORT TANDEM SWIT ORIGINATING ORIGINATING TANDEM	548 239 787 TERMINATION EC 4 153 25 182 ICHING - FL - EC 548	.000500000 .000500000 TO TANDEM - FL - .000500000 .000500000 .000500000 .000500000	.27 .12 .39 EC 5191 .01 .01 .01 .10
UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-ED UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM ORIGINATING ACCESS TANDEM ORIGINATING TOTAL UT F TERM ED-TAN UNBUNDLED TRANSPORT TANDEM SWIT LOCAL UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TANDEM ORIGINATING	548 239 787 TERHINATION EO 4 153 25 182 ICHING - FL - EC 548 3	.000500000 .000500000 TO TANDEM - FL - .000500000 .000500000 .000500000 - 5191 .000290000 .000290000	.27 .12 .39 EC 5191 .01 .01 .10 .10
UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-EO UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM ORIGINATING ACCESS TANDEM ORIGINATING TOTAL UT F TERM EO-TAN UNBUNDLED TRANSPORT TANDEM SWIT LOCAL UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING ORIGINATING ORIGINATING ORIGINATING ORIGINATING ORIGINATING ORIGINATING ORIGINATING ORIGINATING	548 239 787 TERMINATION EC 4 153 25 182 ICHING - FL - EC 548	.000500000 .000500000 TO TANDEM - FL - .000500000 .000500000 .000500000 .000500000	.27 .12 .39 EC 5191 .01 .01 .01 .10
LUCAL UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING TOTAL UT F TERM ED-EO UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM ORIGINATING ACCESS TANDEM ORIGINATING TOTAL UT F TERM EO-TAN UNBUNDLED TRANSPORT TANDEM SWIT LOCAL UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING ORIGINATING ORIGINATING ORIGINATING	548 239 787 TERHINATION EO 4 153 25 182 ICHING - FL - EC 548 3	.000500000 .000500000 TO TANDEM - FL - .000500000 .000500000 .000500000 - 5191 .000290000 .000290000	.27 .12 .39 EC 5191 .01 .01 .10 .10

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* * * * * * * * * LOCAL USA	GE FOR OFFICE MIAME	LBA85E * * * * * *	[# # # #		•	
SEF RATE CATEGORY TERMINATING	22 00 THRU OCT 21 0 QUANTITY 25	RATE . 000290400	AHOUNT			a a a a a a a
TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT C	969 HARGE - FL - FC 519		.29 1.27			
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING -	- EC 5191				· .	
ORIGINATING						·
EO SINGLE NETWORK INTRASWITCH	,					
INTRASWITCH INITIAL ADDITIONAL INTERSWITCH	32 39	.017500000 .005000000	. 56 . 20		- •	
INITIAL ADDITIONAL MULTIPLE NETWORK	195 342	.017500000 .005000000	3.41 1.71			· .
INTERSWITCH INITIAL ADDITIONAL TEO	152 102	.017500000 .00500000	2.66			
SINGLE NETWORK INTERSWITCH	·	• •	· · · ·			
INITIAL ADDITIONAL MULTIPLE NETWORK	194 342	.017508000 .00500000	3.40 1.71			
INTERSWITCH INITIAL ADDITIONAL ACCESS	10	.017500000 .00500000	.11 .05			
ORIGINATING						
NULTIPLE NETWORK INTERSWITCH INITIAL	142	. 917500000	2.49			
ADDITIONAL TERMINATING TEO	186	.00500000	.93	· .		
NULTIPLE NETWORK INTERSWITCH	· · · · · ·					
INITIAL ADDITIONAL	148 155	.017500000 .005000000	2.59 -78			, · · ·

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* * * * * * * * * * *	LOCAL USAGE FOR OFFICE MIAMFLBA85E	* * * * * * * * *	ж×
	SEP 22 00 THRU OCT 21 00		•
BATE CATCODY		A	

RATE CATEGORY	QUANTITY	RATE	AMOUNT
TOTAL ULS - SWITCH FUNC Total unbundled end office	2,045 CHARGES - FL - EC 5191 .		21.11 21.11

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ATE CATEGORY	00 THRU NOV 21 0 QUANTITY	RATE	ANOUNT		
BUNDLED TRANSPORT SHARED TRA			10000		
LOCAL		JL 7 L			
UNDETERMINED ROUTING ORIGINATING					
FTLDFLMRDS0 - 026 MILES		.000012000	.61		
FTLDFLTBCM4 - 028 MILES FTLDFLWADS1 - 026 MILES	52	.000012000 .000012000	-02 .01		
FTLDFL92DS0 - 013 MILES	î	.000012000	.01		
HMSTFLNARSD - 021 MILES	12	.000012000	.01	· ·	
NIAMFLAEDS0 - 003 MILES NIAMFLAFCM1 - 003 MILES	80	.000012000 .000912000	.01 .01		
MIAMFLAL63E - 005 MILES	21	.000012000	.01		
MIAMFLBCDS0 - 804 MILES NIAMFLBRDS0 - 806 MILES		.000012000	.01		and the second
MIANFLBRDS0 - 006 MILES MIAMFLCADS0 - 009 MILES	11 114	.000012000 .000012000	.01 .01	· · ·	
MIAMFLFLDS0 - 002 MILES	119	.000012000	.01		
MIAMFLGRDS0 - 003 MILES MIAMFLGRDS1 - 003 MILES	14 872	.000012000	.01		
MIAMFLHLDSO - 011 MILES	11	.000612009 .080612000	.03 .01		
MIAMFLICDS0 - 010 MILES	79	.000012000	.01		
MIAMFLKEDSO - 006 MILES MIAMFLME32E - 003 MILES	45 26	.000012000 .000012000	.01 .01		
MIANFLNMDSO - 011 MILES	198	.000012000	.03		
MIAMFLNSDSD - 007 MILES	19	.008012000	.01		
MIANFLOL68E - 011 MILES MIAMFLPB88E - 006 MILES	22	.000012000 .000012000	.01 .01	·	
MIANFLPLDS0 - 009 MILES	22 35 13	.000012000	.01		
MIAMFLERDSO - 805 MILES	37	.000012000	.01		
MIANFLSH75E - 007 MILES MIAMFLSODSO - 011 MILES	23 415	.000012000 .000012000	.01 .05		
MIAMFLWDDS0 - 015 MILES	16	.000012000	.01	· · · · · ·	
MIANFLWH26E - 006 MILES	26	.000012000	.01		
MIAMFLYJCM2 - 025 MILES MIANFLPVDS0 - 008 MILES		.000012000 .000012000	_01 .01		
MIANFLWKDS0 - 008 MILES	·	.000012000	.01	et al la construction de la constru	
MIAQFLOGDSO - 013 MILES	17	.800012000	.01	•	. '
NDADFLAC94E - 013 HILES NDADFLGGCM5 - 014 HILES	2 7	.000012000 .000012000	.01 .01		
NDADFLGGDS0 - 014 MILES	i	.000012000	.01		
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DRIGINATING	- /				
FTLDFLAMCH2 - 028 NTLES FTLDFLTBCH4 - 028 MILES	16 53	.000012000 .000012000	.01 .02		
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·.	RATE CATEGORY MIAMFLAFCM1 - 003 MILES MIAMFLAPDS0 - 006 MILES MIAMFLHLDS0 - 011 MILES MIAMFLMDS0 - 011 MILES MIAMFLMM26E - 006 MILES	QUANTITY 72 1 3 2	RATE .000012000 .000012000 .000012000 .000012000 .000012000	AMOUNT .01 .01 .01 .01		
	MIANFLYJCH2 - 025 MILES MIANFLYJCH3 - 025 MILES MIANFLYJCH5 - 025 MILES NDADFLGGCH4 - 014 MILES NDADFLGGCH5 - 014 MILES	57 246 164	.000012000 .000012000 .000012000 .000012000	.01 .02 .07 .03		
	MDADFLGGCHD - 014 MILES DJUSFLTLCMI - 016 MILES PMBHFLJKCM2 - 016 MILES PRNFLAKCM2 - 013 MILES	12 6 115 3	.000012000 .000012000 .000012000 .000012000	.01 .01 .62 .01		
	NDADFLGGCH4 ~ 014 MILES NDADFLGG03T ~ 014 MILES ACCESS TANDEM ORIGINATING	1 26	.000012000 .000012000 .000012000	. 91 . 91 . 92		n an
	MIANFLGROST - 003 MILES NDADFLGGOIT - 014 MILES TERMINATING	21 424	.000012000	.01 .07		and a second second Second second
÷.	MIAMFLGROST - 003 MILES NDADFLGG01T - 014 MILES NDADFLGG04T - 014 MILES WPBHFLGR02T - 076 MILES	26 97 3 1	.000012000 .000012000 .000012000 .000012000	.01 .02 .01 .01		
· · ·	TOTAL UT SHRD TRANS	4,120		.94		
	UNBUNDLED TRANSPORT FACILITIES	TERMINATION E	O TO ED - FL - EC	5191		
	UNDETERMINED ROUTING ORIGINATING TANDEM	2,751	. 000500000	1.38		
	ORIGINATING	741	.000500088	.37	· · · · ·	a da ser a ser
	TOTAL UT F TERM ED-ED	3,492		1.75		

IUTAL OF F TERM EUTEN	5,492		1.75	
UNBUNDLED TRANSPORT FACILITIE	S TERMINATION ED T	O TANDEM - FL - EC 51	91	
TANDEM ORIGINATING ACCESS	31	.000500000	.02	and the second
TANDEM ORIGINATING TERHINATING	445 125	.000500000	.22	terri di si su si su si sulla di sulla

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TOTAL UT F TERH ED-TAN 601 .30 UNBUMDLED TRANSPORT FACILITIES TERMINATION TOPS TO E0 - FL - EC 5191 TANDEH 000500000 .01 TANDEH 000500000 .01 .000500000 .01 TOTAL UT F TERM TOPS-E0 10 .01 .01 UNBUNDLED TRANSPORT TANDEN SWITCHING - FL - EC 5191 .000290000 .80 ORIGINATING 2,751 .000290000 .80 ORIGINATING 2,751 .000290000 .80 ORIGINATING 766 .000290000 .22 ACCESS 766 .000290000 .22 TOTAL UT TANDEM SW 125 .000290000 .33 ORIGINATING 445 .000290000 .34 ORIGINATING 125 .000290000 .34 TOTAL UT TANDEM SW 1.20 .000290000 .34 TOTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 4.20 .20 UNBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .005000000 3.85 INTERSWITCH .20 .017500000 3.85 INTITIAL .20 .017500000 3.85 INTITIAL </th <th></th> <th></th> <th></th> <th>INVOICE NO BILL DATE</th> <th>505 00 305092 NOV 22,2000 PAGE 38</th>				INVOICE NO BILL DATE	505 00 305092 NOV 22,2000 PAGE 38
TOTAL UT F TERH ED-TAN 601 .30 UNBUMDLED TRANSPORT FACILITIES TERMINATION TOPS TO E0 - FL - EC 5191 TANDEH 000500000 .01 TANDEH 000500000 .01 .000500000 .01 TOTAL UT F TERM TOPS-E0 10 .01 .01 UNBUNDLED TRANSPORT TANDEN SWITCHING - FL - EC 5191 .000290000 .80 ORIGINATING 2,751 .000290000 .80 ORIGINATING 2,751 .000290000 .80 ORIGINATING 766 .000290000 .22 ACCESS 766 .000290000 .22 TOTAL UT TANDEM SW 125 .000290000 .33 ORIGINATING 445 .000290000 .34 ORIGINATING 125 .000290000 .34 TOTAL UT TANDEM SW 1.20 .000290000 .34 TOTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 4.20 .20 UNBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .005000000 3.85 INTERSWITCH .20 .017500000 3.85 INTITIAL .20 .017500000 3.85 INTITIAL </th <th></th> <th></th> <th></th> <th></th> <th>****</th>					****
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ADDITIONAL HULTIPLE NETWORK INTERSWITCH	1,724		
	-, ,	.005000000	8.62
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ESS	10		. 40
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HULTIPLE NETWORK INTERSWITCH			
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MULTIPLE NETWORK INTERSWITCH			
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INDLED MISCELLANEOUS - FL - E	C 5191		
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ULLY AUTOMATED CALL	_		
ANDLED LEC LIDB	3	.100000000	.30
AL UNBUNDLED NISCELLANEOUS CH	ARGES - FL - E	 C 5191	.42
AL LOCAL USAGE CHARGES FOR OF	FICE MIAMFLBAS	5E	136.91

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TOTAL USAGE CHARGES FOR OFFICE MIAMFLBA85E 136.91

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UNBUNDLED TRANSPORT TANDEN SWIT ACCESS TANDEM TERMINATING TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CHARG UNBUNDLED END OFFICE - FL - EC UNBUNDLED LOCAL SWITCHING - SWI ACCESS TERMINATING TEO MULTIPLE NETWORK INTERSWITCH	ICHING - FL - EC 1 E - FL - EC 5191 TCHING FUNCTION	.0002900 1 ALITY		. 0

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TOTAL UT F TERM ED-TAN	2	-
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TERMINATING	2	. 000290000
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RATE CATEGORY	QUANTITY	RATE	AMOUNT			
UNBUNDLED TRANSPORT SHARED TRA	INSPORT - FL - E	C 5191		na sa ta sa		
UNDETERMINED ROUTING ORIGINATING					· ···	
MIAMFLAEDS0 - 007 NILES MIAMFLBA85E - 009 MILES	5 1	.008012060	.01			
MIAMFLBCDS8 - 817 NTLES	1	.000012000 .000012000	.91 .01		an Angalan Ang Angalan Angalan	
MIANFLBRDS0 - 015 MILES MIANFLDADS0 - 011 MILES	1 504	.000012000	.01			
MIANFLHLDSO - 011 MILES MIANFLOL68E - 013 MILES	3	.000012000	.01			
MIANFLPLOSC - 005 MILES MIANFLRRDSO - 005 MILES	15	.000012000	.01 .01			
MIAMFLWDDS0 - 007 MILES MIAMFLWM26E - 004 MILES	13	.000012000 .000012000	.01 .01	$(1,1) = \sum_{i=1}^{n} (1,1) = \sum_{i=1}^{n} (1,1$	e ser e e	
MIAMFLYJCH5 - 022 MILES PRRNFLMADSO - 009 MILES	6 30	.000012000 .000012000	.01 .01	·	· ·	
TANDEN	3	.000612000	.01	·		
ORIGINATING Fildflancm2 - 031 miles	. 1	.000012000	.01			
FTLDFLTBCH4 - 030 HILES MIAMFLPLDS0 - 005 MILES	i i	.000012000	. 01			
MIAMFLYJCHO - 022 HILES MIAMFLYJCHS - 022 HILES	î	.008012000	.01 .01			
NDADFLGGCM4 - 018 MILES NDADFLGGCM5 - 018 MILES	. 2	.000012000	.01 .01			-
0.AUSFLTLCH1 - 021 MILES	3 3 1	.000012000 .000812000	.01 .01		• •	
TANDEM				,		· · ·
TERMINATING MIAMFLOROST - 011 MILES	1	.000012000	. 01			
NDADFLGGOIT - 018 MILES	1 2	.000012000	.01			
TOTAL UT SHRD TRANS	692			·		
UNBUNDLED TRANSPORT FACILITIES		TO CO	.29		• •	
UNDETERMINED ROUTING	TENNANTION CO	10 EU - FL - EC 61	.91			
ORIGINATING TANDEM	581	.000500000	.29			
ORIGINATING	7	.000500480	.01			
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Pri in			IN	VOICE NO 305	Q9 Q92
	•		BI	LL DATE NOV	22,2000
		* * * * * * * * * LOCAL USAGE F SEP 22 0	OR OFFICE MIAME 0 THRU OCT 21 0	LCADS0 * * * *	* * * * * *
		RATE CATEGORY	QUANTITY	RATE	AMOUN
	•	TOTAL UT F TERN EQ-ED	588		
	۲ <u>۰</u>	UNBUNDLED TRANSPORT FACILITIES ACCESS TANDEN	TERMINATION EO	TO TANDEM - FL	- EC 5191
		TERMINATING	3	.000500000	.01
	•, "	TOTAL UT F TERM EO-TAN	3		.01
		UNBUNDLED TRANSPORT TANDEM SWIT	CHING - FL - EC	5191	
	:	UNDETERMINED ROUTING ORIGINATING TANDEM	581	.000290000	.17
		ORIGINATING	7	.000290000	.01
		TANDEH TERMINATING	3	. 000290000	.01
		TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CHARGE	591 E - FL - EC 5191	· ·	.19
		UNBUNDLED END OFFICE - FL - EC UNBUNDLED LOCAL SWITCHING - SWI LOCAL ORIGINATING EO	57 97		.77
,*	• .	SINGLE NETWORK INTRASWITCH			
		INITIAL INTERSWITCH	4	.017500000	. 07
		INITIAL ADDITIONAL MULTIPLE NETWORK INTERSWITCH	27 51	.017500000 .005000000	.47 .26
		INITIAL ADDITIONAL TEO	19 492	.017500000 .005000000	.33 2.46
		SINGLE NETWORK			
		INTERSWITCH INITIAL	27	.017500000	.47

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2600 43 * * * * AMOUNT .30 C 5191 .01 .01 .17 .01

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RATE CATEGORY MULTIPLE NETWORK	QUANTITY	RATE	AMOUNT	
INTERSWITCH INITIAL ADDITIONAL ACCESS	12 492	.017500000	.21 2.46	
ORIGINATING ED Multiple Network Interswitch Initial	. 3	. 917509809	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
ADDITIONAL Terminating Teo Multiple Network Interswitch	-6	.005000000	.04 .03	· · ·
INITIAL ADDITIONAL	14 29	.017500000	.25 .15	·

 $(\mu_{1},\mu_{2}) = \frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right) \right)^{2} \left(\frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right) \right)^{2} \left(\frac{1}{2} - \frac{1}{2} \right)^{2} \left(\frac$

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* LOCAL USAGE OCT 22	FOR OFFICE MIANFL	CADS0 * * * * * *	* * * *
	QUANTITY	RATE	AMOUNT
PORT SHARED TRA ROUTING	NSPORT - FL - EC	5191	·
- 030 NILES - 030 NILES - 021 NILES	4 4 1		.01

RATE CATEGORY	QUANTITY	RATE	AMOUNT
UNBUNDLED TRANSPORT SHARED TRA	INSPORT - FL - EC	5191	
LDCAL UNDETERMINED ROUTING	. '		
ORIGINATING			
FTLDFLTBCH4 - 030 MILES	4	.000012000	. 01
FTLDFLWADS1 - 030 NTLES	4	.000012009	·
HMSTFLHMDS0 - 021 MILES	i	.000012000	.01
MIANFLAEDSO - 007 MILES	96	.000012000	. 01
MIAMFLALG3E - 009 MILES	6	.000012000	.01
MIAMFLAPDS0 ~ 007 MILES	10	.000012090	.01
MIAMFLBA85E - 009 MILES	9	.000012000	.0Ī
HIAMFLECDSO - 011 MILES	2	.000012000	.01
MIAHFLBRDS0 - 015 MILES	5	.000012080	.01
MIAMFLDADSO - 011 MILES	1,409	.000012000	.19
NIAMFLFLDS0 - 009 MILES	?	.000012000	.01
MIAMFLGRDS1 - DII MILES	1	.000012000	.01
MIAMFLGRH12 - 011 MILES	-1	.000012000	.01
HIANFLHLDSO - 011 MILES	18	.000012000	01
MIAHFLME32E - 010 MILES	4	.000012000	.01
HIAMFLNMBS0 - 016 MILES	13	.000012000	.01
MIAMFLNSDSD - 011 MILES	1	.000012000	.01
MIANFLOL68E - 013 MILES	23	.000012000	01
HIANFLPB88E - 008 MILES	4	.000012000	. 91
MIAMFLPLDSO - 005 MILES	26	.000012000	.01
MIAMFLERDSO - 005 MILES	4	.000012000	.01
MIAMFLSODS0 - 005 MILES MIAMFLWDDS0 - 007 MILES	20 112	.000012000	.01
MIANFLWDDSU - 007 MILES MIANFLWM26E - 004 MILES	10	.000012000 .000012000	.01 .01
MIAMFLYJCM5 - 022 MILES	132	.000012000	.01
MIANFLPVDS0 - 004 MILES	36	.000012000	.01
MIAQFLO6DS8 - 016 MILES	18	.000012000	.01
NDADFLAC94E - 018 MILES	î	.000012000	.01
NDADFLBRDS0 - 016 MILES	ī	.000012000	.01
NDADFLGGDS0 - 018 NILES	î	.000012000	.01
NDADFLOLDS0 - 020 NILES	· 1	.000012000	.01
PRRNFLMADSO - 009 MILES	Ĝ	.000012000	.01
WPBIFLJADS1 - 969 MILES	Ğ	.000012000	.01
TANDEM	_		
ORIGINATING			
FTLDFLAHCH2 - 031 MILES	17	.000012000	.01
FTLDFLHQCM2 - 033 MILES	1	.000012000	.01
FTLDFLTBCM4 - 030 MILES	10	800012000	.01
MIANFLAFCHI - BII MILES	15	.000012000	.01
MIANFLAPDSO - 007 HILES	2	086012000	.01
MIAMFLFLDS0 - 009 MILES	2	.000012000	.01
MIAMFLHLDSO - 011 MILES	, Ī	.000012000	.01
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* * * * * * * * * LOCAL USAGE OCT 22	FOR OFFICE MIANFI	LCADSO ¥ ¥ × ¥ ¥	****		÷	
RATE CATEGORY	QUANTITY	RATE	AMOUNT		•	
NIAMFLNNDSO - 016 MILES MIAMFLYJCHO - 022 MILES	29	.000012008 .000012000	.01 .61	A State of the second sec		
HIAHFLYJCH5 - 022 MILES	14	.000012000	.01	• • • •	•	
NDADFLGGCH5 ~ 018 MILES NDADFLOLDS9 - 020 MILES	ş	.000012000 .000012000	.01 .01			
OJUSFLTLCH1 - 021 MILES	14	.000012000	.01	· · · · ·	· · · ·	······································
NDADFLOG03T - 018 MILES Access	6	.000012000	. 01			
TANDEM						
ORIGI nating Mianflgrost - 011 Miles	58	000030000		100 B		
NDADFLGG01T - 018 MILES	253	.000012000	.01 .05			
TERMINATING						
MIANFLGROST - 011 MILES NDADFLGG01T - 018 MILES	2 32	.080012000 .000012000	.01	· · ·		
NDADFLGGD4T - 018 MILES	1	.000012800	.01	100 A.		
TOTAL UT SHRD TRANS	2,457	۰.	.76			
UNBUNDLED TRANSPORT FACILITIES	TERMINATION FO 1	TO FO - FL - FC 5	1 97	· · · · · ·		· · · · ·
LOCAL						· · · · ·
UNDETERMINED ROUTING ORIGINATING	1,975	.000500008	.99			
TANDEM	-					
ORIGINATING	106	.000500000	.05			
TOTAL UT F TERM ED-ED				1997 - A.		
TOTAL OF F TERM ED-ED	2,081		1.04			
UNBUNDLED TRANSPORT FACILITIES	TERMINATION EO	TO TANDEM - FL -	EC 5191	· · · · · · · · · · · · · · · · · · ·		
TANDEN						
ORIGINATING	6	.008500000	.01			
ACCESS TANDEM		1				
ORIGINATING	311	.000500000	.16	· ·		
TERMINATING	34	.000500800	. 02			
-						
TOTAL UT F TERM ED-TAN	351		.19	* .		· ·
UNBUNDLED TRANSPORT TANDEM SHI	TCHING - FL - EC	5191				
LOCAL UNDETERMINED ROUTING	g a ser t		· · · · ·			
ORIGINATING	1,975	.000290800	.57			
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• •				BILL NO INVOICE NO BILL DATE	305 3050 NOV 22,2000 PAGE 47	en en Norden gen		
	*	*********	AL USAGE FOR OFFICE OCT 22 00 THRU NO	MIAMFLCADSO * * V 21 90	******		:	
		ATE CATEGORY TANDEM ORIGINATING	QUANT	ITY RAT 111 .000298				n an tha an tha an tha an tha
· · ·		ORIGINATING ACCESS TANDEM ORIGINATING TERHINATING		511 .000290 54 .000290	G G D .0 9		·	
	1	OTAL UT TANDEM SW OTAL UNBUNDLED TRANS NBUNDLED END OFFICE		431 EC 5191	.70 2.69		• • •	
	U	NBUNDLED LOCAL SWITC Local Originating ED	HING - SWITCHING FU	NCTIONALITY	·			
		SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH		124 .0175000 72 .005000	080 2.17 800 .36			
		INITIAL ADUITIONAL MULTIPLE NETWORK		192 .0175000 319 .005000	000 3.36 000 1.69			
	R en	INTERSWITCH INITIAL ADDITIONAL TFO		113 .017500 463 .005000	000 1.98 000 7.32			
	in ti	SINGLE NETWORK INTERSWITCH INITIAL ADDITIONAL MULTIPLE NETWORK		187 .017500 319 .005000	000 3.27 000 1.60	·.	· ·	
		INTERSWITCH INITIAL ADDITIONAL ACCESS ORIGINATING	1,	51 .0175000 420 .0050000	800 .89 800 7.10			
		EO MULTIPLE NETWORK INTERSWITCH						
	· · ·	INITIAL ADDITIONAL TERMINATING TEO	the second second second	87 .017500 354 .005000	000 1.52 000 1.77			and a second
	5 ¹⁵	NULTIPLE NETWORK INTERSWITCH INITIAL		138 .017500	000 2.42 Continued			

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	* * * * * * * * * * LOCAL USAGE FO DCT 22 00	R DFFICE MIANFLC THRU NOV 21 00	ADS0 × × × ×	*****
	RATE CATEGORY ADDITIONAL	QUANTITY 238	RATE .005000000	Amount 1.19
	TOTAL ULS - SHITCH FUNC TOTAL UNBUNDLED END OFFICE CHARG	5,077 ES - FL - EC 519	1	36.55 36.55
÷	TOTAL LOCAL USAGE CHARGES FOR OF	FICE NIAMFLCADSO	• • •	47.61

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* * * * * * * * * LOCAL II	SAGE FOR OFFICE MI	AMFLGRDS1 *	PAGE 49 	
JU RATE CATEGORY	L 22 00 THRU AUG 2 Guantity		TE AMOUNT	
UNBUNDLED TRANSPORT SHARED Access Tandem				· · · ·
ORIGINATING NDADFLGG011 - 012 MIL	ES 12	.00001;	2000 .01	
TOTAL UT SHRD TRANS	12	2	.01	
UNBUNDLED TRANSPORT FACIL: ACCESS TANDEM	ITIES TERMINATION	EO TO TANDEN	- FL - EC 5191	1. 11 T
ORIGINATING	12	.00050	.01	•
TOTAL UT F TERN EQ-TAN	12	2	.01	
UNBUNDLED TRANSPORT TANDE ACCESS TANDEM ORIGINATING			· · · .	• . •
	12	.00029	.81	
TOTAL UT TANDEN SW Total Unbundled Transport	CHARGE - FL - EC	5191	.01	
UNBUNDLED END OFFICE - FI UNBUNDLED LOCAL SWITCHING ACCESS ORIGINATING	- EC 5191 - Switching Funci	IONALITY		
ED MULTIPLE NETWORK INTERSWITCH	. ۶.			
INITIAL Additional	8			
TOTAL ULS - SWITCH FUNC Total unbundled end offici	13 E CHARGES - FL - E	C 5191		

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* * * * * * * * LOCAL USAGE FOR OFFICE MIAMFLGRDS1 * * * * * * * * * * AUG 22 00 THRU SEP 21 00 AUG 22 THRU SEP 06

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RATE CATEGORY	QUANTITY	RATE	AMOUNT			
UNBUNDLED TRANSPORT SHARED TRA ACCESS	NSPORT - FL - EC	5191				
TANDĒŅ Grīginating Ndadflgggit - 012 Miles	74	.988012000	.01	an An an an tao tao tao		
TOTAL UT SHRD TRANS	74	•	.01			
UNBUNDLED TRANSPORT FACILITIES	TERMINATION EO	TO TANDEM - FL	- EC 5191			· • •
TANDEM ORIGINATING TERMINATING	74 31	.000500000 .000500000	.04 .02	· .		
TOTAL UT F TERM EQ-TAN	105		.06			
UNBUNDLED TRANSPORT TANDEN SHI ACCESS	TCHING ~ FL - EC	5191				
TANDEM ORIGINATING	74 31	.000290000	.02 -			
TERMINATING		.008290000	. 01			
TOTAL UT TANDEM SW Total Unbundled Transport Char	105 GE - FL - EC 519	1	.03 .10	•		
UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW ACCESS	C 5191 LITCHING FUNCTION	ALITY				
ORIGINATING EO MULTIPLE NETWORK		· · ·				
INTERSWITCH INITIAL	18	.017500000	.32			
ADDITIONAL TERMINATING TEO	57	. 605008600	.29		.A.	
HULTIPLE NETWORK INTERSWITCH				· .		
INITIAL Additional	8 23	.017500000 .005000000	.14 .12			
			CONTINUED		-	•

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* * * * * * * * LOCAL USAGE FOR OFFICE MIANFLGRDS1 * * * * * * Aug 22 00 Thru Sep 21 00 Aug 22 Thru Sep 06 * * * * QUANTITY RATE CATEGORY RATE TOTAL ULS - SWITCH FUNC 106 TOTAL UNBUNDLED END OFFICE CHARGES - FL - EC 5191

AMOUNT. .**87** .87

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RATE CATEGORY	QUANTITY	RATE	AMOUNT
UNDUNDLED TRANSPORT SHARED TRANSPO ACCESS TANDEN ORIGINATING			· · ·
NDADFLGG01T - 012 MILES	57	.000012000	.01
TOTAL UT SHRD TRANS	57		. 01
UNBUNDLED TRANSPORT FACILITIES TER ACCESS TANDEM	MINATION ED	TO TANDEM - FL - E	C 5191
DRIGINATING TERMINATING	57 22	.000500000	.03
i ekrizna i zng	22		.01
TOTAL UT F TERM EO-TAN	79		.04
UNBUNDLED TRANSPORT TANDEH SWITCHI Access Tandem	NG - FL - EC	5191	
ORIGINATING	57	.000290000	.02
TERMINATING	22	.000290000	.01
TOTAL UT TANDEN SW	79	_	.03
TOTAL UNBUNDLED TRANSPORT CHARGE -	FL - EC 519	1	.08
UNBUNDLED END OFFICE - FL - EC 51 UNBUNDLED LUCAL SWITCHING - SWITCH ACCESS		ALITY	
ORIGINATING EO NULTIPLE NETWORK			
INTERSWITCH	07	63 7 F 6 6 6 6 6	
INITIAL ADDITIONAL	23 35	.017500000 .005000000	.40 .18
TERMINATING TEO		,	•
MULTIPLE NETWORK INTERSWITCH			
INITIAL	14	.017580080	.25
ADDITIONAL	9	.00500000	.05

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BILL NO	305 Quantum 1
INVOICE NO BILL DATE	305092 NOV 22,2000 PAGE 53

		CATEGORY			QUANTITY		RATE	AHOU
•	TOTAL TOTAL	ULS - SWI UNBUNDLED	TCH FUNC END OFFICE	CHARGES	81 - Fl - Ec	5191 .		.8. .8.
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•	and the second	00 THRU OCT 21 0	0	,				
	RATE CATEGORY	QUANTITY	RATE	ANO	UNT			
	UNBUNDLED TRANSPORT SHARED TRAN LOCAL UNDETERMINED ROUTING	NOFURI - FL - EL	5191	•				
	ORIGINATING FTLDFLWADS1 - 025 MILES			• ·	 '			
	FILDFL92DS0 - 011 MILES	6 2 11	.00001200	Ů .	81 01	÷		
	MIANFLAEDSO - 005 MILES MIANFLAFCH1 - 001 MILES	11 4	.00001200		01 01			
•	MIAMFLBA85E - 003 MILES MIAMFLBCDS0 - 002 MILES	1	.00001200	۵ <u>.</u>	01 · ·			
	MIAMFLCADSO - 011 MILES MIAMFLHLDSO - 011 MILES	274	.00001200	0	01			
	MIAMFLICDS0 ~ 008 HILES	4	.00001200	û .	01 01			
	MIAMFLOL68E - 009 MILES MIAMFLPLDS0 - 010 MILES	1	.00001200		01 01			
	MIAMFLRRDS0 - 008 MILES	7	.D0001200	0.	01			
	HIANFLSODSO - 013 MILES HIANFLWN26E - 007 MILES	1 8	.00001200		01 01		•	· · · · · · · · · · · · · · · · · · ·
	MIAQFL86DS0 - 011 MILES NDADFL6GCM5 - 012 NILES	2 1	.00001200	0	01			
	NDADFLGG1KD - 012 MILES	i	.00001200		01 01			
•	TANDEM ORIGINATING	· ·						
	FTLDFLANCH2 - 027 MILES FTLDFLHQCM2 - 029 MILES	1	.00001200		01			
	FTLDFLTBCM4 - 026 NILES	4	.00001200		01 01	• _ •		
	MIAMFLAFCM1 - 001 MILES MIAMFLYJCM0 - 024 MILES	1	.00001200	o,	01			
	OJUSFLTLCH1 - 014 MILES	2	.00001200	0.	01 01			
	PRRNFLAECH1 - 015 HILES ACCESS	3	.00001200	ه	01			
	TANDEM							
	ORIGINATING NDADFLGG01T - 012 NILES	11	.00001200	o _	91	· · · · · · · · · · · · ·		
	TERMINATING NDADFLGG01T - 012 NILES	31	.00001200	-		· · · ·		
		75	. 84401500		01			
	TOTAL UT SHRD TRANS	129			26	· · · ·		
	UNBUNDLED TRANSPORT FACILITIES		TO EO - EP -					
	LOCAL	TERMINALIUN ED	IV EU - FL -	EC 9171				
۰.	UNDETERMINED ROUTING ORIGINATING	55	. 00050000	·	03		· .	
	TANDEH			-	-			
	ORIGINATING	18	.00050000	Ų .	01			· · · · · · · · · · · · · · · · · · ·
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BILL NO INVOICE NO BILL DATE	305 0 305092 NOV 22,2008 PAGE 55	•	·

NOTAL UT F TERM E0-E0 73 .04 LAMBUNDLED TRANSPORT FACILITIES TERMINATION E0 TO TANDEM - FL - EC 5191 ACCESS TANDEM 13 .000500.000 .01 ORIGINATING TERMINATING 13 .000500.000 .01 .02 INBUNDLED TRANSPORT FACILITIES TERMINATION E0 TO TANDEM - FL - EC 5191 .03 .00500.000 .01 ORIGINATING TERMINED TRANSPORT TANDEM SWITCHING - FL - EC 5191 .03 .03 .03 UNDETERMINED ROUTING ORIGINATING 55 .0002900.00 .02 TANDEM 18 .0002900.00 .01 TANDEM 18 .0002900.00 .01 TANDEM 13 .0002900.00 .01 TANDEMEM 13 .0002900.00			
NBUNDLED TRANSPORT FACILITIES TERMINATION ED TO TANDEM - FL - EC 5191 ACCESS TANDEM ORIGINATING 13 .000500000 .01 ORIGINATING 32 .000500000 .02 OTAL UT F TERM EO-TAN 45 .03 NBUNDLED TRANSPORT TANDEM SWITCHING - FL - EC 5191 .03 UMDETENTINE ROUTING ORIGINATING 55 .000290000 .02 ORIGINATING 18 .000290000 .02 ORIGINATING 13 .000290000 .01 TANDEM 18 .000290000 .01 ORIGINATING 13 .000290000 .01 ORIGINATING 13 .000290000 .01 ORIGINATING 13 .000290000 .01 ORIGINATING 13 .000290000 .01 OTAL UT TANDEM SW 13 .000290000 .01 OTAL UT TANDEM SW 13 .000290000 .01 OTAL UMBUNDLED TRANSPORT CHARGE - FL - EC 5191 .38 .05 NBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .005000000 .99 INTR			
ALLESS 13 .000500000 .01 TANDEN 32 .000500000 .02 OTAL UT F TERM E0-TAN 45 .03 OTAL UT F TERM E0-TAN 45 .03 NBUNDLED TRANSPORT TANDEN SWITCHING - FL - EC 5191 .03 UNDETENTINE 000290000 .02 OTAL UT F TERM E0-TAN 45 .03 NBUNDLED TRANSPORT TANDEN SWITCHING - FL - EC 5191 .03 UNDETENTINE 000290000 .02 ORIGINATING 18 .000290000 .01 ORIGINATING 13 .000290000 .01 OTAL UT TANDEN SW 118 .000290000 .01 OTAL UT TANDEN SW <td< td=""><td>73</td><td></td><td>.04</td></td<>	73		.04
OPRIGINATING TERMINATING 13 32 00050000 00050000 01 002 OTAL UT F TERM ED-TAN 45 .03 OTAL UT F TERM ED-TAN 45 .03 NBUNDLED TRANSPORT TANDEM SWITCHING - FL - EC 5191 .03 UNDETERMINED ROUTING ORIGINATING 55 .000290000 .02 UNDETERMINED ROUTING ORIGINATING 18 .600290000 .01 DETIGINATING 18 .000290000 .01 OTAL UT TANDEM 13 .000290000 .01 ORIGINATING 13 .000290000 .01 OTAL UT TANDEM SW 133 .000290000 .01 OTAL UT TANDEM SW 136 .000290000 .01 OTAL UT TANDEM SW 138 .000290000 .01 OTAL UT TANDEM SW 118 .0075000000 .72	ATION ED	TO TANDEM - FL - E	C 5191
TERMINATING 32 .000500000 .02 OTAL UT F TERM E0-TAN 45 .03 NBUNDLED TRANSPORT TANDEH SWITCHING - FL - EC 5191 .03 UNDETERMINED ROUTING 55 .000290000 .02 UNDETERMINED ROUTING 55 .000290000 .02 ORIGINATING 18 .000290000 .01 ORIGINATING 13 .000290000 .01 ORIGINATING 13 .000290000 .01 ORIGINATING 13 .000290000 .01 OTAL UT TANDEM SW 118 .05 OTAL UT BUNDLED TRANSPORT CHARGE - FL - EC 5191 .38 NBUNDLED END OFFICE - FL - EC 5191 .38 NBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .005000000 ORIGINATING 197 .005000000 ORIGINATING 24 .017500000 .72 ADDITIONAL 23 .005000000 .99 INTERSWITCH 15 .017500000 .92 INTERSWITCH 15 .017500000 .12 MULTIPLE NETWORK 11 .005000000 .06 SINGLE		.000500000	- 61
MBUNDLED TRANSPORT TANDEM SWITCHING - FL - EC 5191 .03 UNDETERMINED ROUTING ORIGINATING 55 .000290000 .02 DATADEM DITGINATING 18 .000290000 .01 ORIGINATING 13 .000290000 .01 OTAL UT TANDEM SW .01 .000290000 .01 OTAL UT TANDEM SW 118 .000290000 .01 OTAL UT ANDEM SW .01 .000290000 .01 OTAL UT ANDEM SW .01 .000290000 .01 OTAL UT ANDEM SW .01 .000290000 .01 NBUNDLED END OFFICE - FL - EC 5191 .005 .005 .005 NBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .0050	32	.000500000	
MBUNDLED TRANSPORT TANDEM SWITCHING - FL - EC 5191 .03 UNDETERMINED ROUTING ORIGINATING 55 .000290000 .02 DATADEM DITIGINATING 18 .000290000 .01 DATESNATING 13 .000290000 .01 ORIGINATING 13 .000290000 .01 TANDEM DRIGINATING 13 .000290000 .01 TANDEM ORIGINATING 13 .000290000 .01 TANDEM ORIGINATING 13 .000290000 .01 OTAL UT TANDEM SW 13 .000290000 .01 OTAL UT TANDEM SW 118 .05 .00290000 .01 OTAL UT TANDEM SW 118 .05 .05 .00290000 .01 OTAL UT TANDEM SW 118 .05 .00290000 .01 OTAL UT ANDEM SW 118 .05 .05 .05 .05 NBUNDLED END OFFICE - FL - EC 5191 .38 .0017500006 .72 .72 MBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .005000000 .99 .99 INTERSWITCH 197 .005000000 .99 INT			
LOCAL UNDETERNINED ROUTING ORIGINATING 55 .000290000 .01 ARCESS TANDEM ORIGINATING 18 .000290000 .01 ACCESS TANDEM ORIGINATING 13 .000290000 .01 TERMINATING 32 .000290000 .01 TERMINATING 32 .000290000 .01 .00 OTAL UT TANDEM SW 118 .05 OTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 .38 NBUNDLED END OFFICE - FL - EC 5191 .38 NBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY LOCAL ORIGINATING 6 EO SINGLE METWORK INTRASWITCH 197 .00500000 .99 INITIAL 24 .017500000 .99 INITIAL 24 .017500000 .99 INITIAL 24 .017500000 .12 MULTIPLE NETWORK INTERSWITCH 15 .017500000 .26 ADDITIONAL 15 .017500000 .06 SINGLE NETWORK INTERSWITCH 11 .00500000 .06	45		.03
LOCAL UNDETERNINED ROUTING ORIGINATING 55 .000290000 .01 ARCESS TANDEM ORIGINATING 18 .000290000 .01 ACCESS TANDEM ORIGINATING 13 .000290000 .01 TERMINATING 32 .000290000 .01 TERMINATING 32 .000290000 .01 .00 OTAL UT TANDEM SW 118 .05 OTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 .38 NBUNDLED END OFFICE - FL - EC 5191 .38 NBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY LOCAL ORIGINATING 6 EO SINGLE METWORK INTRASWITCH 197 .00500000 .99 INITIAL 24 .017500000 .99 INITIAL 24 .017500000 .99 INITIAL 24 .017500000 .12 MULTIPLE NETWORK INTERSWITCH 15 .017500000 .26 ADDITIONAL 15 .017500000 .06 SINGLE NETWORK INTERSWITCH 11 .00500000 .06	- FL - EC	5191	
ORIGINATING 55 .000290000 .02 TANDEM 18 .000290000 .01 ACCESS 13 .000290000 .01 ORIGINATING 13 .000290000 .01 ORIGINATING 13 .000290000 .01 ORIGINATING 13 .000290000 .01 ORIGINATING 13 .000290000 .01 TANDEM 13 .000290000 .01 ORIGINATING 13 .000290000 .01 TANDEM 118 .05 .000290000 .01 TANDEM 118 .05 .000290000 .01 TANDEM 18 .000290000 .01 .05 NBUNDLED END OFFICE - FL - EC S191 .05 .00500000 .72 NBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .005000000 .99 INTRASWITCH 197 .005000000 .99 INITIAL 24 .017500000 .42 ADDITIONAL 12 .005000000 .	. – •••		
TANDEM 10 10 10 ORIGINATING 18 .000290000 .01 ACCESS 13 .000290000 .01 TANDEM 13 .000290000 .01 ORIGINATING 13 .000290000 .01 TERMINATING 13 .000290000 .01 TOTAL UT TANDEM SW 118 .05 TOTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 .38 NBUNDLED END OFFICE - FL - EC 5191 .38 NBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .005 LOCAL SUTCHING - SWITCHING FUNCTIONALITY .07500000 ORIGINATING 0 .01 ORIGINATING 0 .01 ORIGINATING 0 .01 ORIGINATING .017500000 .72 ADDITIONAL .11 .005000000 INTERSWITCH .11 .005000000 <tr< td=""><td>65</td><td>888220000</td><td></td></tr<>	65	888220000	
ACCESS 10 100220000 101 DRIGINATING 13 .000290000 .01 DRIGINATING 32 .000290000 .01 TANDEM 13 .000290000 .01 TOTAL UT TANDEM SW 118 .05 TOTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 .38 NBUNDLED END OFFICE - FL - EC 5191 .38 NBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .00500000 ORIGINATING .017500000 .72 ADDITIONAL 197 .00500000 .99 INTRASWITCH .017500000 .42 ADDITIONAL 24 .017500000 .42 ADDITIONAL 15 .017500000 .12 MULTPLE NETWORK 11 .00500000 .26 ADDITIONAL 11 .00500000 .26 ADDITIONAL 11 .00500000 .06		*****	.02
TANDEM DRIGINATING 13 .000290000 .01 TERMINATING 32 .000290000 .01 TOTAL UT TANDEM SW 118 .05 TOTAL UT TANDEM SW 118 .05 TOTAL UMBUNDLED TRANSPORT CHARGE - FL - EC 5191 .38 NBBUNDLED END OFFICE - FL - EC 5191 .38 NBBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .005 LOCAL ORIGINATING ORIGINATING .017500000 SINGLE NETWORK .017500000 INTRASWITCH .017500000 INTERSWITCH .017500000 INITIAL 24 ADDITIONAL 23 INTERSWITCH .017500000 INTIAL 24 OBJOID .12 MULTPLE NETWORK .017500000 INTIAL 15 ODS000000 .26 ADDITIONAL .11 INTIAL .005000000 .06 .06 SINGLE NETWORK .01 INTIAL .005000000 <t< td=""><td>18</td><td>.000290000</td><td>.01</td></t<>	18	.000290000	.01
TERMINATING 32 .000290000 .01 OTAL UT TANDEM SW 118 .05 OTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 .38 NBUNDLED END OFFICE - FL - EC 5191 .38 NBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .00500000 ORAGINATING .017500000 .72 ORAGINATING .00500000 .99 INTRASWITCH .017500000 .99 INTTASWITCH 197 .00500000 INTERSWITCH .017500000 .99 INTERSWITCH .00500000 .99 INITIAL 24 .017500000 .42 ADDITIONAL 15 .017500000 .12 MULTPLE NETWORK .00500000 .12 INTERSWITCH .00500000 .26 ADDITIONAL 11 .00500000 .06 SINGLE NETWORK .11 .00500000 .06			
TOTAL UT TANDEM SW 118 TOTAL UMBUNDLED TRANSPORT CHARGE - FL - EC 5191 INBUNDLED END OFFICE - FL - EC 5191 INBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY LOCAL ORIGINATING EO SINCLE NETWORK INTIAL ADDITIONAL 197 .00500000 .72 INTERSWITCH 197 .00500000 .99 INITIAL 24 .017500000 .42 ADDITIONAL 23 .005000000 .12 INTERSWITCH 15 .017500000 .26 ADDITIONAL 15 .017500000 .26 SINGLE NETWORK INTERSWITCH 11 .005000000 .06 SINGLE NETWORK			
OTAL UT TANDEM SW 118 .05 OTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 .38 NBUNDLED END OFFICE - FL - EC 5191 .38 NBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY .38 LOCAL ORIGINATING .017500000 FD SINGLE NETWORK .05500000 INITIAL 41 .017500000 INITIAL 197 .00500000 INITIAL 24 .017500000 INITIAL 23 .00500000 MULTIPLE NETWORK .017500000 .12 INTERSWITCH 11 .00500000 ADDITIONAL 15 .017500000 SINGLE NETWORK 11 .00500000 INTERSWITCH 15 .017500000 SINGLE NETWORK 11 .00500000 INTERSWITCH 11 .00500000 SINGLE NETWORK 11 .00500000	32	.000290000	.01
FOTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 .38 INBUNDLED END OFFICE - FL - EC 5191 .38 INBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY LOCAL ORIGINATING 60 SINGLE NETWORK 197 INTIAL 197 INTERSWITCH 197 INTERSWITCH 197 INTERSWITCH 24 ADDITIONAL 23 MULTIPLE NETWORK 12 INTERSWITCH 13 ADDITIONAL 23 ADDITIONAL 23 INTERSWITCH 23 MULTIPLE NETWORK 11 INTERSWITCH 11 INTERSWITCH 11 SINGLE NETWORK 11 INTERSWITCH 105000000 ADDITIONAL 11 SINGLE NETWORK 11 SINGLE NETWORK 11 INTERSWITCH 11 SINGLE NETWORK 11 INTERSWITCH 11			
INBUNDLED END OFFICE - FL - EC 5191 INBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITAL 41 ADDITIONAL 197 INTERSWITCH INITIAL 24 ADDITIONAL 23 MULTIPLE NETWORK INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTAL 15 00500000 25 00500000 12 MULTIPLE NETWORK INTRIAL 15 ADDITIONAL 16 SINGLE NETWORK INTERSWITCH SINGLE NETWORK INTERSWITCH INTERSWITCH NUMERSWITCH	- 50 519		
ANBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH INITIAL 41 .017500000 .72 ADDITIONAL 197 .005000000 .99 INTERSMITCH INITIAL 24 .017500000 .42 ADDITIONAL 23 .005000000 .12 MULTIPLE NETWORK INITIAL 15 .017500000 .26 ADDITIONAL 11 .005000000 .06 TEO SINGLE NETWORK INTERSWITCH	20 227	•	. 30
ORIGINATING E0 SINGLE NETWORK INTRASWITCH 41 017500000 .72 ADDITIONAL 197 005000000 .99 INTERSWITCH 197 005000000 .99 INITIAL 24 .017500000 .42 ADDITIONAL 23 .005000000 .12 MULTIPLE NETWORK INTERSWITCH .017500000 .12 INTERSWITCH 15 .017500000 .26 ADDITIONAL 11 .005000000 .06 SINGLE NETWORK INTERSWITCH .06 .06	FUNCTION	ALITY	
E0 SINGLE NETWORK INTRASWITCH 41 .017506006 .72 ADDITIONAL 197 .00500000 .99 INTERSWITCH 197 .00500000 .99 INITIAL 24 .01750000 .42 ADDITIONAL 23 .00500000 .12 MULTIPLE NETWORK INTERSWITCH .12 INTERSWITCH 15 .017500000 .26 ADDITIONAL 11 .005000000 .06 FEO 11 .005000000 .06 SINGLE NETWORK INTERSWITCH .005000000 .06			
SINGLE NETWORK INTRASWITCH INITIAL 41 .017500000 .72 ADDITIONAL 197 .00500000 .99 INITIAL 24 .017500000 .42 ADDITIONAL 23 .005000000 .12 MULTPLE NETWORK 15 .017500000 .26 ADDITIONAL 11 .005000000 .26 SINGLE NETWORK 11 .00500000 .06 FEO 11 .00500000 .06 SINGLE NETWORK INTERSWITCH .065000000 .26			
INITIAL 41 .017500000 .72 ADDITIONAL 197 .00500000 .99 INTERSWITCH 197 .00500000 .99 INITIAL 24 .017500000 .42 ADDITIONAL 23 .005000000 .12 MULTIPLE NETWORK 11 .017500000 .26 ADDITIONAL 11 .0050000000 .06 TEO 11 .005000000 .06 SINGLE NETWORK INTERSWITCH .06 .06			
ADDITIONAL 197 00500000 197 INTERSWITCH 197 00500000 .99 INITIAL 24 .017500000 .42 ADDITIONAL 23 .005000000 .12 MULTIPLE NETWORK 15 .017500000 .26 INITIAL 15 .017500000 .26 ADDITIONAL 11 .005000000 .06 TEO 11 .005000000 .06 SINGLE NETWORK INTERSWITCH .005000000 .06	63		
INTERSWITCH 24 .017500000 .42 ADDITIONAL 23 .005000000 .12 MULTIPLE METWORK INTERSWITCH 15 .017500000 .26 ADDITIONAL 11 .005000000 .06 SINGLE NETWORK INTERSWITCH			
ADDITIONAL 23 00500000 12 MULTIPLE NETWORK INTERSMITCH 15 017500000 .26 INTITAL 15 .017500000 .26 ADDITIONAL 11 .005000000 .06 TEO 11 .005000000 .06 SINGLE NETWORK INTERSWITCH .005000000 .06	• / /	.043040404	- 77
ADDITIONAL 23 .00500000 .12 MULTPLE NETWORK INTERSMITCH INTERSMITCH .26 INITIAL 15 .01750000 .26 ADDITIONAL 11 .00500000 .06 FEO SINGLE NETWORK .06 .06 INTERSWITCH .00500000 .06	24	.017500000	.42
INTERSWITCH INITIAL 15 .017500000 .26 ADDITIONAL 11 .005000000 .06 TEO .05000000 .06 SINGLE NETWORK INTERSWITCH	23	.005000000	
INITIAL 15 .017508000 .26 ADDITIONAL 11 .005000000 .06 TEO SINGLE NETWORK INTERSWITCH .005000000 .06			
ADDITIONAL 11 .005000000 .06 TEO SINGLE NETWORK INTERSWITCH	76	077500000	
TEO SINGLE NETWORK INTERSWITCH	11		
INTERSWITCH			+ 40
1811 IAL 24 .017500006 .42	•		_
	24	.017500000	.42
•		13 32 45 - FL - EC 55 18 13 32 	13 .000500000 32 .000500000 45

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* * * * * * * * * LOCAL USA Sep	GE FOR OFFICE MIANF 22 00 THRU OCT 21 0	LGRDS1 * * * * * 0	* * * * *
RATE CATEGORY ADDITIONAL MULTIPLE NETWORK	QUANTITY 23	RATE . 09500000	JOHA []
INTERSWITCH Initial Additional	5	.017500000	
ACCESS ORIGINATING EQ MULTIPLE NETWORK INTERSWITCH			
INITIAL ADDITIONAL TERMINATING TEO	18 8	.017500000 .005000000	
MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL	28 47	.017500000	.4
TOTAL ULS - SWITCH FUNC Total unbundled end office	468 CHARGES - FL - FC 5	191	4 . 4.

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		BILL NO INVOICE NO BILL DATE	305 09 3050920 NOV 22,2000 PAGE 57	

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	* * * * * * * * * LOCAL USAGE OCT 22	FOR OFFICE MIA	MFLGRDS1 * *	* * * * * * * *
	RATE CATEGORY	QUANTITY	RATE	AMOUNT
	UNBUNDLED TRANSPORT SHARED TRAI LOCAL UNDETERMINED ROUTING DRIGINATING	NSPORT - FL -	EC 5191	
	FTLDFLTBCH4 - 026 HILES	5	.0000120	.01
	FTLDFLWADS1 - 025 MILES	5 39 27 18 97 19 75 29 8 94	.0080120	
	FTLDFL92DS0 - 811 MILES	27	.0000120	
	HMSTFLHMDS0 - 028 MILES	18	.0080120	
	MIAMFLAEDSO - DOS MILES		.0000120	00 .01
	MIANFLAFCM1 - 001 MILES	2	.0000120	00 .DI
	MIAMFLAL63E - 004 MILES	19	.0000120	00 .01
	NIAMFLAPDSO - 006 MILES	75	.0000120	
	MIAMFLBA85E - 003 MILES	29	.0000120	
	MIAMFLBCDS0 - 002 MILES	8	.0000120	
	MIANFLBRDSO - 004 MILES	291	.0000120	
	MIAMFLCADS0 - 011 MILES Miamfldads0 - 001 miles	164	10000120	
	MIANFLDADSO - 001 MILES MIANFLDADS2 - 001 MILES	104	.0000120	
	MIANFLDADS2 - 001 MILES MIANFLDBRS1 - 008 MILES	43	.0000120 .0000120	
	MIANFLFLDS0 - 003 MILES	20	.0000120	
	MIAMFLHLDSO - 011 HILES	176	.0000120	
	MIAMFLICDSD - 008 MILES	4	.0000120	
	MIAMFLKEDSO - 007 MILES		A A A A A A A A A A A A A A A A A A A	
	MIAMFLNE32E - 002 MILES	33 19 1 19 19	.0000120	
	MIANFLNMDSO - 009 MILES	19	.0000120	
	MIAMFENSDS0 - 006 HILES	i	.0000120	
	MIANFLOL68E - 009 MILES	19	.0000120	00 .01
	MIAMFLPB88E - 807 MILES	18	.0000120	16, 00
	MIANFLPLDS0 - 010 MILES	104	-0000120	00 .02
	MIAMFLRRDS0 - 008 HILES	44	.0000120	
	MIAHFLSH75E - 006 MILES	44	.0000120	
	MIAMFLSODSO - 013 MILES MIAMFLWDDSO - 017 MILES	22	.0000120	
	MIANFLWDDSU - 017 MILES MIANFLWM26E - 007 MILES	49 137	.0000120	
	MIAMFLYJCH2 - 024 MILES	121	.0000120	
	MIAMFLYJCH5 - 024 MILES	1	.0000120	
	MIANFLPVDS0 - 010 MILES	1,046	.0000120	
	MIANFLWKDS0 - 010 MILES	. 6	80903.20	
	MIANFLYIDS5 - 001 MILES	1 1	.0000120	
	MIANFLYIDS6 - 001 MILES	ī	.0080120	
	MIAPFLYODSO - DOG MILES	2 85 11	.0000120	
•	MIAQFLO6DS0 - 011 MILES	8 5	.0000120	
:	MIASFL68DS0 - 010 HILES	11	.0000120	
11 10	NDADFLAC94E - 011 MILES	4	.0000120	
	NDADFLGGCM5 - 012 MILES	42	.0000120	
	NDADFLGGDS0 - 012 MILES	1	.0000120	00 .01

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	* * * * * * * * • LOCAL	USAGE FOR OFFICE M OCT 22 00 THRU NOV	IAMFLGRDS1 * 3 21 00	******		:				· . · · ·
	RATE CATEGORY NDADFLGG1KD - 012 M								· .	•
•	NDADFLOLDS0 - 013 M DJUSFLTLDS2 - 014 M	ILES	1 .000012	2000 .01	·					·.
	PMBHFLEDOKD - 026 M PRRNFLMADSO - 015 M	ILES		.01				·		
	COCYFL10DS1 - 012 M	ILES 2 ILES 6								
	TANDEN ORIGINATING			•••					•	· .
	BCRTFLSNCM1 - 040 N FTLDFLANCM2 - 027 M		4 .000012							
	FTLDFLFTCH1 - 026 M	ILES	1 .000012	.000 .01	· · ·					e de la composición d
	FTLDFLTBCM4 - 926 M	ILES 10								:
1 v.	MIAMFLAFCM1 - 001 M MIAMFLAPDS0 - 006 M	TLES	5 .800012 5 .090012	.000 .01					. •	
	HIAMFLFLDS0 - 003 M Miamflhlds0 - 011 M	ILES	1 .000012	10. 000						
	MIANFLWM26E - 007 M	ILES	000012 .000012 1 .000012							
	MIAMFLYJCHO - 024 M MIAMFLYJCH2 - 024 M	ILES 3 ILES	6 .000012 2 .000012 5 .000012	2008 .01	· .		•	· .		1 T.
	MIANFLYJCMS - 024 M Ndadflbrds0 - 012 M	ILES 8		000 .02						· · · ·
••	NDADFLGGCM4 - 012 M	ILES	6 .000012	.01					•	je s s
	NDADFLGGCM6 - 012 M	ILFS 1	2 .000012 2 .000012							
	NDADFLGGDS0 - 012 M NDADFLGG01T ~ 012 M	TLES		100 .01						
	OJUSFLTLCM1 - 014 M OJUSFLTLCM2 - 014 M	ILES 1	5 .000012	800 .01						
	PMBHFLJKCM2 - 012 M	ILES								
. *	PRRNFLAECM1 ~ 015 M MIAMFLAL63E ~ 004 M	ILES	3 .000012 1 .000012	.01						
	NDADFLGG03T - 012 M ACCESS	ILES 1								
·	TANDEM									
	ORIGINATING NDADFLGG01T - 012 M	ILES 26	B .000012	000 _94		•			· ·	
	TERMINATING NDADFLGG01T - 012 H			••••						
	NDADFLGG04T - 012 M		4 .000912 1 .000012							
	TOTAL UT SHRD TRANS	3,79	-	1.00						

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	I	ILL NO HVOICE NG ILL DATE	305 09 305092 NOV 22;2000 PAGE 59	
* * * * * * * * * LOCAL USAGE FOR OF OCT 22 00 THR			******	•
RATE CATEGORY Q	JANTITY	RATE	AMOLINT	· · ·
UNBUNDLED TRANSPORT FACILITIES TERMIN LOCAL UNDETERMINED ROUTING	NATION EO	1 TO EQ - FL -	EC 5191	
ORIGINATING TANDEM	2,988	.00050000	0 1.49	
ORIGINATING	484	.0005000	.20	
TOTAL UT F TERM E0-E0	3,392		1.69	
UNBUNDLED TRANSPORT FACILITIES TERMI LDCAL TANDEM	NATION ED	TO TANDEM -	FL - EC 5191	·
ORIGINATING ACCESS TANDEM	27	.08050000	10. 01	·
DRIGINATING TERMINATING	298 127	.00050000 .00050000		
TOTAL UT F TERM EO-TAN	452		.22	•
UNBUNDLED TRANSPORT TANDEM SWITCHING LOCAL	- FL - E	C 5191		
UNDETERMINED ROUTING ORIGINATING TANDEM	2,945	.0002900	.85	
ORIGINATING DRIGINATING ACCESS	422 422	.0002900 .0002900		
TANDEM ORIGINATING TERMINATING	298 127	.00029000		
TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CHARGE - FI	3,801 L - EC 51	91	1.11 4.02	-
UNBUNDLED END OFFICE - FL - EC 5191 Unbundled Local Switching - Switchin Local	G FUNCTIO	NALITY		
ORIGINATING ED Single Network Intraswitch				
INITIAL ADDITIONAL	634 2,273	.01750000		
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	* * * * * * * * * LOCAL USAGE FOR	OFFICE MIAMFLGRDS1 *	*****	-		
	OCT 22 00	THRU NOV 21 00	•	• •		
	RATE CATEGORY INTERSWITCH INITIAL	QUANTITY RA 656 .01750				
· .	ADDITIONAL MULTIPLE NETWORK	875 .00500				
1.12	INTERSWITCH INITIAL ADDITIONAL	399 .01750 1,490 .00500				
	TEO SINGLE NETWORK					
1.000	INTERSWITCH INITIAL ADDITIONAL	642 .01750 870 .00500				
	MULTIPLE NETWORK INTERSWITCH				•	
	INITIAL ADDITIONAL ACCESS	195 .01750 1,291 .00500				· · · · · ·
•	ORIGINATING ED				: 	
	HULTIPLE NETWORK INTERSWITCH INITIAL	402 .01750	0000 7.04		• •	
	ADDITIONAL TERMINATING	402 .01750 289 .00500				
	TEO SINGLE NETWORK INTERSWITCH					
:	INITIAL HULTIPLE NETWORK	1 .01750	0000 .92			
	INTERSWITCH INITIAL ADDITIONAL	513 .01750 523 .00500				
	TOTAL ULS - SWITCH FUNC	11,053	98.33			
	TOTAL UNBUNDLED END OFFICE CHARGE UNBUNDLED MISCELLANEOUS - FL - EC		98.33			
1 - 11	FULLY AUTOMATED CALL HANDLED LEC LIDB	3 .10090	9009 .30)		a Marine and Articles and
	TOTAL UNBUNDLED MISCELLANEOUS CHA	RGFS - FL - EC 5191 .		an training tao training tao		
	TOTAL LOCAL USAGE CHARGES FOR OFF		. 109.47		· · ·	
	**************************************	** ******* ***************************	***************************************	****		· · · ·
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15.1				· · · · · · · · · · · · · · · · · · ·		and the second

7 : : :		INV	L DATE NOV 22	61
	* * * * * * * * * LOCAL USAGE 1 JUL 22 (FOR OFFICE MIAMFL	NMDS0 * × * * * *	****
	RATE CATEGORY	QUANTITY	RATE	AHOUNT
	UNBUNDLED TRANSPORT SHARED TRAN ACCESS Tandem Originating NDADFLGG01T - 004 Miles	ISPORT - FL - EC	5191	.01
	MDADILODAXI - VV4 MLC3			
	TOTAL UT SHRD TRANS	38		. 01
	UNBUNDLED TRANSPORT FACILITIES ACCESS TANDEM	TERMINATION EO	TO TANDEN - FL - E	
	ORIGINATING	38	.000500000	.02
	TOTAL UT F TERM ED-TAN	38		.02
	UNBUNDLED TRANSPORT TANDEN SWI ACCESS TANDEM	TCHING - FL - EC	5191	· .
	DRIGINATING	. 38	.000290000	.01
	TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CHAR	38 GE - FL - EC 5191	 L	. 01 . 04
	UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW ACCESS ORIGINATING		ALITY	
	EO MULTIPLE NETWORK Interswitch Initial	15	.017500000	.26
	ADDITIONAL	23	.005000000	.12
	TOTAL ULS - SWITCH FUNC Total unbundled end office cha	RGES - FL - EC 5	191	.38
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BILL DATE	NOV 2232900
	PAGE 62

* * * * * * * * LOCAL USAGE FOR OFFICE MIAMFLNMDS0 * * * * * * * * * * Aug 22 00 Thru Sep 21 00 Aug 22 Thru Sep 06

		KU JET VU	
AMOUNT	RATE	QUANTITY	RATE CATEGORY
. 61		T - FL - EC 1 151	UNBUNDLED TRANSPORT SHARED TRANSPO ACCESS TANDEM ORIGINATING NDADFLGG01T - 004 MILES
.01		151	TOTAL UT SHRD TRANS
- EC 5191	TANDEM - FL - E	INATION EO T	UNBUNDLED TRANSPORT FACILITIES TEL ACCESS TANDEM
. 08	.000500000	151	ORIGINATING
. 08		151	TOTAL UT F TERN EO-TAN
	191	G - FL - EC :	UNBUNDLED TRANSPORT TANDEN SWITCH
.04	.000296000	151	TANDEM ORIGINATING
.04 .13		151 FL - EC 5191	TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CHARGE
	ITY		UNBUNDLED END OFFICE - FL - EC 5: UNBUNDLED LOCAL SWITCHING - SWITCH ACCESS ORIGINATING ED MULTIPLE NETWORK
1.02 .47	.017500000 .005000000	58 94	INTERSWITCH INITIAL ADDITIONAL TERHINATING
.11 .01	.017500000 .00500000	6 1	TEO NULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL
		6 1	INTERSWITCH INITIAL

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RATE CATEGORY	QUANTITY	RATE	AMOUNT
TOTAL ULS - SWITCH FUNC	159		1.61
Total Unbundled end office	CHARGES - FL - EC 5191		1.61

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			NOV 22 32005 PAGE 64		

* * * * * * * * * LOCAL USAGE FOR OFFICE MIAMFLNMDS0 * • AUG 22 00 THRU SEP 21 00 SEP 07 THRU SEP 21

	RATE CATEGORY	QUANTITY	RATE	AMOUNT
	UNBUNDLED TRANSPORT SHARED TRANSPORT ACCESS TANDEM ORIGINATING			
	NDADFLGG01T - 904 MILES	167	.000012000	.01
	TOTAL UT SHRD TRANS	167	. •	.01
·	UNBUNDLED TRANSPORT FACILITIES TER	NINATION EO	TO TANDEM - FL	- EC 5191
	TANDEM	167	.000500000	.08
	TOTAL UT F TERM EO-TAN	167		.08
	UNBUNDLED TRANSPORT TANDEM SWITCHI	NG - FL - EC	5191	
		167	.000298800	.05
۰	TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CHARGE -	167 FL - EC 519	1	.85 .14
	UNBUNDLED END OFFICE - FL - EC 51 UNBUNDLED LOCAL SWITCHING - SWITCH ACCESS ORIGINATING EQ		ALITY	
:	MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL	55 113	. 017500000 . 00500000	.96
• .	TOTAL ULS - SWITCH FUNC TOTAL UNBUNDLED END OFFICE CHARGES	168 - FL - EC 5	191	1.53 1.53

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<pre>* * * * * * * LOCAL US SEP</pre>	AGE FOR OFFICE MIAMFI 22 00 THRU OCT 21 0		****			
TE CATEGORY	QUANTITY	RATE	ANOUNT			
NBUNDLED TRANSPORT SHARED LOCAL UNDETERMINED ROUTING	TRANSPORT - FL - EC	5191	· .			
ORIGINATING MIAHFLAPDS0 - 009 HILE	S 1	.000012000	.01	and a second second		
MIANFLGRDS1 - 009 MILE		.000012000	.01			
MIAMFLHLDSØ - 009 MILE MIAMFLNSDSØ - 006 MILE		.000012000 .000012000	.01 .01			•
MIANFLOL68E - 005 NILE	S. 30	.060812000	.01			a series and the series of the
MIAMFLPB88E - 009 NILE MIAMFLRRDS0 - 015 MILE		.000012000	.01		1 4 1 4 A	
MIANFLSH75E - 004 MILE		.000012000 .000012000	.01 .01			
MIAMFLSODS0 - 019 MILE	Š 1	.000012000	.01		· · ·	
MIANFLWDDS0 - 023 MILE MIANFLYJCM5 - 020 MILE		.000012000 .000012000	.01 .01			
MIANFLWKDS0 - 013 MILE		.000012000	.01			
MIAQFLOGDS0 - 005 NILE		.000012000	. 91			
MIATFLADDS0 - 908 MILE NDADFLAC94E - 903 NILE		.000012000 .000012000	.01			
NDADFLBRDS0 - 006 MILE		.000012000	.01			
NDADFLGGDS0 - 004 NILE		.000012000	.01	· · · · · · · · ·		
NDADFLOLDS0 - 005 MILE OJUSFLTLCM1 - 006 MILE		.000012000 .000012000	.01 .01			
PRRNFLMADSO - 023 MILE	Š 16	.000012000	.01			
MIAMFLAEDSD - 012 MILE	s z	.000012000	.01			
MIAMFLAL63E - 007 MILE TANDEM	5 5	.000012000	.01			
ORIGINATING						
FTLDFLAICHI - 022 MILE		.000012000	- 01			
FTLDFLAMCM2 - 019 MILE FTLDFLHQCH2 - 021 MILE		.000012000 .000012000	.01 .01			
FTLDFLTBCH4 - 018 MILE		.000012000	.0Ī	•		
MIAMFLHLDS0 - 009 MILE MIAMFLPLDS0 - 013 MILE		.000012000	.01			
MIAMFLYJCH2 - 028 MILE		.000012000 .000012000	.01 .01	· · ·		
HIAMFLYJCHS - 020 MILE	Š G	.000012000	. 01			
NDADFLBRDS0 - 006 MILE		.008012080	.91			
NDADFLGGCM4 - 004 MILE NDADFLGG01T - 004 MILE		.000012000 .000012000	.01 .81			
OJUSFLTLCM1 - 006 MILE		.000012000	.01			•
ACCESS			_			
TANDEM ORIGINATING	• •			•		
MDADFLGG01T - 004 MILE	\$ 43	.000012000	.01	· · ·	·	
TERMINATING						
NDADFLGG017 - 004 MILE	S 14	.000012000	.01			· · · · · · ·
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× * * * * * * * * LOCAL USA(SEP :	E FOR OFFICE MIANF	LNMDS0 * * * * * * 0	****	
RATE CATEGORY	QUANTITY	RATE	AMOUNT	
TOTAL UT SHRD TRANS	285	: 	.36	· · · ·
UNBUNDLED TRANSPORT FACILIT	LES TERMINATION EO	TO EO - FL - EC 53	.91	· .
UNDETERMINED ROUTING ORIGINATING TANDEM	177	.000500000	.09	- •
ORIGINATING	30		- 82	
TOTAL UT F TERM EO-EO	207	-	.11	
UNBUNDLED TRANSPORT FACILIT: LOCAL TANDEM	LES TERMINATION EO	to tandem - FL - E	C 5191	· ·
ORIGINATING ACCESS TANDEM	4	.000500000	.01	
ORIGINATING TERNINATING	43 14	.000500000 .000500000	.02	· · · ·
TOTAL UT F TERM EO-TAN	61		.04	
UNBUNDLED TRANSPORT TANDEM : LOCAL	SWITCHING - FL - EC	5191		
UNDETERMINED ROUTING	177	.000290000	. 05	
ORIGINATING	4	.000290000	.01	
	30	.000290800		

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		O THRU OCT 21 0	U	· .
	RATE CATEGORY	QUANTITY	RATE	AMOUNT
	UNBUNDLED END OFFICE - FL - EC UNBUNDLED LOCAL SWITCHING - SWI LOCAL ORIGINATING EO	: 5191 TCHING FUNCTION	ALITY	. • •
	SINGLE NETWORK			
	INTRASWITCH INITIAL	F	.017500008	. 09
·	ADDITIONAL	5	.005380000	.07
	INTERSWITCH	· · · · · · · · · · · · · · · · · · ·		
	INITIAL ADDITIONAL	56 90	.017500000	.98
	MULTIPLE NETWORK			. 75
•	INTERSWITCH			
	INITIAL ADDITIONAL	27 38	.017500000 .00500000	.47
	TEO			
	SINGLE NETWORK INTERSWITCH	1	* <i>1</i>	- · ·
	INITAL	56	.017500000	. 98
	ADDITIONAL	90	.005000000	.45
	MULTIPLE NETWORK INTERSWITCH			
	INITIAL	6	.017500000	.11
	ADDITIONAL ACCESS	30	.005008900	.15
	ORIGINATING	· · ·		
	EO Multiple network			
	INTERSWITCH			
	INITIAL ADDITIONAL	38 73	.017500000 .005000000	.67
	TERMINATING	73	.005000000	.37
· · ·	TEO			•
- 1	MULTIPLE NETWORK INTERSWITCH			
	INITIAL	48	.017500000	.84
	ADDITIONAL	105	.89200000	.53

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		BILL NO INVOICE NO BILL DATE	305 3050 NOV 22,2000 PAGE 68	
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* * * * * * * * * LOCAL US	AGE FOR OFFICE MI	AMFLNMDSO * *	****	
	22 00 THRU NOV 2			
RATE CATEGORY	QUANTITY	RAT	E AMOUN	r
UNBUNDLED TRANSPORT SHARED	TRANSPORT - FL -	EC 5191		
LOCAL				•
UNDETERMINED ROUTING ORIGINATING				
FTLDFLTBCN4 - 018 MILE		.008012	10. 000	
FTLDFLWADS1 - 016 MILE		.000012		
FTLDFL92DS0 - 003 MILE		.000012		
MIAMFLAEDS0 - 012 MILE	S 28	.000012		
MIANFLAFCH1 - 009 MILE		.000012	600	
MIANFLAL63E - 007 MILE		.000012		
MIAMFLBA85E - 011 MILE MIAMFLBCDS0 - 807 MILE		.000012		
MIAMFLBCDS0 - 007 MILE MIAMFLBRDS0 - 008 MILE				
MIANFLCADSO - 016 MILE		.000012		
MIAMFLDADSA - 009 MILE		.000012		
MIAMFLGRDS1 - 009 MILE		.000012		
MIAMFLHLDS0 - 009 MILE		.800012		
MIANFLICDS0 - 005 MILE		.000012		
MIANFINSDSO - 006 MILE				
MIANFLOL68E - 005 MILE NIAMFLPB88E - 009 MILE				
MIAMFLPLDS0 - 013 MILE				
MIANFLARDSO - 015 MILE				
MIANFLSH75E - 004 MILE				
MIAMFLSODSO - 019 MILE				
MIAMFLWODSO - 023 MILE				
MIANFLWM26E - 012 MILE		.000012		
MIANFLYJCM2 - 020 MILE Mianflyjcm5 - 020 Mile		.000012		
MIANFLPVDS0 - 013 MILE				
MIANFLWKDSO - 013 MILE		.000012		
MIAQFLO6DSO - 005 MILE	S 311	.000012		
MIATFLADDS0 - 008 MILE		.000012	008 .20	
NDADFLAC94E - 003 MILE				
NDADFLBRDSO - 006 MILE				
NDADFLGGCM4 - 004 MILE NDADFLGGCM5 - 004 MILE		.000012		
NDADFLGGDS0 - 004 MILE	\$ 195	.000012 .000012		
NDADFLGG1KD - DO4 MILE		.000012		
NDADFLOLDS0 - 005 MILE	\$ 34	.000012		
PRRNFLMADSO - 023 MILE		.000012	000 .06	
COCYFLIODS1 - 006 MILE				
FTLDFLANCH2 - 019 MILE TANDEM	S 6	.000012	10. 000 .al	

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		INVO	L NO 305 0 DICE NO 305Q L DATE NOV 2 DATE NOV 2	22,2000		· ·	
	* * * * * * * * * 10CAL USAGE DCT 22	FOR OFFICE MIANFLN 00 THRU NOV 21 00	MDS0 × × × × ×	****			
	PATE CATEGORY	QUANTITY	RATE .000012000	ANOUNT			
· ·	FTLDFLATCH1 ~ 022 HILES FTLDFLANCH2 - 019 HILES FTLDFLFTCH1 - 018 HILES FTLDFLFTCH1 - 018 HILES FTLDFLTBCH4 - 018 HILES HTLDFLTBCH4 - 018 HILES	89 3 1	.000012000 .000012000 .000012000	.01 .02 .01		· · ·	
· '.	MIANFLAPDS0 - 009 MILES	34 6 8	.000012000 .000012000 .000012000	.01 .01 .01 .01	· · · ·		
· .	MIAMFLHLDS0 - 009 MILES MIAMFLPLDS0 - 013 MILES MIAMFLWH26E - 012 MILES MIAMFLYJCH2 - 020 MILES MIAMFLYJCH5 - 020 MILES	7 2 1 15	.009012000 .000012000 .000012000	-01 .01		· . · ·	n en 19 a julio en la constanta de la constant Constanta de la constanta de la
	HIAMFLYJCHS - 020 MILES MIAMFLYJCHS - 020 MILES NDADFLBRDS0 - 004 MILES NDADFLGGCH5 - 004 MILES NDADFLGGCH5 - 004 MILES	156	.000012000 .000012000 .000012000	.01 .01 .04 .01	· .	· ·	
	RUAUFLGGUNG ~ 1004 WTLFS	163 163 40 22 83 17	.000012000 .000012000 .000012000	.01 .01 .81			
	NDADFLGGDS0 - 004 HILES NDADFLGG01T - 004 HILES DJUSFLTLCM1 - 006 HILES PMBHFLJKCM2 - 006 HILES	85 17 2	.000012000 .000012000 .000012000	.01 .01 .61 .01			an an tagan an
	DJUSFLTICHI - 006 HILES PMBHFLJKCM2 - 006 MILES PRRNFLAECHI - 022 MILES NDADFLGG03T - 004 MILES ACCESS	2 1 1	.000012000 .000012000 .000012000	.01 .01 .01		•	
	TANDEM Originating _NDADFLGG01T - 004 Miles	724	.000012000	ń 7			
	TERMINATING NDADFLGC011 - 004 MILES NDADFLGC04T - 004 MILES	521 1	.000012000	.03 .02 _01			
	TOTAL UT SHRD TRANS	 6,497		.99		· .	jin sana si si si s
	UNBUNDLED TRANSPORT FACILITIES		EO - FL - EC E	J 191			
· ·	UNDETERMINED ROUTING ORIGINATING	4,575	· · · ·	•	an a	· ·	
	TANDEM ORIGINATING	-575 564	.009500000 .000500009	2.29	-		
	TOTAL UT F TERM EO-EO	5,139		2.57			
	UNBUNDLED TRANSPORT FACILITIES		TANDEM - FL -		· .		
	TANDEM ORIGINATING	84	. 000500000		· ·		······································
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	INVOICE NO 305	22,2000			
* * * * * * * * LOCAL USAGE FOR OFFICE MI OCT 22 00 THRU NOV 2	AMFLNMDSO × × × × 1 00	* * * * * *			
RATE CATEGORY QUANTITY	RATE	AHOUNT			
TANDEM DRIGINATING 724 TERMINATING 521	.000500000	.36 .26			
TOTAL UT F TERM EO-TAN 1,329		.66			
LOCAL	EC 5191				
UNDETERMINED ROUTING ORIGINATING 4,575	.000290000	1.33			
TANDEM ORIGINATING 83 ORIGINATING 565 ACCESS	.000290600 .000290000	.02 .16			
TANDEN ORIGINATING 724 TERMINATING 521	.000290000 .000290000	.21 .15			
TOTAL UT TANDEM SW 6,468 TOTAL UNBUNDLED TRANSPORT CHARGE - FL - EC	5191	1.87 6.89			
UNBUNDLED END OFFICE - FL - EC 5191 UNBUNDLED LOCAL SWITCHING - SWITCHING FUNCT	IONALITY	•	· · ·		
LOCAL ORIGINATING E0		•			
SINGLE NETWORK INTRASWITCH INITIAL 98 ADDITIONAL 220	- 017500000 . 005090000	1.72	· .	· .	
INTERSWITCH INITIAL 679	.017500000	11.88			·
ADDITIONAL 1,578 MULTIPLE NETWORK	.005600000	7.89			
INTERSWITCH INITIAL 358 ADDITIONAL 2,609 TEO	.017500000 .005800000	6.27 13.05		.:	
SINGLE NETWORK INTERSWITCH INITIAL 678 ADDITIONAL 1,578	.017500000	11.87			
HULTIPLE NETWORK INTERSWITCH INITIAL 120	.017500000	2.10		· .	

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* * * * * * * * * LOCAL USA OCT	GE FOR OFFICE MIAMF 22 00 THRU NOV 21 0	LNMDSO ¥ ¥ ¥ ¥ ¥ Q	• * * * *
RATE CATEGORY ADDITIONAL ACCESS ORIGINATING E0	QUANTITY 2,283	RATE .005000000	AMDUNT 11.42
MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL TERMINATING TEO	443 978	. 017500000 . 095000000	7.75 4.89
MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL	929 1,240	.017500000 .005000000	16.26 6.20
TOTAL ULS - SWITCH FUNC TOTAL UNBUNDLED END OFFICE	13,791 CHARGES ~ FL ~ EC 5	191	110.29 110.29
TOTAL LOCAL USAGE CHARGES F	OR OFFICE MIANFLIND	so	127.13

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BILL NO INVOICE NO BILL DATE	305 092 3050924 NOV 22,2000 PAGE 72			· ·		· · ·

RATE CATEGORY	QUANTITY	RATE	AMOUNT
UNBUNDLED TRANSPORT SHAR ACCESS TANDEM	RED TRANSPORT - FL - EC	5191	: *
ORIGINATING NDADFL cco it — 008 Mi	ILES 1	.000012800	.01
TOTAL UT SHRD TRANS	1		.01
UNBUNDLED TRANSPORT FACI ACCESS TANDEM	ILITIES TERMINATION ED	TO TANDEN - FL - I	C 5191
ORIGINATING	1	.000500000	.81
TOTAL UT F TERH EO-TAN	1		.01
UNBUNDLED TRANSPORT TAND Access Tandem	DEM SWITCHING - FL - EC	5191	•
ORIGINATING	1	.000290000	.01
TOTAL UT TANDEM SW Total unbundled transpor	RT CHARGE - FL - EC 519		.01 .03
UNBUNDLED END OFFICE - UNBUNDLED LOCAL SWITCHIN ACCESS ORIGINATING	FL - EC 5191 NG - SWITCHING FUNCTION	MALITY	
ED MULTIPLE NETWORK INTERSWITCH INITIAL	1	.017500000	.02
TOTAL ULS - SWITCH FUNC TOTAL UNBUNDLED END OFFI	ICE CHARGES - FL - EC E	5 191 .	.02 .02
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BILL DATE	NOV 22,2000 PAGE 73

	RATE CATEGORY	QUANTITY	RATE	AHOUN
÷	UNBUNDLED TRANSPORT SHARED TRANSPO	RT - FL - EC	: 5191	··· · · ·
÷.	TANDEM Originating NDADFLGG01T - 008 Miles	16	.000012000	
	TOTAL UT SHED TRANS	16		.01
•	UNBUNDLED TRANSPORT FACILITIES TER	MINATION EO	TO TANDEM - FL - E	SC 5191
	TANDEM ORIGINATING	16	.000500000	.01
	TOTAL UT F TERM EO-TAN	16		. 01
	UNBUNDLED TRANSPORT TANDEM SWITCHI ACCESS	NG - FL - EC	5191	÷ .
	TANDEM ORIGINATING	16	.000290000	.01
:	TOTAL UT TANDEM SN	16		.01
	TOTAL UNBUNDLED TRANSPORT CHARGE -	FL - EC 519	21	- 03
	UNBUNDLED END OFFICE - FL - EC 51 UNBUNDLED LOCAL SWITCHING - SWITCH ACCESS		MALITY	
	ORIGINATING EQ			•
	MULTIPLE NETWORK INTERSWITCH			
	INITIAL ADDITIONAL	8 9	.017500000 .005000000	.14 .05
	TOTAL ULS - SWITCH FUNC	17		.19

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TOTAL UT SHRD TRANS	54			.01
UNBUNDLED TRANSPORT FACILITIE	ES TERMINATION EQ TO 1	FANDEM - FL	- EC 5191	
TANDEM DRIGINATING	54	.000500000		.03
TOTAL UT F TERM EO-TAN	54			. 03
UNBUNDLED TRANSPORT TANDEN SU	AITCHING - FL - EC 519	91	•	
TANDEM ORIGINATING	54	.000290000		. 02
TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CH	54 ARGE - FL - EC 5191			.02 .06
UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S		гү		
ACCESS ORIGINATING ED				
MULTIPLE NETWORK INTERSWITCH				
INITIAL ADDITIONAL		.017500090 .005000000		.23 .21
TOTAL ULS - SWITCH FUNC Total unbundled end office ci	55 HARGES - FL - EC 5191		·	.44 .44

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	RATE CATEGORY	QUANTITY	RATE	AMOUNT	
· :	UNBUNDLED TRANSPORT SHARED TRA ACCESS TANDEM	NSPORT - FL - EC	5191		•
	ORIGINATING NDADFLGGOLT - 008 MILES	68	.000012000	.01	· . ·
÷.	TOTAL UT SHRD TRANS	68		.01	
. **	UNBUNDLED TRANSPORT FACILITIES	TERMINATION ED	TO TANDEM - FL - E	C 5191	
	TANDEH ORIGINATING	68	.000500000	. 03	
	TOTAL UT F TERM EQ-TAN	68		,03	
	UNBUNDLED TRANSPORT TANDEN SHI ACCESS TANDEM	TCHING - FL - EC	5191		
	ORIGINATING	68	.000290000	.02	- :
· . ´.	TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CHAR	68 GE - FL - EC 519	1	.02 .06	
	UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW ACCESS ORIGINATING EQ	C 5191 ITCHING FUNCTION	ALITY		
	MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL	12 57	.017500000	.21	

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RATE CATEGORY	QUANTITY	RATE	AMOUNT		·	•
UNBUNDLED TRANSPORT SHARED TRAN	ISPORT - FL - EC 5	3.91		· · ·	· · · ·	
LOCAL UNDETERMINED ROUTING						
ORIGINATING FTLDFL92DS0 - 008 MILES	3	.000012008	.61			· · · ·
HLWDFLWHDSO - 012 NILES	. <u>î</u>	.000012800	.01		,	
HIAMFLAL63E - 003 MILES Niamflapds0 - 004 miles	8	.000012000	.01 .81			
MIANFLBA85E - 007 MILES	š	.000012000	.01			
MIANFLBCDS0 - 004 MILES	1	.000012000	.01			
MIAMFLCADSO - 011 MILES Niamfldadso - 006 miles	1	.000012000	.01			
MIAMFLEURDSO - 006 MILES	1	.000012000 .000012000	.01 .01			
MIAMFLORDS1 - 006 HILES	88	.000012000	.01			
MIANFLHLDSO - 006 MILES MIANFLICDSO - 008 MILES	14	.000012000 .000012000	.01 .01			
MIANFLME32E - 004 MILES	3	.000012000	.01			
MIANFLNNDSO - 006 HILES HIANFLOL68E - 004 HILES	4	.000012000	.01			
NIAMFLOLGOE - 004 MILES	4	.000012000 .000012000	.01 .01			
MIAMFLPLDS0 - 008 MILES	9	.000012000	.01			
MIAMFLSH75E - DO3 MILES MIAMFLWDDSD - O17 MILES	14	.000012000 .000012000	.01 .01		× .	
MIAMFLYJCM5 - 019 MILES	32	.000012000	.01			
NDADFLAC94E - 008 MILES	4	.000012000	.01			
NDADFLBRDS0 - 007 MILES NDADFLGGDS0 - 008 MILES	38 19	.000012000 .000012000	.01			
PRRNFLMADSO - 018 MILES	ź	.000012000	.01			
FTLDFLANCM2 - 022 MILES	,1	.000012000	.01			
FTLDFLPLDS0 - 020 MILES TANDEM	10	.000012000	.01			· · · ·
ORIGINATING						
BCRTFLSNCH1 - 036 MILES	1	.000012000	.01			
FTLDFLAICM1 - 026 NILES FTLDFLANCM2 - 022 NILES	· <u>1</u>	.000012000 .000012000	.01 .01	+ 11 × 1		
FTLDFLTBCH4 - 022 MILES	31	.000012000	.oi	•		
MIANFLAFCM1 - 006 MILES NIANFLAPDS0 - 004 MILES	11	.000012000	.01			
MIANFLBA85E - 007 MILES	1	.000012900 .000012000	.01 .01			
MIAMFLHLDSQ - 006 MILES	ī	.000012000	.01			· · · · · · · · · · · · · · · · · · ·
MIAMFLPLDS0 - 008 MILES	1	.000012000	.01			
MIANFLWM26E - 007 MILES Hiamflyjch5 - 019 Niles	2	.000012000 .000012000	.01 .01			
NDADFLGGCH4 - 008 MILES	ĩ	.000012000	.01			
NDADFLGGCM5 - 008 MILES NDADFLGG01T - 008 MILES	8 2	.000012000 .000012000	.D1 .81			

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			IN	LL NO 30 VOICE NO 30 LL DATE NO PA	5 09 5092 V 22,2000 GE 77	· · · · · · · · · · · · · · · · · · ·				
		* * * * * * * * * LOCAL USAG	E FOR OFFICE MIAME 2 00 THRU OCT 21 0	LNSDSO × • × ×	* * * * * *		<i>.</i> '			
		RATE CATEGORY DJUSFLTLCM1 - 011 MILES PRRNFLAECM1 - 017 MILES MIAMFLFLDS0 - 006 MILES NDADFLGG03T - 008 MILES	QUANTITY 5 56 1 5	RATE . 600012000 .000012000 .000012000 .000012000	AMOUNT .01 .01 .01 .01	· ·	• • • • •	• • • • •	; ;	
		ACCESS TANDEM Originating NDADFLGG01T - 008 Miles	107	.006012000	. 61	· · · ·				
	÷.:.	TERMINATING NDADFLGG01T - 008 MILES NDADFLGG04T - 008 MILES	38 2	.000012000 .000012000	. 01 . 01		•	·*.	. •	
		TOTAL UT SHED TRANS	540		.47					
	4	UNBUNDLED TRANSPORT FACILIYI LOCAL UNDETERMINED ROUTING ORIGINATING TANDEM ORIGINATING	ES TERMINATION EO 237 131	TO ED - FL - E .080500900 .000500000	c 5191 .12 .07		4			
	÷.	TOTAL UT F TERM EQ-ED	368		.19		4. ¹			
	. [.]	UNBUNDLED TRANSPORT FACILITI LOCAL TANDEM ORIGINATING ACCESS	ES TERMINATION ED	TO TANDEM - FL	EC 5191 .01				÷	
		TANDEM ORIGINATING TERHINATING	107 40	.000580000 .000500000	.05 .02					
	·· .	TOTAL UT F TERM ED-TAN	153		.08					
		UNBUNDLED TRANSPORT TANDEM S LOCAL UNDETERMINED ROUTING ORIGINATING	WITCHING - FL - EC 237	.008290000	- 97	ut.		· .		
lavir strant	۰.	TANDEM ORIGINATING DRIGINATING ACCESS	2 135	.000290000 .000290000	.01 .04	۰.			a a sa ta	
	÷.,	TANDEM ORIGINATING	107	.080290800	. 03					• • • • •
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RATE CATEGORY TERMINATING	QUANTITY 40	RATE . 000290000	AHOUNT
TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CI	521 HARGE - FL - EC 519		.16 .90
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL	EC 5191 SWITCHING FUNCTION	ALITY	
ORIGINATING	· ·		•
EO SINGLE NETWORK INTRASWITCH		·	
INITIAL	17	.017500000	.30
ADDITIONAL	30	.005000000	.15
INTERSWITCH Initial	85		
ADDITIONAL	155	.017500080 .005000000	1.49
MULTIPLE NETWORK			-10
INTERSWITCH			
INITIAL Additional	39	-017500000	. 68
TEO	95	.005000000	.48
SINGLE NETWORK	an far an		and the second
INTERSWITCH			
INITIAL		.017500000	1.42
ADDITIONAL MULTIPLE NETWORK	155	.005000000	.78
INTERSWITCH		·. ·	· · ·
INITIAL	3	.017500900	.05
ADDITIONAL	ĭ	.005000000	.05
ACCESS	· · ·		
ORIGINATING Fo			
MULTIPLE NETWORK			
INTERSWITCH			
INITIAL	81	.017500000	1.42
ADDITIONAL	148	.005000000	.74
TERMINATING			
TEO MULTIPLE NETWORK			· · · .
INTERSWITCH			
INITIAL	- 68	.017500000	1.19

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* * * * * * * * * * LOCAL S	EP 22 00 THRU OCT 21 00	12020 * * * *	*****	· · ·		
RATE CATEGORY	QUANTITY	RATE	ANOUNT			
TOTAL ULS - SWITCH FUNC TOTAL UNBUNDLED END OFFI	1,075 CE CHARGES - FL - EC 519	91	18.08			
UNBUNDLED MISCELLANEOUS EMERGENCY INTERRUPT	- FL - EC 5191 1	1.000000000	1.00			
TOTAL UNBUNDLED MISCELLA	NEOUS CHARGES - FL - EC	5191	1.00		•	

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	RATE CATEGORY		QUANTITY	RATE	AMOUNT			
	UNBUNDLED TRANSPOR	T SHARED TRANSPO	DRT - FL - EC	51.91	· · :		:	and the second second
· .	LOCAL	•		- .	<u>.</u>			
	UNDETERMINED ROU ORIGINATING	n ing						
	FTLDFLAMCM2 -	877 MTI ES	9	.000012000	.01			
	FTLDFLJADS0 ~		22	.000012000	.01	· ·	· · ·	
	FTLDFLPLDS0 -			.080012000	.01			
	FTLOFLTBCH1 -	022 MILES	2153	.000012000	.01			
	FTLDFLTBCM4 -	022 MILES	. 5	.900012000	.01			
	FTLDFLWADS1 -		3	.000012000	.01			
	FTLDFL92DS0 -	008 MILES	22	.000012000	.01			
	HLWDFLWHDS0 -		22 13	.000012000	.01			
	HMSTFLHMDSD -		5	.000012000	.01			•
	MTAMFLAEDSO -	007 HILES	58	.000012000	.01			
	MIAMFLAFCH1 -		_ 1	.000012000	.01			
		003 MILES	199	.000012000	.01			
	MIAMFLAPDSO ~		19	.000012000	.01			
• •	MIANFLBA85E - MIANFLBCDS0 -		24	.000012000	.01	· .	•	
	MIAMFLBRDS0 -		10 12	.000012000	.01			
	MIANFLCADS0 ~		169	.000012000	.01			
	MIAMFLOBRS1 -		4	.000012000 .000012000	.02 .01			+
	MIAMFLFLDS0 -		75	.000012000	.01	· .		
	MIAMFLGRDS0 -		4	.000012000	.01			
	MIAMFLGRDS1 -		4,064	.000012000	.29			
	MIAMFLHLDSO -		300	.000012000	.02	•		
	MIAMFLICDS0 -		228	.000012000	.02	· ·		
	MIAMFLKEDSO -	012 HILES	ĭ	.000012000	.01			
	MIAMFLME32E -	004 MILES	30	.000012000	.01			
		006 MILES	60	.000012000	.91			
	MIAHFLOL68E -		340	.800012000	.02			
	MIANFLPB88E -		135	.000012000	.01			
	MIAMFLPLDS0 -		127	.000012000	.01			
· ··	MIAMFLRRUSO ~		24	.000012000	.01			
		003 MILES	240	.008012000	- 01			
	MIAMFLSODS0 -		71	.000012000	.01			
		017 MILES	11	.000012000	. •1			
	MIAMFLWM26E ~ MIAMFLYJCM5 -	019 MILES	62 48	.000012000	. 01			-
	MIANFLPVDS0 -			.809012000	.01			•
	MIANFLWKDS0 -		1,311	.000012000 .000012000	.01 .13			
	MIANFLYIDSS -		1,311	.000012000	.01			
۰.	MIANFLYIDS6 -		26	.000012000	.01			
· · · ·	MIAPFLYODSO -		19	.000012000	.01		· ·	•
	MIAOFLOODS0 -		ĺó	.000012000	.01			
	MIASFL68DS0 -		2	.000012000	.01			

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BTIL MA	705 07
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	LUDE OT

E CATEGORY QUANTITY NDADFLAC94E 008 MILES 87 NDADFLBRDS0 007 MILES 550 NDADFLGCM4 008 MILES 2 NDADFLGCM4 008 MILES 3 NDADFLGCM5 008 MILES 3 NDADFLGCM5 008 MILES 364 NDADFLGCMD0 010 MILES 16 PMBHFLEDDS0 022 MILES 3 PMBHFLEDDS0 022 MILES 3 PMBHFLEDDS0 018 MILES 59 COCYFLIDDSI 007 MILES 1 DRBHFLMADS0 034 MILES 1 ANGEM 1 1	RATE .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000	AMOUNT .01 .05 .01 .01 .03
NDADFLAC94E 008 NILES 87 NDADFLBRDS0 007 NILES 550 NDADFLGGCM4 008 MILES 2 NDADFLGGCM5 008 MILES 3 NDADFLGGDS0 008 MILES 364 NDADFLGGIKD 008 MILES 25	.000012000 .000012000 .000012000 .000012000 .000012000	.05 .01 .01
NDADFLGGCN5 - 008 MILES 2 NDADFLGGCN5 - 008 MILES 3 NDADFLGGDS0 - 008 MILES 364 NDADFLGGDS0 - 008 MILES 25	.000012000 .000012000 .000012000 .000012000	.01
NDADFLGGCNS - 008 MILES 2 NDADFLGGDS0 - 008 MILES 364 NDADFLGGIKD - 008 MILES 25	.000012000 .090012000 .000012000	.01
NDADFLGGDXD - 008 MILES 364 NDADFLGGDXD - 008 MILES 25	.000012800 .000012000	.01
NDADFLGGIKD - 008 MILES 25	.000012000	03
MUADELGGIRD - VUG MILES 25		
		.01
NDADFLOLDSO - 010 MILES 16		.01
PHBHFLEDDSO - 022 MILES 3 PMBHFLEDOKD - 022 MILES 7 PMBHFLJKCM2 - 008 MILES 3	.000012000	.01
PNBHFLJKCH2 - 908 NTLES	.000012000	.01
PRRNFLMADSO - 018 MILES 59	.000012000	.01
COCYFLIODSI ~ 007 MILES 2	.000012000	-01
DRBHFLMADSO - 034 MILES 1	.000012000	.01
ANDEM	.000012000	. 01
ORIGINATING		
BCRTFLSNCM1 - 036 MILES 6		
FTLDFLAICH1 - 026 MILES 2	.000012000	.01
FTLDFLANCH2 ~ 022 MILES 74	.000612080	.01
FTLDFLFTCM1 - 622 MILES 1	.000012000	.02
FTLDFLHQCM2 - 025 MILES 4	.000012000	-01
FILDFLINUNZ TOZO MILES 4	.000012000	. 01
FTLDFLTBCM4 - 022 MILES 77	.000012000	.02
MIANFLAFCHI - 006 MILES 43	.000012000	.01
MIAMFLAPDSO - 004 MILES 11	.000012000	.01
MIAMFLBA85E - 007 MILES 3	.000012000	.01
MIAMFLELDSO - DOG HILES 1	.000012000	-01
MIAMFLHLDSO - 006 MILES 15	.000012000	.01
MIAMFLNHDSO - 006 MILES 1	.000012000	- 01
MTAMFLPB88E - 004 MILES 1	.000012000	.01
MTAMFLPLDSO - 008 MILES 9	.000012000	.91
MIAMFLWM26E - 007 MILES 47	.000012000	.01
MIAMFLYJCHO - 019 MILES 1	.000012009	.01
MIAMFLYJCH2 - 019 MILES 7	.000012000	.01
MIAMFLYJCM5 - 019 MILES 78	.000012000	.02
NDADFLBRDS0 - 007 NILES 1	.000012000	. 01
NDADFLGGCM4 - 008 MILES 16	.000012000	.01
NDADFLEGCHS - 008 MILES 68	.000012000	.01
NDADFLGGCH6 - 008 MILES 4	.000812000	.01
NDADFLGGDSD - 008 MILES 4	.000012000	.01
ANDEN ORIGINATING BCRTFLSNCH1 - 036 MILES 6 FTLDFLAICM1 - 026 MILES 2 FTLDFLANCM2 - 022 MILES 1 FTLDFLFTCN1 - 022 MILES 1 FTLDFLFTCN1 - 022 MILES 4 FTLDFLFTCN1 - 022 MILES 77 MIANFLAFCN1 - 006 MILES 43 MIANFLAFCN1 - 006 MILES 11 MIANFLBASSE - 007 MILES 3 MIANFLFLDS0 - 006 MILES 15 MIANFLFLBS0 - 006 MILES 15 MIANFLPBASE - 007 MILES 1 MIANFLPBASE - 007 MILES 1 MIANFLVDS0 - 006 MILES 1 MIAMFLVDS0 - 006 MILES 1 MIAMFLVDS0 - 006 MILES 1 MIAMFLVJCM2 - 019 MILES 1 MIAMFLVJCM5 - 019 MILES 1 MIAMFLYJCM5 - 019 MILES 1 MIAMFLYJCM5 - 019 MILES 1 MIAMFLSCCM5 - 008 MILES 1 MDADFLGSCM5 - 008 MILES 4 MDADFLGSCM5 - 008 MILES 4 MDADFLGSCM5 - 008 MILES 58 OJUSFLTLCM1 - 011 MILES 11 PRNFELJKCM2 - 008 MILES 3	-000012000	.01
OJUSFLTLCH1 - 011 MILES 111	.000012000	. 01
PMBHFLJKCH2 - 008 HILES 3	.600012000	.01
	.000012000	- 98
MIAHFLOL68E - 004 MILES 1	.000012000	.01
NDADFLGGDS0 - 008 NILES 1 NDADFLGG03T - 008 MILES 22	.000012000 .000012080	.01 .01

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		: •	BILL NO INVOICE NO BILL DATE	305 0 30599 Nov 22,2000 Page 82
	* * * * * * * * * LOCAL USAGE F OCT 22 0	OR OFFICE MIA	MFLNSDS0 × *	*****
	RATE CATEGORY	QUANTITY	RATE	AMOL
· .	UNDETERMINED ROUTING ORIGINATING		· ·	
	NDADFLGGDS0 - 008 MILES TANDEM ORIGINATING	1	.0000120	90 .1
•	NDADFLGG01T - 008 MILES TERMINATING	1,124	-0000120	
• .	NDADFLGG01T - 008 MILES NDADFLGG04T - 008 MILES	863 36		
	TOTAL UT SHRD TRANS	12,011		1.
• •	UNBUNDLED TRANSPORT FACILITIES LOCAL UNDETERMINED ROUTING	TERMINATION I	EO TO EO - FL	- EC \$191
	ORIGINATING	875, 8	.0005000	60 4.
• .	DRIGINATING ACCESS	989	.0005000	co .
21.	UNDETERMINED ROUTING ORIGINATING	1	. 9885090	08 .
	TOTAL UT F TERM EO-EO	9,865		
	UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM	TERMINATION 1	EO TO TANDEN -	FL - EC 5191
•	ORIGINATING ACCESS	79	. 0085000	0G .
	TANDEM ORIGINATING TERMINATING	1,124 898		
	TOTAL UT F TERM EQ-TAN	2,101		 1.
.	UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM	TERMINATION	tops to eo - f	L - EC 5191
	ORIGINATING	. 1	.0005000	oo .
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RATE CATEGORY	QUANTITY	RATE	AMOUNT					
		KALE						
TOTAL UT F TERM TOPS-EO	1		.01		•	•		
UNBUNDLED TRANSPORT TANDEM S	WITCHING ~ FL - EC	5191						
UNDETERMINED ROUTING ORIGINATING	8,875	.400290000	2.57			· · ·		
TANDEM ORIGINATING	-58	.000290000						
ORIGINATING	1,010	.000290000	. 02			•	÷ .	
UNDETERMINED ROUTING ORIGINATING	1	A1.400.455						
TANDEM ORIGINATING	· · · · · · · · · · · · · · · · · · ·	.080298908	.91				2000 - 1990 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 -	
TERMINATING	1,124 898	.000290800 .009290000	.33 .26					
TOTAL UT TANDEM SW								
TOTAL UNBUNDLED TRANSPORT CH	11,966	n '	3.48					·· · · ·
TOTAL CADORDEED TRANSFORT OIL	WWAC - L - CC 217	L	11.14					
UNBUNDLED FND OFFTCE - FL -	FC 5191		11.14					· · · ·
UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - LOCAL	FC 5191		11.14	 	· . ·	·		
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EQ	FC 5191		11.14	· · · · ·	·			
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EQ SINGLE NETWORK INTRASWITCH	FC 5191		11.14		· . ·			
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INTITAL ADDITIONAL	EC 5191 SWITCHING FUNCTION 370	ALITY .017500060	6.48		·		. · ·	
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH	EC 5191 SWITCHING FUNCTION 370 294	ALITY .017500000 .005000000	6.48 1.47				•	an a
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INTIAL ADDITIONAL INTERSWITCH INTIAL ADDITIONAL	EC 5191 SWITCHING FUNCTION 370	ALITY .017500060	6.48				. · · ·	
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINCLE NETWORK INTRASWITCH INTIAL ADDITIONAL INTERSWITCH INTITAL ADDITIONAL MULTIPLE NETWORK INTERSWITCH	EC 5191 SWITCHING FUNCTION 370 294 1,459 6,057	ALITY .017500860 .005000000 .017500000 .005000000	6.48 1.47 25.53 30.29					ng se status etc. transform transform
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTERAL ADDITIONAL INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH	EC 5191 SWITCHING FUNCTION 370 294 1,459	ALITY .017500860 .005000000 .017500000	6.48 1.47 25.53		• . •			
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH	EC 5191 SWITCHING FUNCTION 370 294 1,459 6,057 613	ALITY .017500000 .005000000 .017500000 .005000000 .017500000	6.48 1.47 25.53 30.29 10.73					
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL NULTIFLE NETWORK INTERSWITCH INITIAL ADDITIONAL TEO SINGLE NETWORK INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH	EC 5191 SWITCHING FUNCTION 370 294 1,459 6,057 613 1,814 1,442	ALITY .017500000 .005000000 .017500000 .017500000 .017500000 .017500000	6.48 1.47 25.53 30.29 10.73 9.07 25.24					
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INTIAL ADDITIONAL NULTIAL ADDITIONAL NULTIAL ADDITIONAL TEO SINGLE NETWORK INTERSWITCH	EC 5191 SWITCHING FUNCTION 370 294 1,459 6,057 613 1,814	ALITY .017500000 .005000000 .017500000 .017500000 .017500000	6.48 1.47 25.53 30.29 10.73 9.07					
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTERSWITCH INITIAL ADDITIONAL MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL TEO SINGLE NETWORK INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH	EC 5191 SWITCHING FUNCTION 370 294 1,459 6,057 613 1,814 1,442	ALITY .017500000 .005000000 .017500000 .017500000 .017500000 .017500000	6.48 1.47 25.53 30.29 10.73 9.07 25.24					

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* * * * * * * * LOCAL USAGE OCT 22	FOR OFFICE MIAME								
RATE CATEGORY	QUANTITY	RATE	AMOUN						
ACCESS									
ORIGINATING		•							
EO	•								
SINGLE NETWORK									
INTERSWITCH	-								
INITIAL	1	.017500000	- 02						
NULTIPLE NETWORK									
INTERSWITCH INITIAL	749	.017580880	13.11						
ADDITIONAL	1,344	.005000000	6.72						
TERMINATING	T1344	.003000000	0.72						
TEO			•						
MULTIPLE NETWORK									
INTERSWITCH									
INITIAL	1,033	.017500080	18.08						
ADDITIONAL	1,606	.005000000	8.03						

TOTAL ULS - SWITCH FUNC	24,276		193.59						
TOTAL UNBUNDLED END OFFICE CH	ARGES - FL - EC 5	191	193.59						
UNBUNDLED MISCELLANEOUS - FL	- EC 5191								
DIRECTORY ASSISTANCE CALL	1	.030020000	. 03						
CONPLETION	- -	. 422840444	. 0.5						
FULLY AUTOMATED CALL									
HANDLED LEC LIDB	2	.100000000	.20						
	. –								
TOTAL UNBUNDLED MISCELLANEOUS	CHARGES - FL - E	C 5191	.23						
TOTAL LOCAL USAGE CHARGES FOR	OFFICE MIAMFLINSD	SØ	218.27						
<u> </u>	⋧₭⋧⋇∊⋧⋌ ⋇⋞⋇⋞⋠⋇	****	****						
TOTAL USAGE CHARGES FOR OFFIC			218.27						

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	SEP 22 00 THRU OCT 21 0	9	
RATE CATEGORY	QUANTITY	RATE	AMOUNT
UNBUNDLED TRANSPORT SHAL	RED TRANSPORT - FL - EC	5191	5
LOCAL			
UNDETERMINED ROUTING			
ORIGINATING			
		.000012000	.01
MIAMFLBRDS0 - 010 M	KLES 2	.000012000	.01
MIAMFLNSDS0 - 004 M	ILES 12	.000012000	.01
MIAMFLPLDS8 - 010 M		.000012000	.01
MIANFLERDSO - 013 M	ILES 2 ILES 1	.000012000	.01
MIAMFLYJCM5 - 816 M	r 23 11	.000012000	.01
NDADFLAC94E - 096 M	ri FS 1	.000012000	.01
NDADFLBRDS0 - 003 M	ri Fe 13	.000012000	.01
NDADFLGGDS0 - 005 M		.000012000	
PRRNFLMADSO - 021 M		.000012000	.01
TANDEM		*400015000	.01
ORIGINATING			
BCRTFLSNCHL - 033 M		.000012000	. 01
MIANFLAFCHI - 010 N	ILES 6	.800012000	.01
MIAMFLAPDSO ~ 007 H	il <u>e</u> s 1	.000012000	.01
MIAMFLYJCMS - 016 M	CLES 3	.000012000	.01
NDADFLGGCMS - 005 M	CLES 1	.000012000	.01
NDADFLGGDS0 - 005 M	TLES 1	.000012000	.01
OJUSFLTLCM1 - 009 M	ILES ī	.000012000	.01
ACCESS			141
TANDEM			
TERMINATING	•		
NDADFLGGOIT - 005 N	LES 1	.000012000	6 7 -
			.01
TOTAL UT SHRD TRANS	60		.18
UNBUNDLED TRANSPORT FAC	TITLES TERMINATION FO	TO EO - EL - EC EL	
LOCAL			~1
UNDETERMINED ROUTING			
ORIGINATING	42	.000500000	
TANDEM	74		.02
ORIGINATING	1.6	60.0C0.643.6	
OKTOTING	10	.000500080	.01
TOTAL UT F TERM ED-ED	52		.03
UNBUNDLED TRANSPORT FAC: ACCESS	LITIES TERMINATION ED	TO TANDEN - FL - E	C 5191
TANDEH	· · · · ·	·	
TERMINATING	1	.000500000	.01

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RATE CATEGORY	QUANTITY	RATE	AMOUNT	
TOTAL UT F TERM EO-TAN	1		.01	
UNBUNDLED TRANSPORT TANDEN	SWITCHING - FL - EC	5191		
LOCAL UNDETERMINED ROUTING	,	· · ·		
ORIGINATING	42	.000290000	. 01	
TANDEM	46		.01	
ORIGINATING	10	.000298000	. 01	
ACCESS				
TERMINATING	1	.000290000	.01	
			••=	
TOTAL UT TANDEM SW	53		.03	
TOTAL UNBUNDLED TRANSPORT CI	HARGE - FL - EC 519	1	.25	
MBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING	- EC 5191 Switching Function	ALITY		
MBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH	SWITCHING FUNCTION	ALITY	·	
MBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL	SWITCHING FUNCTION	. 817500080	.18	
MBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL	SWITCHING FUNCTION	-	.18 .06	
MBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL	SWITCHING FUNCTION 10 12 21	. 917500000 . 005000000 . 017500000	.06	
MEUNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL	SWITCHING FUNCTION	. 917500000 . 00500000	- 06	
MBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL MULITPLE NETWORK	SWITCHING FUNCTION 10 12 21	. 917500000 . 005000000 . 017500000	.06	
MEUNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL MULTIPLE NETWORK INITIAL	SWITCHING FUNCTION 10 12 21	. 917500000 . 005000000 . 017500000	.06	
MEUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL MULIIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL ADDITIONAL	SWITCHING FUNCTION 10 12 21 21	.917500000 .005000000 .017500000 .00500000	.06 .37 .11	
MEWNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH ADDITIONAL MULIIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL TEO	SWITCHING FUNCTION 10 12 21 21 6	.817500000 .005000000 .017500000 .005000000 .005000000	-06 .37 .11 .11	
MEUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL MULIIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL ADDITIONAL	SWITCHING FUNCTION 10 12 21 21 6	.817500000 .005000000 .017500000 .005000000 .005000000	-06 .37 .11 .11	
MEWNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL HULIIPLE NETWORK INTERSWITCH INITIAL TEO SINGLE NETWORK INTERSWITCH INITIAL	SWITCHING FUNCTION 10 12 21 21 6 4 21 21	.917500000 .005000000 .017500000 .005000000 .017500000 .017500000	.06 .37 .11 .11 .02 .37	
MEUNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL HULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL TEO SINGLE NETWORK INTERSWITCH INITIAL ADDITIONAL INITIAL ADDITIONAL	SWITCHING FUNCTION 10 12 21 21 21 21 6 4	.017500000 .005000000 .017500000 .005000000 .017500000 .017500000	.06 .37 .11 .11 .02	
MEWNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL HULIIPLE NETWORK INTERSWITCH INITIAL TEO SINGLE NETWORK INTERSWITCH INITIAL	SWITCHING FUNCTION 10 12 21 21 6 4 21 21	.917500000 .005000000 .017500000 .005000000 .017500000 .017500000	.06 .37 .11 .11 .02 .37	
MEUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL TEO SINGLE NETWORK INTERSWITCH INITIAL ADDITIONAL TEO SINGLE NETWORK INTERSWITCH INITIAL ADDITIONAL ADDITIONAL EO ORIGINATING EO	SWITCHING FUNCTION 10 12 21 21 6 4 21 21	.917500000 .005000000 .017500000 .005000000 .017500000 .017500000	.06 .37 .11 .11 .02 .37	
MEWNDLED LOCAL SWITCHING - LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL HULITPLE NETWORK INTERSWITCH INITIAL ADDITIONAL TEO SINGLE NETWORK INTERSWITCH INITIAL ADDITIONAL ACCESS ORIGINATING	SWITCHING FUNCTION 10 12 21 21 6 4 21 21	.917500000 .005000000 .017500000 .005000000 .017500000 .017500000	.06 .37 .11 .11 .02 .37	

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RATE CATEGORY TERMINATING	QUANTITY	RATE	AMOUNT
TEO Multiple Network Interswitch Initial Additional	21 6	.017500000	.37
TOTAL ULS - SWITCH FUNC Total Unbundled end office c	144 HARGES - FL - EC 51		1.75

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	CO THRU NOV 21 00		·				11	 •	
ATE CATEGORY	QUANTITY	RATE	AMOUNT						•
NBUNDLED TRANSPORT SHARED TR	ANSPORT - FL - EC	5191							
UNDETERMINED ROUTING ORIGINATING									
FTLDFLTBCM4 - 018 MILES	6	.000812800	.01	•		·· ·		 1. J. F.	
FTLDFL92DS0 - 006 HILES MIAMFLAEDS0 - 011 MILES	25	.000012000 .000012000	.01					1	
MIAHFLALG3E - 007 MILES	37	.000012000	.01						
MIAMFLBA85E - 011 MILES MIAMFLBRDS0 - 010 NILES	4 11	.000012000	.01	:	• • •			1.1	
MIAMFLCADSO - 013 MILES	1	.000012000	.01						· ·
MIAMFLGRDS1 - 009 MILES MIAMFLHLDS0 - 005 MILES	21	.000012000 .000012000	.01						
MIAMFLME32E - 008 MILES	13	.000012000	.01						
HIANFLNNDS0 - 005 MILES MIANFLNSDS0 ~ 004 MILES	23 41	.000012000 .000012000	.01 .01						
MIAMFLPLDS0 - 010 MILES	11	.000012000	.01						· "
MIANFLRRDSO - 013 MILES MIANFLSH75E - 005 MILES	12 37	.000012000 .000012000	.01 .01		•			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
MIAMFLSODS0 - 017 MILES	7	.000012000	.01						
MIAMFLWDDS0 - 020 MILES NIANFLYJCH2 - 016 NILES	. 4 3	.000012000 .000012000	.01 .01	· . ·		· .		in the second	$(A^{(1)}) = \{y \in F \mid x \in A\}$
MIAMFLYJCM5 - 016 MILES	9	.000012000	.01	• •					··· · ·
MIANFLPVDS0 ~ 010 MILES NDADFLAC94E - 006 MILES	8 53	.000012000 .000012000	.61 .01						
NDADFLBRDS0 - 003 MILES NDADFLGGCM4 - 005 MILES	199	.000012000 .000012000	.01		*				
NDADFLGGDS0 - 005 MILES	22	.000012000	.01 .01						
NDADFLGG1KD - 005 MILES NDADFLGG2KD - 005 MILES	4 3	.000012000 .000012000	.01 .01						
NDADFLOLDSO - 008 MILES	4	.000012000	.01					: .	· .
OJUSFLTLCM1 - 009 MILES PMBHFLEDOKD - 019 MILES	12	.000012000 .000012000	.01 .92						
TANDEM	-			•		· _			
ORIGINATING BCRTFLSNCM1 - 033 MILES	2	.000012000	. 81					2	
FTLDFLAMCH2 - 019 MILES	26	.000012000	.01						
FTLDFLHQCM2 - 021 MILES FTLDFLTBCM4 - 018 MILES	1	.000012000 .000012000	.01 .01	· · · .		• • •		· · · ·	
NTAMFLAFCH1 - 010 HILES	23	.000012000	.01	•		•			and a set of the t
MIAMFLAPDSO - 007 MILES MIAMFLHLDSO - 005 MILES	23	.000012000	.01						
NIAMFLPLDSD - 010 MILES	i	.000012000	. 01		•				
MIANFLWM26E ~ 010 MILES MIANFLYJCM5 - 016 MILES	16	.000012000 .000012000	.01						
NDADFLBRDS0 - 003 MILES	2	.000012000	.01						
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				PAGE 89		
· .	* * * * * * * * * LOCAL USAGE F(OCT 22 0	R OFFICE MIANF	LOL68E * * *	* * * * * * * *		
	RATE CATEGORY NDADFLGGCH4 - 005 MILES	QUANTITY	RATE	AMOUNT		
 	NDADFLGGCM5 ~ 005 MILES NDADFLGGCM6 ~ 005 MILES	3	.000012000			
	NDADFLGGDS0 - 005 MILES DJUSFLTLCM1 - 009 MILES	3	.000012000	.01		
• . •	DJUSFLTICH2 + 009 MILES PRRNFLAECHI - 020 NTLES	9	.000012000 .000012000 .000012000	.01		
	ACCESS TANDEH		.0004TS004	.01	· · ·	
	ORIGINATING _NDADFLGG01T - 005 MILES	58	.880012000			
	TERMINATING NDADFLGG01T - 005 MILES	141	.000012000			
				. 01	1.	
	TOTAL UT SHRD TRANS	937		.49		
1. j. j.	UNBUNDLED TRANSPORT FACILITIES T	ERMINATION EC	10 EO - FL -	EC 5191	:	
	UNDETERMINED ROUTING ORIGINATING TANDEM	546	.000500000	.27		
1 1 1 1 1 1	ORIGINATING	169	.000500000	. 27	· · · ·	
	TOTAL UT F TERM ED-ED				•	
:		715	_	. 35		
	UNBUNDLED TRANSPORT FACILITIES T ACCESS TANDEM	EXMINATION ED 7	TO TANDEM - F	L - EC 5191		
•	ORIGINATING TERMINATING	58 141	.000500000	.03		
		141	.800500000	.07		
	TOTAL UT F TERM EG-TAN	199		.10	,	
	UNBUNDLED TRANSPORT TANDEM SWITCH LOCAL	HING - FL - EC	51 9 1	•	· · · ·	
	UNDETERMINED ROUTING DRIGINATING	546			,	
	TANDEM ORIGINATING	169	.000290000	.16		
	ACCESS	107	.000290000	.05		
•	ORIGINATING TERMINATING	58 141	.000290000	. 02		
		7.47	.000290000	.04		
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BILL DATE	NOV 22,2004
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RATE CATEGORY	QUANTITY	RATE	AMOUNT	
TOTAL UT TANDEN SW TOTAL UNBUNDLED TRANSPORT CHAR	914 GE - FL - EC 519		.27 1.21	
UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW LOCAL ORIGINATING	C 5191 TICHING FUNCTION	ALITY		
EO SINGLE NETWORK	2	i.	•	
INTRASHITCH				
INITIAL ADBITIONAL	68 50	.017500000 .005000000	1.05	
INTERSWITCH INITIAL	194	.017500000	3.40	
ADDITIONAL HULTIPLE NETWORK	337	.005000000	1.69	
INTERSWITCH INITIAL	99	.017500000	1.73	
ADDITIONAL TEO	86	. 005000000	.43	
SINGLE NETWORK				
INTERSWITCH INITIAL	194	.017500808	3.40	
ADDITIONAL MULTIPLE NETWORK	337	.005000000	1.69	
INTERSWITCH Initial	6	.017500800	.11	
ADDITIONAL	10	.005000008	. 05	
ORIGINATING				
EQ Multiple Network				
INTERSWITCH INITIAL	32	.017500000	. 56	
ADDITIONAL TERMINATING	69	. 90500000	.35	
TEO HULTIPLE NETWORK				
INTERSWITCH	249	.017500000	4.20	

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RATE CATEGORY	QUANTITY	RATE	AMOUNT
TOTAL ULS - SWITCH F TOTAL UNBUNDLED END	UNC 2,276 OFFICE CHARGES - FL - EC 519	1	21.72 21.72
TOTAL LOCAL USAGE CH	ARGES FOR OFFICE MIAMFLOL68E		24.93

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INVOICE NO 30 BILL_DATE NO	5 9 5992 W 22;2000 GE 92
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RATE CATEGORY	QUANTITY	RATE	
UNBUNDLED TRANSPORT SHARED TRAN LOCAL UNDETERMINED ROUTING	NSPORT - FL - EC	5191	
ORIGINATING MIANFLSH75E - 007 MILES ACCESS TANDEM	21	.000012008	
TERMINATING NDADFLGGOIT - 011 MILES	8	.000012000	
TOTAL UT SHED TRANS	29		
UNBUNDLED TRANSPORT FACILITIES LOCAL UNDETERMINED ROUTING ORIGINATING	TERMINATION EQ 21	TO EO - FL - EC 5	191
TOTAL UT F TERM EO-EO	21		
UNBUNDLED TRANSPORT FACILITIES	TERMINATION ED	TO TANDEN - FL -	EĊ
TANDEM TERMINATING	8	.000500000	
TOTAL UT F TERN EO-TAN	8		
UNBUNDLED TRANSPORT TANDEM SWI	TCHING - FL - EC	5191	
UNDETERMINED ROUTING ORIGINATING ACCESS	21	.000290000	
TANDEM TERMINATING	8	.008290000	•

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RATE CATEGORY	QUANTITY	RATE	AMOUNT
UNBUNDLED END OFFICE UNBUNDLED LOCAL SWITCHI LOCAL ORIGINATING ED	FL - EC 5191 NG - Switching Function	ALITY	
SINGLE NETWORK INTERSHITCH			· · · ·
INITIAL ADDITIONAL TEO	3 18	.017500000 .90500000	. 95 - 09
SINGLE NETWORK INTERSWITCH		· · ·	• •
INITIAL ADDITIONAL ACCESS	3	.017500000 .005000000	.05
TERMINATING TEO			
MULTIPLE NETWORK INTERSWITCH	• .	÷ • •	· .
INITIAL ADDITIONAL	17	.017500000 .005000000	.02 .04
TOTAL ULS - SWITCH FUNC Total unbundled end offi	50 ICE CHARGES - FL - EC 5		.34

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RATE CATEGORY		QUANTITY	RATE	AMOUNT
UNBUNDLED TRANSPORT S	HARED TRANSPI	DRT - FL - EC	5191	
LOCAL				
UNDETERMINED ROUTIN	G			
ORIGINATING				
FTLDFLHQCH2 - 027		1	.000012000	.01
HIANFLALGE - 003		14	.000012000	.01
	MILES	2	.000012000	.01
	MILES	· _ 1	.000012000	.01
MIAMFLME32E - 005 MIAMFLNMDS0 - 009	MILES		.000912090	01
MIAMFLOL68E - 007		119 173	.800812000	.01
MIANFLULGOE - 007		510	.000012000	.01
NDADFLAC94E - 011			.000012000	-04
NDADFLGGDS0 - 011		· 1 3	-000012000	.01
TANDEN	11123	Ş	-000012000	.01
ORIGINATING				
HIAMFLWM26E - 004	MTLES	1	.000012000	.01
NDADFLGGCM5 - 011		· 3	.000012000	.01
OJUSFLTLCM1 - 014		35	.000012000	.01
NDADFLGG03T - 011		3	.000012000	.01
ACCESS		•	1000012000	
TANDEN				
ORIGINATING				
NDADFLGG01T - 011	MILES	11	.001012000	.01
TERMINATING				
NDADFLGG01T - 011	MILES	9	.000012000	.01
TOTAL UT SHRD TRANS		891		
TOTAL OF SING TAKES		071		.19
UNBUNDLED TRANSPORT F.	ACILITIES TE	MINATION EO	TO EO - FL - EC 51	91
UNDETERMINED ROUTIN	G			
ORIGINATING		823	.8805880008	.41
TANDEN				
ORIGINATING		38	.000580000	.02
TOTAL UT F TERM EO-EO		861		43
· · · · · · · · · · · · · · · · · · ·	•			
UNBUNDLED TRANSPORT F.	ACILITIES TE	MINATION EO '	TO TANDEM - FL - E	5191
TANDEM		_		
ORIGINATING		3	.800500800	.01

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OCT 22 RATE CATEGORY	QUANTITY	DITE					
ACCESS	MONATT L	RATE	AMOUNT				
TANDEN ORIGINATING	11	.000500000	.81				
TERMINATING	-9	.000500000	.01				
TOTAL UT F TERN EG-TAN	23		. 03	·		• • •	
UNBUNDLED TRANSPORT TANDER SH LOCAL	ITCHING - FL - EC	5191					
UNDETERMINED ROUTING				· .	•		· · · · ·
ORIGINATING TANDEM	823	.800298000	. 24				
ORIGINATING	40	.008290000	.01				
TANDEM							
ORIGINATING TERMINATING	11	.000290000 .000290000	.01 .01				
TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CHA			.27				
TOTAL UNBUNDLED TRANSPORT CHA	RGE - FL - EC 519						
TOTAL UNBUNDLED TRANSPORT CHA UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S	NRGE - FL - EC 519 FC 5191	-	.27				
TOTAL UNBUNDLED TRANSPORT CHA UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S LOCAL ORIGINATING	NRGE - FL - EC 519 FC 5191	-	.27				
TOTAL UNBUNDLED TRANSPORT CHA UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S LOCAL ORIGINATING E0	NRGE - FL - EC 519 FC 5191	-	.27				
TOTAL UNBUNDLED TRANSPORT CHA UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH	RGE - FL - EC 519 EC 5191 WITCHING FUNCTION	ALITY	.27 .92				
TOTAL UNBUNDLED TRANSPORT CHA UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL	NRGE - FL - EC 519 FC 5191	ALITY .017500000	.27 .92				
TOTAL UNBUNDLED TRANSPORT CHA UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH	RGE - FL - EC 519 EC 5191 WITCHING FUNCTION 2 1	ALITY .017500000 .00500000	.27 .92 .04 .01				
TOTAL UNBUNDLED TRANSPORT CHA UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL	IRGE - FL - EC 519 EC 5191 WITCHING FUNCTION	ALITY .017500000	.92 .92				
TOTAL UNBUNDLED TRANSPORT CHA UNBUNDLED END OFFICE - FL - UNBUNDLED LDCAL SWITCHING - S LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INITERSWITCH INITIAL ADDITIONAL MULTIPLE NETWORK INTERSWITCH	RGE - FL - EC 519 EC 5191 WITCHING FUNCTION 2 1 100	ALITY .017500000 .005000000 .017500000	.27 .92 .04 .01				
TOTAL UNBUNDLED TRANSPORT CHA UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL HULTIPLE NETWORK INTERSHITCH INITIAL	RGE - FL - EC 519 EC 5191 WITCHING FUNCTION 2 1 100 726 9	ALITY .017500000 .005000000 .017500000 .007500000 .017500000	.27 .92 .92 1.75 3.63 .16				
TOTAL UNBUNDLED TRANSPORT CHA UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S LOCAL ORIGINATING ED SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL MULTIPLE NETWORK INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH INTERSWITCH	RGE - FL - EC 519 EC 5191 WITCHING FUNCTION 2 1 1 100 726	ALITY .017500000 .005000000 .017500000 .00500000	.27 .92 .92 .91 1.75 3.63				
TOTAL UNBUNDLED TRANSPORT CHA UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - S LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL	RGE - FL - EC 519 EC 5191 WITCHING FUNCTION 2 1 100 726 9	ALITY .017500000 .005000000 .017500000 .007500000 .017500000	.27 .92 .92 1.75 3.63 .16				

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RATE CATEGORY	QUANTITY	RATE	AMOUNT
ACCESS Originating ED			•
MULTIPLE NETWORK Interswitch Initial Additional	8 13	.017500000 .00500000	.14 .07
TERMINATING TEO MULTIPLE NETWORK INTERSWITCH			• .
INITIAL ADDITIONAL	7 19	.0175000000	.12 .10
TOTAL ULS - SWITCH FUNC Total Unbundled End Office of	1,739 HARGES - FL - EC 5	191	11.52 11.52
TOTAL LOCAL USAGE CHARGES FO	R OFFICE MIANFLPB8	8E	12.84
****	(XXXXXXXXXXXXXXXXXXXXXX	*******	******

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* * * * * * * * * LOCAL USAGE F SEP 22 D	OR OFFICE MIAMF	LSH75E * * • * * * 0	***
RATE CATEGORY	QUANTITY	RATE	AMOUNT
UNBUNDLED TRANSPORT SHARED TRAN Local Undeternined Routing	SPORT - FL - EC	5191	
ORIGINATING MIAMFLAL63E - 004 MILES MIAMFLBCDS0 - 004 MILES MIAMFLBCDS0 - 004 MILES MIAMFLNSDS0 - 003 MILES MIAMFLDL68E - 005 MILES MIAMFLDL68E - 007 MILES MIAMFLWKDS0 - 010 MILES MIAMFLWKDS0 - 008 MILES MIAPFLY0050 - 006 MILES MIAQFL06DS0 - 006 MILES NDADFLGC94E - 006 MILES NDADFLGC950 - 007 MILES	16 15 14 27 3 3 7 1 3 36 5	.000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000	.01 .01 .01 .01 .01 .01 .01 .01 .01 .01
NDADFLEGEDSG - 007 MILLS ORIGINATING BCRTFLSNCMI - 035 MILES FTLDFLAMCM2 - 021 MILES FTLDFLTBCM4 - 021 MILES MIAMFLHLDSO - 008 MILES MIAMFLHM26E - 009 MILES NDADFLBRDSO - 007 MILES O.JUSFLTICMI - 009 MILES ACCESS	1 10 3 1 1 1 1	.090012000 .00012000 .00012000 .00012000 .00012000 .000012000 .000012000 .000012000	-01 .01 .01 .01 .01 .01
TANDEM Originating NDADFLGG01T - 007 Miles Terminating NDADF1GG01T - 007 Miles	42 · 3	.000012000	.01 .01
TOTAL UT SHRD TRANS	203	 	.21
UNBUNDLED TRANSPORT FACILITIES	TERMINATION EO	TO EO - FL - EC 51	191
UNDETERMINED ROUTING ORIGINATING	134	.000560000	.07
TANDEN ORIGINATING	14	.000500000	.01

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TOTAL UT F TERH EO-EO

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RATE CATEGORY	QUANTITY	RATE	AMOUN
UNBUNDLED TRANSPORT FACILITIE	S TERMINATION EO 1	ro Tandem - FL - E	C 5191
TANDEM DRIGINATING TERMINATING	42 3	.000500000 .000500000	. 02 . 03
TOTAL UT F TERM EO-TAN			.03
UNBUNDLED TRANSPORT TANDEM SI Local	VITCHING - FL - EC	5191	·
UNDETERMINED ROUTING ORIGINATING	134	.000290000	.04
TANDEM ORIGINATING ACCESS	14	.000290000	. 03
TANDEM ORIGINATING TERMINATING	42 3	.000290000 .000290000	. D . O
TOTAL UNBUNDLED TRANSPORT CH	ARGE - FL - EC 519	1	.3
UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SMITCHING - : LOCAL	EC 5191		
UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - : LOCAL ORIGINATING E0	EC 5191		
UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL	EC 5191		.6 .1
UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INITIAL ADDITIONAL MULTIPLE NETWORK	EC 5191 SWITCHING FUNCTION 36	ALITY .017500000	
UNBUNDLED END OFFICE - FL - UNBUNDLED LOCAL SWITCHING - LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITERA ADDITIONAL	EC 5191 SWITCHING FUNCTION 36 21 48	ALITY .017500000 .005000000 .0175000000	.1

 $(1, 1, 2, \dots, 2^{n-1}) = (1, 2^{n-1}) + (1, 2^{n-1$

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	IN	IOICE NO 3	05 Q 05 Q 05 Q 22 7 2 0 U AGE 99
* * * * * * * * * LOCAL USAG SEP 2	E FOR OFFICE HIAMFI 2 00 THRU OCT 21 01	_SH75E * * *	* * * * * * *
RATE CATEGORY MULTIPLE NETWORK	QUANTITY	RATE	AMOUNT
INTERSWITCH INITIAL ADDITIONAL ACCESS ORIGINATING EO HULTIPLE NETWORK	5 5	.017500000 .00500000	
INTERSWIJCH INITIAL ADDIJIONAL TENNINATING TEO MULTIPLE NETWORK	5 37	.017500080 .065000009	
INTERSWITCH INITIAL ADDITIONAL	22 30	.017500000 .005000000	
TOTAL ULS - SWITCH FUNC Total Unbundled End office C	435 HARGES - FL - EC 5	191	4.44 4.44

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		NOICE NO SUSAN NOV 22 PAGE	2,2000 100
* * * * * * * * * LOCAL US/ OCT	GE FOR OFFICE MIAN 22 00 THRU NOV 21	FLSH75E * * * * * * 00	*****
RATE CATEGORY	QUANTITY	RATE	AHOUNT
UNBUNDLED TRANSPORT SHARED LOCAL UNDETERMINED ROUTING ORIGINATING	TRANSPORT - FL - E		
FTLDFLWADS1 - 020 MILES	S 2 S 2	.000012000	.91
FTLDFL92DS0 - 006 HILE	S 2	.000012000	.01
MIAMFLAEDSO - 008 MILES	s 1	.000012000	.01
MIAMFLAL63E - 004 MILE	Š 176	.000012000	.01
MIAMFLBA85E - 007 MILE	Š 2	.000012800	.01
MIAMFLBCDS0 - 004 MILE	S 66	.000012000	. 01
MIAMFLBRDSO - 006 MILE	s 9	.000012000	.01
MIAMFLCADSO - 013 MILE	<u> </u>	.000012000	.01
MIAMFLGRDS1 - 006 MILE	s 16	.000012000	.01 .01
MIAMFLHLDSO - 008 MILE		.000012000	.01
MIAMFLICDSO - 005 MILE		.000012000 .000012000	.91
MIAMFLMERSO - 005 MILE		000012000	.01
NIAMFLME32E - 005 MILE MTAMFLNMDS0 - 004 MILE		600012000	.01
		.000012000	.01
MIAMFLNSDS0 - 003 MILE Miamflol68e - 005 Mile		.000012000	.01
MIANFLPB88E - 007 NILE		000012000	.01
MIAMFLPLDSO - 011 MILE		,000012000	.01
MIAMFLERDSO - 012 NILE		.090012000	.01
MIANFLSODSO - 016 MILE	č 6	.000012000	.01
MIAMFLWM26E - 009 MILE		.000012000	.01
MIAMFLYJCM5 - 021 HILE	Š. 7	.000012000	.01
MIANFLPVDS0 - 011 MILE		.000012000	.01
MIANFLWKDS0 - 010 MILE	Ś 22	.000012000	.01
MIAPFLYODSO - 008 MILE	S 1	.000012000	.01
MIAQFLO6DS0 - 006 MILE	S 43	.000012800	.01
MIASFL68DS0 - 011 MILE	S 9	.000012000	.01
NDADFLAC94E - 006 MILE		.000012000	.01
NDADFLBRDS0 - 007 MILE		.000012000	.01
NDADFLGGDS0 - 007 MILE		.000012000	.01 .01
NDADFLGG1KD - 007 MILE	S 1	.000012000	.01
NDADFLOLDS0 - 008 MILE		.000012000	.01
PRRNFLMADS0 - 019 MILE	S 15	.000012000 .000012000	01
FTLDFLANCM2 - 021 MILE		.000012000	.01
FTLDFLTBCH4 - 021 MILE	S / 5	.000012000	.41
TANDEM			
ORIGINATING Bertflsnemi - 035 mile	e 2	.000012000	.01
BCRTFLSNCM1 - 035 MILE FTLDFLAICM1 - 025 MILE		.000012000	.01
FTLDFLANCM2 - 021 MILE		.000012000	.01
FTLDFLANCH2 - 021 HILE		000012000	.01
FTLDFLHQCM2 - 024 MILE		.000012000	.01
FILDFLOWCONE - 024 MILE		,	

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*****	* * LOCAL	USAGE FOR	OFFICE MIAMF	LSH75E * * * * *	****
		JLI 22 UU	STARU MOV 21 U	RATE	AMOUNT
ATE CATEGORY		TIEČ	21	.000012000	.01
FTLDFLTBC			43	.000012000	.01
MIAMFLAFC NIAMFLAPD			-0	000012000	.01
MIAMFLFLD			1	.000012000	.01
MIANFLHLD			7	.000012000	.01
MIAMFLIND			723235132262222	.000012000	.01
HIANFLPLD			3	.000012000	.01
MIAMFLWM2		ILES	2	.000012000	.01
MIAMFLYJC		TLES	3	.000012000	.01
NDADFLBRD	SO - 007 M		. 5	.000012000	.01
	14 - 007 M		. 1	.000012000	.01
NDADFLGGC			5	.000012000	.01
NDADFLGGC			4	.060012000	.01 .01
NDADFLGGD			-	.000012000 .000012000	
			2	.000012000	.01
PRRNFLAEC MIAMFLNMD			5	.000012000	.01
MIAMFLOLO			2	.000012000	.01
NDADFLGGO			2	000012000	.01
	SO - 008 M		2	.000012000	.01
NDADFLGGO			21	.000012000	.01
ACCESS					
TANDEM	the second second second				1
ORIGINATIN			·		
	1T ~ 007 M	ILES	70	.000012000	.01
TERMINATIN	IG		107	4444778844	.01
NDADF LGGU	1T - 007 M	ILES	4	.000012080 .000012000	.01
	AT - 007 M 2T - 069 M		1	.000012000	.01
WPBHFLGR U	121 - 069 M	Tr£2	-		. • •
TOTAL UT SHRE	TRANS		1,709		.65
INBUNDLED TRA	NSPORT FAC	ILITIES T	ERMINATION EO	TO ED - FL - EC 5	191
UNDETERMINE			1,330	.000500000	.67
TANDEM			-,+		
ORIGINATI	ING	· .	144	.000500000	. 07
OTAL UT F TE	PH SO-FO		1,474		.74
			•	TO TANDEN - Ct - 1	
LOCAL	MSPORT FAC	TT11752 1	CRITINATION ED	TO TANDEN - FL - 1	
TANDEM ORIGINATI	ENG		21	.000500000	01

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ACCESS	QUANTITY	RATE	AMOUNT
TANDEM GRIGINATING TERMINATING	70 111	.000500000	. 84 . 06
TOTAL UT F TERM EO-TAN	202		.11
UNBUNDLED TRANSPORT FACILITIES	TERMINATION TOP	S TO EO - FL -	
TANDEN ORIGINATING	12	.000500000	.01
TOTAL UT F TERM TOPS-ED	12		.01
UNBUNDLED TRANSPORT TANDEN SWI	TCHING - FL - EC	5191	
UNDETERMINED ROUTING ORIGINATING	1,330	.000290080	.39
TANDEM ORIGINATING	164	.000290000	.05
ACCESS TANDEM ORIGINATING	_ 70	.000290009	.02
TERMINATING	111	.000290008	. 03
TOTAL UT TANDEM SW Total Unbundled Transport Char	1,675 GE - FL - EC 519	91	.49 2.00
UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW	C 5191 ITCHING FUNCTION	ALITY	
LOCAL ORIGINATING			
EO Single Network Intraswitch		·	
	373 428	.017500000	6.53 2.14
INITIAL ADDITIONAL			
ADITIONAL INTERSMITCH INITIAL	566	.017500000	9.91
ADDITIONAL Interswitch	566 711	.017500000 .005000000	

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X X X X X X X X LOCAL USAGE FOR OFFICE NIANFLSH75E X X • X * X • X X * DCT 22 88 THRU NOV 21 80

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RATE CATEGORY	QUANTITY	RATE	AMOUNT
TEO SINGLE NETWORK			· · · · · · · · · · · · · · · · · · ·
INTERSWITCH			
INITIAL	557	.017500000	9.75 3.53
ADDITIONAL	705	.005000000	3.23
MULTIPLE NETWORK			
INTERSWITCH INITIAL	32	.017500000	.56
ADDITIONAL	55	,005000000	.28
ACCESS			
ORIGINATING EO			
MULTIPLE NETWORK			
INTERSWITCH	52	.017500000	.91
INITIAL Additional	94	.005000000	.47
TERMINATING			
TEO			
HULTIPLE NETWORK	· · · · · · · · · · · ·		• •
INTERSWITCH	169	.017500000	2.96
INITIAL ADDITIONAL	234	.005000000	1.17
		· •••	44.27
TOTAL ULS - SWITCH FUNC TOTAL UNBUNDLED END OFFICE CH	4,193 ARGES - FL - EC 5	5191	44.27
UNBUNDLED MISCELLANEOUS - FL	- FC 5191		. '
DIRECTORY ASSISTANCE CALL			
COMPLETION	7	.030000000	.21
OPERATOR CALL HANDLED	. 6	1.000000000	6,00
LEC LIDB	. 0	1	
FULLY AUTOMATED CALL			
HANDLED LEC LIDB	1	.100000000	.10
		-	
TOTAL UNBUNDLED MISCELLANEOUS	CHARGES - FL - I	EC 5191	6.31
TOTAL LOCAL USAGE CHARGES FOR	OFFICE MIAMFLSH	75E	57.41
ŤŘŇŘXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			*****
TATAN MAART CMADRED TOD ATETI	YE MTAMELSH75F		5/.41.
INITE OUR CUMAGES LOK OLITE	****	***** **********	*******

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BILL NO INVOICE NO BILL DATE	305 30509 NOV 22;2000 PAGE 104

	AUG 22 00 THRU SEP 21 0 AUG 22 THRU SEP 06	v.	
SATE ANTEODO	QUANTITY	RATE	AMOUNT
RATE CATEGORY	NUAN LI IT	RAIE	ANOON
ACCESS TANDEN	HARED TRANSPORT - FL - EC	5191	
ORIGINATING NDADFLGG01T - 022 Terminating	MILES 2	.000012000	.01
MIAMFLGROST - 013	MILES 3	.000012000	. 01
TOTAL UT SHRD TRANS	5		. 02
UNBUNDLED TRANSPORT F ACCESS TANDEM	ACILITIES TERMINATION EO	TO TANDEN - FL - E	ic 5191
ORIGINATING	2	.000500000	.01
TERMINATING	3	.000500000	.01
	*		
TOTAL UT F TERM EO-TA	N 5		. 02
ACCESS	ANDEM SWITCHING - FL - EC	5191	•
TANDEM ORIGINATING	2	.000290000	.01
TERMINATING	2 3	.000290000	.01
TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANS	PORT CHARGE - FL - EC 51	91	.02
UNBUNDLED END OFFICE UNBUNDLED LOCAL SWITC ACCESS	- FL - EC 5191 Hing - Switching Function	NALITY	
ORIGINATING	· .		
MULTIPLE NETWOR	•		
INITIAL TERMINATING TEO	2	.017500000	.04
HULTIPLE NETWORN	L		
INTERSWITCH	3	.017500000	. 05
INITIAL	5	·AT\baaAdq	

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* * * * * * * * LOCAL USAGE FOR OFFICE MIAMFLSODSO * * * * * * * * * * * Aug 22 00 thru sep 21 00 Aug 22 thru sep 06

RATE CATEGORY	QUANTITY	RATE	AMOUNT
TOTAL ULS - SWITCH F	UNC 5	L	- 09
TOTAL UNBUNDLED END	DFFICE CHARGES - FL - EC 5191		- 09

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¥ AMOUNT QUANTITY RATE RATE CATEGORY ..

			· · ·
UNBUNDLED TRANSPORT SHARED ACCESS TANDEM	TRANSPORT - FL - EC 5	191	
ORIGINATING Miamflgrost - 013 Mile Tenting the second	5 1	.000012000	. 07.
TERMINATING Miamflgrøst – D13 Mile	s 1	.080612000	.01
TOTAL UT SHRD TRANS	2	·	.02
UNBUNDLED TRANSPORT FACILI ACCESS	TIES TERMINATION EO TO	TANDEM - FL - E	C 5191
TANDEM ORIGINATING TERMINATING	1	.000500000 .000500000	.01 .01
TOTAL UT F TERM EO-TAN	2		.02
UNBUNDLED TRANSPORT TANDEM ACCESS TANDEM	SWITCHING - FL - EC 5	191	
ORIGINATING TERMINATING	1 1	.080290008 .809290000	.01 .01
TOTAL UT TANDEH SW TOTAL UNBUNDLED TRANSPORT	2 CHARGE - FL - EC 5191		.02 .06
UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING ACCESS ORIGINATING	- EC 5191 - SWITCHING FUNCTIONAL	ITY	
EO MULTIPLE NETWORK		·	
INTERSWITCH INITIAL TERMINATING TEO	1	.917500090	.02
MULTIPLE NETWORK			

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BILL NO INVOICE NO BILL DATE 305 09 NOV 22,2000 PAGE 107 * * * * * * * LDCAL USAGE FOR OFFICE MIAMFLSODSO * * * * • • * * * * AUG 22 00 THRU SEP 21 00 SEP 07 THRU SEP 21 AMOUNT RATE QUANTITY RATE CATEGORY TOTAL ULS - SWITCH FUNC 2 TOTAL UNBUNDLED END OFFICE CHARGES - FL - EC 5191 - 84 - 84

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RATE CAT	EGORY	QUANTITY	RATE	AMOUNT	
	TRANSPORT SHAPED	TRANSPORT - FL - EC	5191		4 A .
LOCAL					· ·
UNDETE	RMINED ROUTING				
	NATING	_		.81	
- MIAH	FLGRDS1 - 013 MILES	5 15	.000912000 .000912000	. 91	
MIAM	FLPLDSO - 009 MILES			.01	
MIAM	FLRRDSO - 006 MILES	18	.000012000		
MIAM	FLWDDS0 - 005 MILES	; <u>1</u>	.000012000	.01	
MIAM	FLWM26E - 007 MILES	6 1	.000012000	.81	
MIAO	FLOGDSO - 020 MILES	. 1	.000012008	.01	
NDAD	FLGGDSO - 022 MILES	i 1	.000012000	.01	
PRRN	FLMADSO - 005 HILES	2	.000012000	.01	
TANDEM			•	:* .	
	NATING				•
MTAN	FLHLDSO - 015 MILES	; I	.000012000	.01	
ACCESS					
TANDEM	L				
	NATING				· · · ·
MTAN	FLGR05T - 013 MILES	. 6	.000012000	.01	
NDAR	FLGGOIT - 022 MILES	32	.000012000	.01	
	NATING				
	FLGROST - 013 NILES	: 10	.080012000	.01	
ST S	FLGG01T - 022 MILES		.000012000	.01	•
, rutau	0.500911 - ATE UTER				
70741 17	SHRD TRANS	101		.13	
• • • • • • •					
UNBUNDLE	D TRANSPORT FACILI	TIES TERMINATION EO	TO EO - FL - EC 51	191	
LOCAL					
UNDETE	RMINED ROUTING		.080500000	. 82	
	SINATING	45	.00000000	. 42	
TANDER		-		.01	
ORIG	INATING	1	.000500000		· ·
. *. *					
	T T TEON ED_80	46	· • • •	.03	
	F TERM EQ-EO				
I BARI BARA F	B TRANSPORT FACILI	TIES TERMINATION ED	TO TANDEN - FL - I	EC 5191	
ACCESS					
TANDEL					
	SINATING	38	.000500000	. 02	
UKTA		Ĩ3 .	.000500000	.01	

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RATE AMOUNT QUANTITY RATE CATEGORY 51 ----______ ---.03 TOTAL UT F TERM ED-TAN

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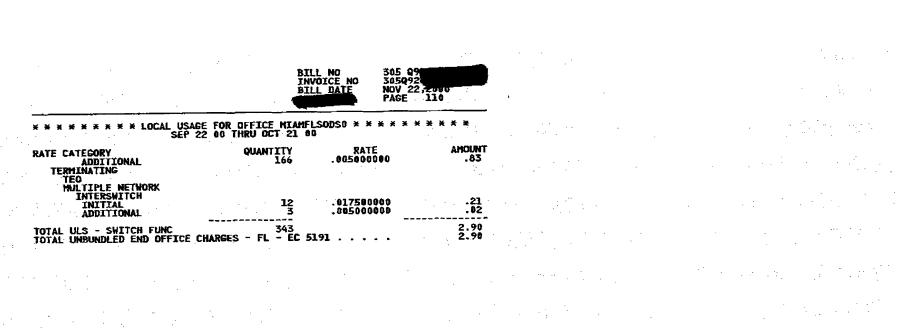
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IDIAL VI F IERN EV-IAN	22		••••
UNBUNDLED TRANSPORT TANDEM SWITCHING	- FL - EC	5191	
LOCAL	•		
UNDETERNINED ROUTING	45		.01
ORIGINATING	45	.800290800	.01
TANDEN	1	.000290000	.01
ORIGINATING	1	.000270000	. •1
ACCESS			
ORIGINATING	38	.000298000	.01
TERMINATING	13	.000290000	.01
1 L RI LEW (4410	14		
			_*
TOTAL UT TANDEM SW	97		. 04
TOTAL UNBUNDLED TRANSPORT CHARGE - I	FL - EC 519	1	.23
UNBUNDLED END OFFICE - FL - EC 519		A	
UNBUNDLED LOCAL SWITCHING - SWITCHIN	NG FUNCTION	ALIIY	
LOCAL			
ORIGINATING			
SINGLE NETWORK Intraswitch			
INIKASWIICH	6	.017500000	.11
ADDITIONAL	24	.005020000	.12
INTERSWITCH	£.4		
INITIAL	17	.017500000	, 30
ADDITIONAL	29	.00500000	.15
MULTIPLE NETWORK	. = -		
INTERSWITCH			
INITIAL	1	.817500000	.02
TEO			
SINGLE NETWORK			
INTERSWITCH			
INITIAL	17	.017500000	.30
ADDITIONAL	29	.00500000	.15
MULTIPLE NETWORK			
INTERSWITCH	1	.017500000	.02
INITIAL	Ŧ	.01/200000	.02
ACCESS			
ORIGINATING Eq	· ·		
HULTIPLE NETWORK			
INTERSWITCH			
INITIAL	38	.017508000	. 67

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* * * * * * * * * * LOCAL	OCT 22 00 THRU NOV 21 00		· · ·		
RATE CATEGORY	QUANTITY	RATE	AHOUNT		
UNBUNDLED TRANSPORT SHA	RED TRANSPORT - FL - EC	5191	· .		•
LOCAL DOUTTING	· · · ·				
UNDETERMINED ROUTING					
HMSTFLHMDSC ~ 017 }	11 ES 14	.000012000	. 01	· · · · · · · · · · · · · · · · · · ·	
MIAHFLAEDS0 - 009 1		.000012000	.01	•	
MIAMFLAL63E - 012	ITLES 1	.000012000	.01		
MIAMFLBA85E - 011	1TLES 38	.000012000	.01		
MIAMFLBRDSG - 017	ITLES 10	.000012000	.01		
MIAMFLCADSO - 005	HILES 129	.000012000	.01		
MIAMFLDADSO - 013	AÎLES 10	.000012000	.01		
MIAMFLDBRS1 - 006	111ES 113	.000012000	.01		
MIAMFLFLDS0 - 011	TLES 5	.000012000	.01 .01		
MIAMFLGRDS1 - 013		.600012000	.01		
MIAMFLHLOSO - 015	MILES 18	.000012000	.01		
	MILES 35	.000012000 .000012000	.01		
	HILES 4	000012000	.01		
	MILES 32 MILES 3	.000012000	.01		
	ILLEO	.000012000	.01		
		.010012000	.03		
		.000012000	.02		
		.000012000	.01	•	
		000012000	.01		
	NILES 142 NILES 45	600012000	.01		
	MILES 23	000012000	.01		
	MILES 23 MILES 8	.000012000	.01		
	MILES 4	000012000	.01		
	MILES 11	000012000	.01	*	
	NILES 11	.000612000	.01	. · ·	
	MILES 15	.000012000	.01		
	MILES 5	.000012000	.01		
	MILES 103	.000012000	.01		
TANDEM			· · · · · · · · · · · · · · · · · · ·	· -	
ORIGINATING					
BCRTFLSNCM1 - 049	MILES 1	.000012000	.01	•	
FTLDFLAMCM2 - 035	MILES 1	.000012000	.01		
NTAMFLAFCM1 ~ 013	MILES 15	.000012000	.01		
MTAMFLAPDS0 - 011	MILES 1	.000012000	.01		
MIAMFLYJCM5 - 026		.000012000	.01		
NDADFLGG01T - 022	NILES 8	.000012000	.01 .01		
OJUSFLTLCH1 - 025		.000012000			
PRRNFLAECM1 ~ 003		.800012008	.01 .01		
NDADFLGG03T - 022	MTLES 4	.000012000	. 01		

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	3	BILL NO INVOICE NO	305 9 30599 Nov 22,2000 PAGE 112
* * * * * * * * * * LOCAL USAGE F OCT 22 0	FOR OFFICE MIAN 10 THRU NOV 21	1FLSODSD × × 00	*****
RATE CATEGORY ACCESS	QUANTITY	RATE	AMOUNT
TANDEM ORIGINATING			·
MIANFLGROST - 013 MILES NDADFLGGOIT - 022 MILES	35 54	,0000120 .0000120	
TERMINATING MIAMFLGR05T - 013 MILES NDADFLGG01T - 022 MILES	28 1,415	.0000120 .0000120	
TOTAL UT SHRD TRANS	3,054		.81
UNBUNDLED TRANSPORT FACILITIES	-	0 TO EO - FL	- EC 5191
UNDETERMINED ROUTING ORIGINATING	1,455	.000500	.73
TANDEM ORIGINATING	48	.008500	380
TOTAL UT F TERM EO-EO	1,503	·.	.75
UNBUNDLED TRANSPORT FACILITIES	TERMINATION E	O TO TANDEM	- FL - EC 5191
TANDEM ORIGINATING ACCESS	<u>,</u> 11	.000500	\$08 .OI
TANDEM			.04
ORIGINATING TERMINATING	88 1,434	.000500	
TOTAL UT F TERM EO-TAN	1,533		.77
UNBUNDLED TRANSPORT TANDEN SWI	TCHING - FL -	EC 5191	· · · · · · · · · · · · · · · · · · ·
UNDETERMINED ROUTING ORIGINATING	1,455	.000290	.42
TANDEM ORIGINATING	_8	.000290	
ORIGINATING ACCESS TANDEM	51	, 680290	
	. 88	.008298	.03
ORIGINATING	1,434	.000290	

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	INV	L NO 305 Q9 DICE NO 305Q92 L DATE NOV 22 PAGE	113	
* * * * * * * * * LOCAL USAGE OCT 22	FOR OFFICE MIAMFL DO THRU NOV 21 00	SODSO * * * * * *	* * * *	
RATE CATEGORY	QUANTITY	RATE	AHOUNT	
TOTAL UT TANDEM SW Total unbundled transport chai	3,036 RGE - FL - EC 5191		.89 3.22	
UNBUNDLED END OFFICE - FL - I UNBUNDLED LOCAL SWITCHING - SI Local	EC 5191 VITCHING FUNCTION	ALITY	• ·	
ORIGINATING EQ SINGLE NETWORK			· · · · ·	
INTRASWITCH INITIAL ADDITIONAL	111 144	.017500000 .09500000	1.94 .72	
INTERSWITCH Initial Additional Multiple Network	413 996	.017500000 .005000008	7.23 4.98	
INTERSWITCH INTERAL ADDITIONAL	32 74	.017500000	.56 .37	
TEO Single Network Interswitch	• .		-	
INITIAL ADDITIONAL MULTIPLE NETWORK	409 996	.017500000 .005000000	7.16 4.98	
INTERSWITCH INITIAL ADDITIONAL	17 41	.017500000 .005000000	.30 .21	
ACCESS ORIGINATING EO MULTIPLE NETWORK				
INTERSMITCH INITIAL ADDITIONAL TERMINATING	729 2,905	.017500000 .005000008	12.76 14.53	
TEO MULTIPLE NETWORK Interswitch Initial Additional	122 1,501	.017500000	2.14 7.51	

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BILL NO INVOICE BILL DAT	

	* * * * * * * * * LOCAL USAGE OCT 22	FOR OFFICE MIAMFLSOD	SO * * * * * *	****
	RATE CATEGORY	QUANTITY	RATE	AMOUNT
:	TOTAL ULS - SWITCH FUNC TOTAL UNBUNDLED END OFFICE CH	8,490 ARGES - FL - EC 5191	• • • • •	65.39 65.39
	TOTAL LOCAL USAGE CHARGES FOR	OFFICE MIAMFLSODSO		71.99

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BILL NO INVOICE NO BILL DATE	305 Q 305Q9 NOV 2232000 PAGE 115

RATE CATEGORY	QUANTITY	WDDS0 × × × × × × × ×	ANO
		63.03	
UNBUNDLED TRANSPORT SHARED TRANSP ACCESS	UKI - FL - EC	5171	
TANDEN			
ORIGINATING	174	.000812800	
NDADFLGG01T - 025 MILES TERMINATING	1/4		
MIANFLGROST - 017 MILES	7	.000012000	
TOTAL UT SHED TRANS	177	·	
UNBUNDLED TRANSPORT FACILITIES TE	PHILIPHIATTON FO	TO TANDEM - FL - EI	5191
ACCESS	NILINALION LO		
TANDEM		.000500000	
ORIGINATING	170	.000500000	
TERMINATING	· ·		
TOTAL UT F TERM EO-TAN	177		
		5101	
UNBUNDLED TRANSPORT TANDEN SHITCH	AING - FL - EL	5191	
ACCESS			
DRIGINATING	170	.000290000	
TERMINATING	7	.000290000	
TOTAL UT TANDEM SW	-50 - 50 - 519	1	
TOTAL UNBUNDLED TRANSPORT CHARGE	- FL - CC 517	· ±	
UNBUNDLED END OFFICE - FL - EC	5191		
UNBUNDLED LOCAL SWITCHING - SWITCHING	CHING FUNCTION	ALIII	
ACCESS			
	· .		
EO			
MULTIPLE NETWORK			
MULTIPLE NETWORK INTERSWITCH	52	.817500000	
MULTIPLE NETWORK INTERSWITCH INITIAL	52 118	.017500000 .005000000	
MULTIPLE NETWORK INTERSWITCH			
MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL TERMINATING TEO			
MULTIPLE NETWORK INTERSWITCH ADDITIAL ADDITIONAL TERMINATINS TEO MULTIPLE NETWORK			
MULTIPLE NETWORK INTERSWITCH INTITAL ADDITIONAL TERMINATINS TEO			

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· · · · · · · · · · ·	BILL	NO 305 0 ICE NO 30509 DATE NOV 2252000 PAGE 116		
	BILL	DATE NOV 22,2000 PAGE 116	'	· ·

:	* * * * * * * * * * LOCAL USAGE JUL 22	FOR OFFICE MIAMFLWDDS0 00 THRU AUG 21 00	****	***	***
	RATE CATEGORY	QUANTITY	RATE		AMOUN
	TOTAL ULS - SMITCH FUNC Total unbundled end office ch	177 IARGES - FL - EC 5191 .			1.59 1.59

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4 ^{- 14}	·		INVO	NO 305 0 DICE NO 3059 DATE NOV 2			
		* * * * * * * * * LOCAL USAGE F Aug 22 0 Aug 22	DR OFFICE MIAMFLI B THRU SEP 21 00 2 THRU SEP 06	10050 * * * * * *	117		
		RATE CATEGORY	QUANTITY	RATE	AMOUNT		
		UNBUNDLED TRANSPORT SHARED TRAN ACCESS TANDEM	sport - Fl - EC	5191			
		ORIGINATING NDADFLGG01T - 025 MILES	101	.000012000	.03		
		TERMINATING MIAMFLGR05T - 017 MILES		.080812000	.01		
	•	TOTAL UT SHRD TRANS	110	• **	.04		
		UNBUNDLED TRANSPORT FACILITIES ACCESS TANDEM ORIGINATING TERMINATING	TERMINATION EO T 101 9	0 TANDEN ~ FL - .000500000 .000500000	EC 5191 .05 .01		
		TOTAL UT F TERM EO-TAN	110		.06		
		UNBUNDLED TRANSPORT TANDEN SWIT ACCESS TANDEH ORIGINATING TERMINATING	CHING - FL - EC 181 9	5191 - 000290100 - 060298800	.03 .91		
		TOTAL UT TANDEM SW Total Unbundled transport charge	110 E - FL - EC 5191	 L	.04 .14	· · ·	
		UNBUNDLED END OFFICE - FL - EC UNBUNDLED LOCAL SWITCHING - SWI ACCESS ORIGINATING EO NULTIPLE NETWORK	5191 TCHING FUNCTION	ALITY			
		INTERSWITCH INITIAL ADDITIONAL TERMINATING TEO	50 51	.017500600 .00500000	.88 .26		
	•	MULTIPLE NETWORK INTERSWITCH INITIAL Additional	7 3	.017500000 .005000000	.12 .02	•	
		· .		Ci	ONTINUED		

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BILL NO 305 QS INVOICE NO 305Q9 BILL DATE NOV 221-000 PAGE 118

RATE CATEGORY	QUANTITY	RATE	AMOUNT
TOTAL ULS - SMITCH FUNC	111	• • • • •	1.28
Total unbundled end office	CHARGES - FL - EC 5191		1.28

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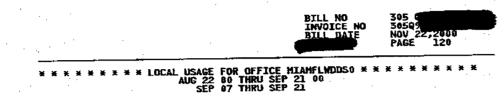
ra Lizi - C	· . · ·	INV	L NO 305 DICE NO 3059 L DATE NOV 22 PAGE	,2000
· · · ·	* * * * * * * * * LOCAL USAGE FC AUG 22 00 SEP 07	R OFFICE MIAMFL THRU SEP 21 00 THRU SEP 21	WDDS0 * * * * * *	****
	RATE CATEGORY	QUANTITY	RATE	AMOUNT
	UNBUNDLED TRANSPORT SHARED TRANS ACCESS TANDEM	SPORT - FL - EC	5191	·
2 - A.	ORIGINATING Ndadflgg01t - 025 Miles	5	.000012000	.01
	TERMINATING Miamflgrost - 017 miles	3	.000012000	.01
· · ·	TOTAL UT SHRD TRANS	8		.02
· .	UNBUNDLED TRANSPORT FACILITIES	TERMINATION EO	FO TANDEM - FL - E	C 5191
	TANDEM ORIGINATING TERMINATING	5 3	.000500000 .000500000	.01 .01
· .	TOTAL UT F TERM EO-TAN	8		.02
	UNBUNDLED TRANSPORT TANDER SWIT	CHING - FL - EC	5191	
· :	TANDEM ORIGINATING TERMINATING	5 3	.000290000 .000290000	.01 .01
	TOTAL UT TANDEM SN Total Unbundled Transport Charg	8 E - FL - EC 519	 1	.02 .06
· · · · · · · · · · · · · · · · · · ·	UNBUNDLED END OFFICE - FL - EC UNBUNDLED LOCAL SWITCHING - SWI ACCESS	5191 TCHING FUNCTION	ALITY	
	ORIGINATING E0 Multiple Network Interswitch			
4 . 1	INITIAL ADDITIONAL TERMINATING	3 3	.017500000 .005000000	.05
the transfer of the transfer o	TEO MULTIPLE NETWORK INTERSWITCH INITIAL	12	.017500000	.02
,	ADDITIONAL	2	.003000000	

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	RATE CATEGORY	QUANTITY	RATE	AMOUNT
·	TOTAL ULS - SWITCH FUNC	9		.10
	Total Unbundled End Office	CHARGES - FL - EC 5191 .		.10

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BILL NO INVOICE NO BILL DATE	305 0 30599 Nov 22,2000 PAGE 121
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	RATE CATEGORY	QUANTITY	RATE	AMDUN
	UNBUNDLED TRANSPORT SHARED TRAN	ISPORT - FL - EC	5191	•
	LOCAL			
	UNDETERMINED ROUTING			
	ORIGINATING HMSTFLHHDS0 - 015 MILES	2	.000012000	.01
	MIAMFLAEDSO - 013 MILES	10	.000012000	.01
	MTAMFLCADSO ~ 007 MILES	3	.000012000	.01
	MIAMFLGROS1 - 017 MILES	46	.000012000	.01
	MIANFLPB88E - 014 MILES	11	.000012000	.01
•	NIAMFLSODSO - 005 NILES	2	.080012000	.01
	MIAMFLWM26E - 011 MILES		.000012000	.01
	MIAMFLYJCH5 - 026 MILES	1	.000012000	.01
	NDADFLAC94E - 025 MILES	6	.000012000	.01
	PRRNFLMADSO - 008 MILES	15	.000012000	.01
	TANDEM			
	ORIGINATING Miamflaeds0 - 013 Miles	1	.000012000	. 81
	MIANFLAEDSU - 015 MILES MIAMFLAFCM1 - 017 MILES	1 2 4 3 1 1	.000012000	.01
	MIAMFLYJCM5 - 026 MILES	4	.000012000	.01
	NDADFLGGCM5 - 025 MILES	÷	.000012000	.01
	OJUSFLTLCHI - 028 MILES	ĩ	.000012000	.01
	PRRNFLAECH1 - 004 MILES	· ī	.000012000	.01
	ACCESS			
	TANDEM			
	ORIGINATING	_		
	NDADFLGG01T - 025 MILES	7	.000012000	.01
	TERMINATING Mianflgrost - 017 Miles	77	.000012000	.01
	NDADFLGG01T - 025 MILES	13 3	.000012000	.01
	NDRDI EGOVI (- 025 THEES	2		•
	TOTAL UT SHED TRANS	132		.19
				-
1111	UNBUNDLED TRANSPORT FACILITIES	TERMINALIUN EO	10 EG - FL - EC 91	
	UNDETERMINED ROUTING			. 05
	ORIGINATING	91	.000500000	. vs
	TANDEM ORIGINATING	. 9	.000500000	. 61
	UKIGINATING	· •		

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BILL NO 305 INVOICE NO 3059 BILL DATE NOV 22,2000 PAGE 122

RATE CATEGORY	QUANTITY	RATE	AMOUNT
UNBUNDLED TRANSPORT FACILITIES	TERMINATION EO	TO TANDEN - FL - E	C 5191
ACCESS			
ORIGINATING	7	.000500000	. 61
TERMINATING	15	.000500000	.01
TOTAL UT F TERM EO-TAN	22		.02
UNBUNDLED TRANSPORT TANDEM SWI	TCHING - FL - EC	5191	
UNDETERMINED ROUTING	- 1		.03
ORIGINATING TANDEM	91	.000290800	.05
ORIGINATING	9	.000290000	.01
ACCESS		. •.	
ORIGINATING	7 15	.800290000	.01
TERMINATING	19		
_			
TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT CHAR		1	. 06 , 33
TOTAL UNBUNDLED TRANSPORT CHAR UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW	GE - FL - EC 519 C 5191		. 96 , 33
TOTAL UNBUNDLED TRANSPORT CHAR	GE - FL - EC 519 C 5191		. 06 , 33
TOTAL UNBUNDLED TRANSPORT CHAR UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW LOCAL ORIGINATING EO SINGLE NETWORK	GE - FL - EC 519 C 5191		. 06
TOTAL UNBUNDLED TRANSPORT CHAR UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH	GE - FL - ĒC 519 C 5191 ITCHING FUNCTION 23		.33
TOTAL UNBUNDLED TRANSPORT CHAR UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL	GE - FL - ĒČ 519 C 5191 ITCHING FUNCTION	WFILL	.33
TOTAL UNBUNDLED TRANSPORT CHAR UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH	GE - FL - ĒC 519 C 5191 ITCHING FUNCTION 23	ALITY .017500000	.33 .44 .14
TOTAL UNBUNDLED TRANSPORT CHAR UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INITIAL ADDITIONAL ADDITIONAL	GE - FL - ĒC 519 C 5191 ITCHING FUNCTION 23 28	ALITY .017500000 .005000000	.33 .44 .4
TOTAL UNBUNDLED TRANSPORT CHAR UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INITIAL ADDITIONAL MULTIPLE NETWORK	GE - FL - ĒC 519 C 5191 ITCHING FUNCTION 23 28 28 27	ALITY .017500000 .005000000 .017500000	.33 .44 .4
TOTAL UNBUNDLED TRANSPORT CHAR UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW LOCAL ORIGINATING ED SINGLE METWORK INTRASWITCH INITIAL ADDITIONAL INITIAL ADDITIONAL HULTIPLE NETWORK INTERSWITCH INITIAL NITERSWITCH INITIAL	GE - FL - ĒC 519 C 5191 ITCHING FUNCTION 23 28 27 65 4	ALITY .017500000 .005000000 .017500000 .005000000 .017500000	.4: .1: .3: .3:
TOTAL UNBUNDLED TRANSPORT CHAR UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INITERSWITCH INITIAL ADDITIONAL NULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL	GE - FL - ĒC 519 C 5191 ITCHING FUNCTION 23 28 28 27 65	ALITY .017500000 .005000000 .017500000 .005000000	.3: .4: .1: .3:
TOTAL UNBUNDLED TRANSPORT CHAR UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH INITIAL ADDITIONAL NULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL TEO SINGLE NETWORK	GE - FL - ĒC 519 C 5191 ITCHING FUNCTION 23 28 27 65 4	ALITY .017500000 .005000000 .017500000 .005000000 .017500000	.3 .4 .3 .3
TOTAL UNBUNDLED TRANSPORT CHAR UNBUNDLED END OFFICE - FL - E UNBUNDLED LOCAL SWITCHING - SW LOCAL ORIGINATING E0 SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INITIAL ADDITIONAL HULTIPLE NETWORK INITIAL ADDITIONAL INITIAL ADDITIONAL TEO	GE - FL - ĒC 519 C 5191 ITCHING FUNCTION 23 28 27 65 4	ALITY .017500000 .005000000 .017500000 .005000000 .017500000	.3 .4 .3 .3

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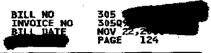
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BILL NO 305 CHARACTER INVOICE NO 30509 BILL DATE NOV 22,2000 PAGE 123

* * * * * * * * LOCAL USAGE FOR OFFICE MIAMFLNDDS0 * * * SEP 22 00 THRU OCT 21 00 * * * * * * RATE CATEGORY ACCESS ORIGINATING QUANTITY RATE AMOUNT EO MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL 12 ·7 .017500000 .21 .04 TERMINATING TEO MULTIPLE NETWORK INTERSWITCH INTIAL ADDITIONAL .21 .07 12 13 .017500000 .065000000 ----2.77 2.77 TOTAL ULS - SWITCH FUNC 288 TOTAL UNBUNDLED END OFFICE CHARGES - FL - EC 5191

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		DATE	AHOUNT	
RATE CATEGORY	QUANTITY	RATE	ATILIUM	
UNBUNDLED TRANSPORT SHARED TRANS	PORT - FL - EC	5191	1	
LOCAL			•	
UNDETERMINED ROUTING				
ORIGINATING Hystflyndso ~ 015 miles	18	.000012000	.81	
HMSTFLNARSO - 011 MILES	1	.000012000	.01	
MIAMFLAEDSO - 013 HILES	47	.000012000	.01	
MIANFLAL63E - 016 MILES		900012000	.01	
NIAMFLAPDSO - 014 MILES	2 1 2 5 8 77	.000012000	.81	
MIAMFLBA85E - 015 MILES	2	.000012000	.01	
NIAMFLBCDS0 - 017 MILES	5	.000012000	.01	
HIANFLBRDS0 - 021 HILES	_8	.000012000	.01	
NIAMFLCADSD - 007 HILES	ų	.000012000	.01 .01	
MIANFLOBRS1 - 010 MILES	. 3	.000012000 .000012000	.01	
MIAMFLFLDSO - 015 MILES	L L	.000012000		
MIAMFLGRDS0 - 017 MILES MIAMFLGRDS1 - 017 MILES	1,604	.000012000	.01 .33	
MIANFLHLDSO - 017 MILES	1,004	.000012000	.01	
MIANFLKEDSO - 017 MILES	ĩ	.000012000	.01	·
MIAMFLME32E - 016 MILES	19	.000012000	.01	
MIAMFLOL68E - 020 MILES	1	.000012000	.01	
MIANFLPB88E - 014 MILES	26	.000012000	. 91	
MIAMFLPLDS0 - 011 MILES	14	-000012000	.01	
MIANFLRRDSO - 010 MILES	109	.000012000	.01	
MIAMFLSODSO - 005 MILES	125	.000012000	.01	
MIAHFLWN26E - 011 MILES	6 1 2 2 2 2 9 5	.000012000 .000012000	.01	
MIANFLYJCM5 - 026 MILES MIAPFLYODS0 - 012 MILES	1	.000812000	.01	
MIAPFLYODSO - 012 MILES NDADFLAC94E - 025 MILES	22	.000012000	.01	
NDADFLBRDS0 ~ 022 MILES	5	.000012000	.01	
NDADFLORDS0 - 025 MILES	ų į	.000012008	.01	
NDADFLGG1KD - 025 MILES	<u>Ś</u>	.000012000	.01	
OJUSFLTLDS2 - 028 MILES	1	.000012000	. 01	
PRRNFLMADSO - 008 MILES	293	.000012000	.03	and the second second
FTLDFLWADS1 - 036 MILES	3	.000012000	.01	
HMSTFLEARSO - 015 MILES	3	.000012000	.01	
TANDEM				
ORIGINATING		.000012000	.01	
FTLDFLATCH1 - 041 MILES FTLDFLANCM2 - 037 MILES	1	.000012000	.01	a di secondo di second
FTLDFLANCM2 - 037 MILES FTLDFLHQCM2 - 040 MILES		.000612000	.01	
FTLDFLTBCM4 - 036 MILES	. 1	.000012000	.ci	
MIAMFLAEDS0 - 013 MILES	î	.000012000	.01	
MIAMFLAFCM1 - 017 MILES	30	.000012000	. 01	·.
MIAMFLAPDSO - 014 MILES	1	.000012000	.01	
MIAMFLHLDS0 - 017 MILES	1	.000012000	.01	
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		BILL NO INVOICE NO BILL DATE	305 3059 NOV 22,2000 PAGE 125
	• •		PAGE 125

• •			125
X X X X X X X X X LOCAL USAGE OCT 22	FOR OFFICE MIAMFLWDD: 00 THRU NGV 21 00	\$0 * * * * * *	****
RATE CATEGORY	QUANTITY	RATE	AMOUN
MIANFLNHDSO - 023 HILES		000012080	.01
MIAMFLPB88E - 014 HILES		000012000	.01
MIAMFLYJCHO - 026 MILES	43 .	00001200B	.0]
MIAMFLYJCH5 - 026 MILES		000012800	.01 .01
NDADFLGGCN4 - 025 MILES NDADFLGGCN5 - 025 MILES		000012000 000012000	.01
NDADFLGGCAS - 025 MILES		000012000	.01
NDADFLGGOIT - 025 MILES	40	000012000	.01
0.AUSFLTLCH1 - 028 MILES	41 .	000012000	.01
PRRNFLAECHI - 004 MILES		000012000	01
NDADFLGG03T - 025 HILES	7.	080012000	.01
ACCESS TANDEM			
ORIGINATING			
MIANFLGROST - 017 MILES		000012000	.01
NDADFLGG01T - 025 MILES	2.	000012000	. 01
TERMINATING			
MIAMFLGROST - 017 MILES NDADFLGG01T - 025 MILES	10 -	669012060 000812060	.0]
NDADFLGGUII - 025 MILES	4U +	NAADTSANA	. Ų.
TOTAL UT SHRD TRANS	2,712		.89
UNBUNDLED TRANSPORT FACILITIE	S TERMINATION EO TO E	0 - FL - EC 51	191
LOCAL			
UNDETERMINED ROUTING		000500880	1.20
ORIGINATING TANDEM	2,401 -	000200000	1.24
ORIGINATING	187 .	000500000	.09
,			
TOTAL UT F TERM EO-EO	2,588		1.29
UNBUNDLED TRANSPORT FACILITIE	S TERMINALION ED TO T	ANDER - FL - 1	C 2191
LOCAL			
ORIGINATING	47 .	000500000	. 02
ACCESS			
TANDEM	-	****	à.
ORIGINATING		000500000 000500000	. 01
TERMINATING	20 ·	~~~~~	
TOTAL UT F TERM ED-TAN			
JUINE OF FILMI LY INT			• • •

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		BILL NO INVOICE NO BILL DATE	305 3050 NOV 22,20 PAGE 126	
			PAGE 126	
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RATE CATEGORY	DO THRU NOV 21 D	RATE	AMOUNT	
	•	510]		
UNBUNDLED TRANSPORT TANDEN SW Local				
UNDETERMINED ROUTING ORIGINATING TANDEM	2,401	.000290000	.70	
ORIGINATING ORIGINATING ACCESS	40 193	.000290000 .000290000	.01 .06	
TANDEM ORIGINATING TERMINATING	2 50	.000290000 .000290000	.81 .01	
TOTAL UT TANDEM SW Total Unbundled Transport Cha	2,686		.79 3.03	
	FC 5191			
UNBORDLED END OF THE SWITCHING - S LOCAL ORIGINATING EO	WITCHING TOACTION			
STNGLE NETWORK	• •			
INTRASWITCH INITIAL ADDITIONAL	236 198	.017500000 .06500000	4.13 .99	• • •
INTERSWITCH	449	.017500000	7.86	
ADDITIONAL MULTIPLE NETWORK	1,989	.00300000		
INTERSWITCH INITIAL	76 121	.017500000 .005000000	1.33	
ADDITIONAL TEQ SINGLE NETWORK				· · ·
INTERSWITCH INTIAL	443	.017500600	7.75	
ADDITIONAL MULTIPLE NETWORK	1,988	, 205000000	7.71	
INTERSWITCH INITIAL	- 8 - 3	.017500000 .005000000	.14 .02	
ADDITIONAL ACCESS	-			
ORIGINATING				
		AT 75 4444	3.13	
MULTIPLE NETWORK Interswitch	179	.017500000		
MULTIPLE NETWORK	179	•	ONTINUED	

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* • * * * * * * * LOCAL USAGE F OCT 22 0	OR OFFICE MIAMF	LWDDS0 × × × × 0	*****
RATE CATEGORY ADDITIONAL TERMINATING TEO	QUANTITY 148	RATE .005090000	AMOUNT
MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL	328 299	.017500000 .095000000	5.74 1.50
TOTAL ULS - SWITCH FUNC TOTAL UNBUNDLED END OFFICE CHAR	6,465 GES - FL - EC 5	191	53.83 53.83
TOTAL LOCAL USAGE CHARGES FOR O	FFICE HIANFLWDD	so	63.35

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JU	L 22 00 THRU AUG 21 0	8	
RATE CATEGORY	QUANTITY	RATE	AMOUN
UNBUNDLED TRANSPORT SHARE! ACCESS Tandem Terminating Ndadflegoit - 004 Mill			. 01
TOTAL UT SHRD TRANS	1		.01
UNBUNDLED TRANSPORT FACIL	ITIES TERMINATION EO	TO TANDEM - FL - E	5191
TANDEM TERMINATING	. 1	. 900588000	.01
TOTAL UT F TERM EQ-TAN	1		, 01
UNBUNDLED TRANSPORT TANDE	M SWITCHING - FL - EC	5191	
TANDEM TERMINATING	1	.000290000	.01
TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT	CHARGE - FL - EC 519		.01 .03
UNBUNDLED END OFFICE - F UNBUNDLED LOCAL SWITCHING ACCESS TERMINATING		IALITY	
TEO MULTIPLE NETWORK INTERSWITCH	_		
INITIAL	1	.017500000	. 02

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BILL ND Invoice no	305	
BILL DATE	NOV 22,2000 PAGE 129	· · · · ·

TE CATEGORY	QUANTITY	RATE	AMOUNT	
IBUNDLED TRANSPORT SHARED TRAN Access Tandem	SPUKI - FL - EC	2141		
ORIGINATING NDADFLGG04T - 004 MILES Terminating	23	.000012000	.01	
NDADFLGGOIT - 004 HILES	1	.000012000	.01	
DTAL UT SHRD TRANS	24		.02	• •
BUNDLED TRANSPORT FACILITIES	TERMINATION EO	to tanden - FL - I	EC 5191	
ACCESS TANDEM			·	10 No.
ORIGINATING	23	.000500000	.01	
TERHINATING	1	.000500000	.01	
DTAL UT F TERM EO-TAN	24		.02	·
NBUNDLED TRANSPORT TANDEN SWIT ACCESS TANDEM	CHING - FL - EC	5191		
ORIGINATING TERMINATING	23 1	.000290000 .000290000	.01	
(ENTINA) END	· •			· · ·
DTAL UT TANDEN SW	24		.02	
OTAL UNBUNDLED TRANSPORT CHARG		1	. 06	
NBUNDLED END OFFICE - FL - EC NBUNDLED LOCAL SWITCHING - SWI Access	TCHING FUNCTION	ALITY		
ORIGINATING EQ	·.			
MULTIPLE NETWORK				
INTERSWITCH INITIAL	7	.017500000	.12	
ADDITIONAL TERMINATING	16	.005000000	. 08	
TED MULTIPLE NETWORK			21 C	
INTERSWITCH INITIAL	1	.017500000	.02	.'
			· · · -	

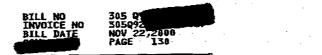
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* * * * * * * LOCAL USAGE FOR OFFICE NDADFLBRDS0 * * * * * * * * * * * Aug 22 00 Thru SEP 21 00 Aug 22 Thru SEP 06

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	RATE CATEGORY	QUANTITY RATE	AMOUNT	
	TOTAL ULS - SWITCH FUNC Total Unbundled end office	24 CHARGES - FL - EC 5191	.22	
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·	· .		BILL NO INVOICE NO	305 0 30599
		i	BILL DATE	NOV 22,2000 PAGE 131
·.	* * * * * * * * * LOCAL US/ AUG	AGE FOR OFFICE ND/ 22 00 THRU SEP 21 SEP 07 THRU SEP 21	60	******
	RATE CATEGORY	QUANTITY	RATI	e amoun
	UNBUNDLED TRANSPORT SHARED ACCESS TANDEH	TRANSPORT - FL -	EC 5191	
•	ORIGINATING NDADFLGG04T - 004 MILES	5 16	.099612	.01
	TOTAL UT SHRD TRANS	16		.01
	UNBUNDLED TRANSPORT FACILIT ACCESS TANDEN	TIES TERMINATION 1	EO TO TANDEM	- FL - EC 5191
	ORIGINATING	16	.080500	10. 060
·.	TOTAL UT F TE rn Eo-tan	16		.81
	UNBUNDLED TRANSPORT TANDEM	SWITCHING - FL -	EC 5191	
:	TANDEM ORIGINATING	16	.000290	.01
	TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT (16 HARGE - FL - EC	5191	.01
	UNBUNDLED END OFFICE - FL UNBUNDLED LOCAL SWITCHING ACCESS ORIGINATING		CONALITY	
	EO MULTIPLE NETWORK Interswitch Initial	7	.017500	000 .12
	ADDITIONAL	9	.005000	
				.17

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BILL ND 305 Q INVOICE ND 305Q92 BILL DATE NOV 22,2000 PAGE 132

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	RATE CATEGORY	QUANTITY	RATE	AMOUNT		
·	UNBUNDLED TRANSPORT SHARED TRA	UNSPORT - FL - EC	5191	•		
	UNDETERMINED ROUTING ORIGINATING	4	*****	63		
	HLWDFLPEDS0 - 005 MILES HLWDFLWHDS0 - 006 MILES	43	.000012000 .000012000	.01 .01		
	MIAMFLDADSO - 012 MILES MIAMFLGRDSO - 012 MILES	1	.000012000	.01 .01		
	MIAMFLHLDSO - 006 MILES	2 12	.000012000	.01		
	MIANFLME32E - 011 MILES MIANFLNMDSO - 006 MILES	10	.000012000	.01		
	MIANFLNSDSO - 007 MILES MIANFLOL68E - 093 MILES	2 15	.000012000 .000012000	.01 .01		
·	MIAMFLYJCM5 - 014 MILES MIANFLYIDS6 - 012 MILES	1	.000012000 .000012000	.01 .01		
	NDADFLAC94E - 006 NILES	6	.000012800	.01		
	NDADFLGGDS0 - 004 MILES NDADFLOLDS0 - 007 MILES	68	.000012000 .900012000	.01 .01		
	FTLDFLHQCM2 - 018 NILES FTLDFLWADS1 - 015 MILES	1 2	.000012000 .000012000	.01 .01		
	TANDEM	-			· · · ·	
	DRIGINATING NDADFLGG03T - 004 MILES	1	.000012000	.01		
	BCRTFESNCMI - 030 MILES BCRTFETWH01 - 035 MILES	1	.000012000 .000012000	.01 .01		
• .	FTLDFLANCM2 - 016 HILES FTLDFLFTCH1 - 015 MILES	2 1	.000012000 .000012000	.01 .01		
	FTLDFLTBCH4 - 015 MILES	é	.000012000 .000012000	.01		
.,	NIAMFLAPDSO - 010 MILES	1	.000012000	.01		
	HIAMFLHLDS0 - 906 MILES MIAMFLYJCM0 - 014 MILES	2 1	.000012000 .000012000	.01 .01		
	NIANFLYJCMS - 014 MILES NDADFLGGCM6 - 004 MILES	6 2	.000012000 .000012000	.01 .81		
÷	ABISELTICMY - AB7 HTLES	5	.000012000	01 .01	:	
	PMBHFLJKCH2 - 004 MILES ACCESS	T	.000012000			
	TANDEM ORIGINATING					
1	NDADFLGG04T - 004 MILES	51	.000012000	.01		· · · · ·
	TERMINATING NDADFLGG04T - 004 MILES	33	.000012000	.01	·	a generation de la companya de la co
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		IN	LL NO VOICE NO LL DATE	305 09 305092 NOV 22,200 PAGE 133			
	* * * * * * * * * LOCAL USAGE SEP 22	FOR OFFICE NDADE	LBRDS0 × ×	*****	* *	•	
	RATE CATEGORY	QUANTITY	RATI	Ľ	AMOUNT		
	TOTAL UT SHRD TRANS	298			.32	* .	· · ·
	UNBUNDLED TRANSPORT FACILITIES	TERMINATION ED	TO EO - FL	- EC 5191		,	
· .	LOCAL UNDETERMINED ROUTING ORIGINATING TANDEN	172	. 808580	900	.09	· ·	
	ORIGINATING	26	.000508	000	.01		
;	TOTAL UT F TERM EO-EO	198			.10	·	
	UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM					:	•
	ORIGINATING ACCESS	1	,098500	000	.01		· ·
· ·	TANDEM ORIGINATING TERMINATING	51 33	.000500 .000500		.03 .02		· · · ·
	TOTAL UT F TERM EO-TAN	85			.06		
	UNBUNDLED TRANSPORT FACILITIES LOCAL TANDEM	TERMINATION TO	PS TO EO -	FL - EC 5191			
	ORIGINATING	1	. 808500	009	.01		
	TOTAL UT F TERN TOPS-EO	1			.01		
	UNBUNDLED TRANSPORT TANDEM SWI LOCAL	TCHING - FL - E	5191				1
	UNDETERNINED ROUTING ORIGINATING TANDEM	172	.000290	000	. 05		
	ORIGINATING ACCESS	27	.000298	909	.01	•	
'	TANDEM ORIGINATING TERMINATING	51 33	.000290 .060290		.81 .01	. •11	·

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BILL NO INVOICE NO 305 9 305 30599 NOV 22,2000 NOV 22,2000 BILL DATE

RATE AMOUNT RATE CATEGORY QUANTITY ____ -----.08 TOTAL UT TANDEM SW 283 TOTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 UNBUNDLED END OFFICE - FL - EC 5191 UNBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY LOCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITIAL ADDITIONAL INTERSWITCH 25 42 .017508000 .44 . 005000000 .77 .62 44 123 .017500000 INITIAL ADDITIONAL MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL .017500000 .33 19 13 TEO . SINGLE NETWORK INTERSWITCH INITIAL ADDITIONAL 44 123 .017500000 .77 .0050000006 MULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL .017500000 .05 .03 3 5 .005000000 ACCESS DRIGINATING EŌ MULTIPLE NETWORK .817500000 .14 INITIAL 8 44 ADDITIONAL TERMINATING TEO NULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL 117 .017500800 2.05 86 .005000000 .43

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	* * * * * * * * * LOCAL USAGE FOR SEP 22 00 T			* * * * * * Triuoma		•	
	RATE CATEGORY TOTAL ULS - SWITCH FUNC TOTAL UNBUNDLED END OFFICE CHARGES	QUANTITY 696 5 - FL - EC 5191	RATE	6.75 6.75	•		
	UNBUNDLED MISCELLANEOUS - FL - EC DIRECTORY ASSISTANCE CALL COMPLETION	5191 1	.030090900	.03	•		
	TOTAL UNBUNDLED MISCELLANEOUS CHAR	RGES - FL - EC S	191	.03			

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BILL ND INVOICE NO BILL DATE	305 305 Nov 22,2000 PAGE 136	
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RATE CATEGORY		QUANTITY	RATE	AHOUN
UNBUNDLED, TRANSPORT	SHARED TRANS	PORT - FL - EC	5191	
LOCAL				
UNDETERMINED ROUT	ING			
ORIGINATING				
FTLDFLTBCN4 - 0		21	.000012009	.01
FTLDFL92DS0 - 0	06 MILES	5	-000012000	. 81
HLWDFLHA4SE - 0	08 MILES	13	.000012000	.01
HLWDFLMADSO - 0	09 MILES	9 207 159 10 17	.000012000	.61
HLWDFLPEDSO - 0		20/	.000012000	.01
HLWDFLWHDSO - 0		153	.000012000	.01
MIAMFLAEDSO - 0	12 MILES	14	.000012000	.01
MIAMFLAL63E - 0	UY HILES	1/	.000012000 .000012000	.01
MIAMFLAPDSO - 0 MIAMFLBCDSO - 0		7	.000012000	.01
MIAMFLBRDS0 - 0	TT MTLES	5	.000012000	.01
MIAMFLERUSU - 0		놑	.000012000	.01
MIAMFLOBRS1 - C		3	.000012000	.01
MIAMFLGRDS1 - (.000012000	.01
NIAMFLHLDSD - (1 1 47	.000012000	.01
MIAMFLME32E - (NII MTLES	62	ወብሰስን ማስጸሰ	.01
MIANFLNMDSO - (62 19 51	.000012000	.01
MIAMFLNSDSD - 1		<u>ši</u>	.000012000	.01
MIAMFLOL68E - 6		1 84	.008012000	.01
NTAMFLPB88E - C	09 MILES	16	.000012000	.01
MIAMFEPEDSO - (12 MILES	3	.000012000	.01
MIAMFLRRDS0 - (16 MILES	1 :	.000012000	.01
MIAMFLSH75E - (107 MILES	16 3 1 27	.000012000	.0]
MIAMFLSODS0 - 0	20 MILES			-0]
MIAMFLYJCM5 - (20 24	.000012000	.0]
MIANFLWKDSO -		24	.000012000	.01
MIANFLYIDS5 -		1	.000012000	.0]
MIAPFLYODS0 -	DII MILES	20	.000012060	.0]
MIAQFLOGDSO -	102 MILLES	1 20 12 4 <u>5</u>	.000012000	. 0]
NDADFLAC94E -	NOG MILES	42	.000012080	.0]
NDADFLGGCH4 -		5	.000012000 .000012000	.01
	04 MILES	2 498	.000012000	. 01
NDADFLGGDS0 - 4 NDADFLGG1KD - 4		470	.000012000	. 0]
NDADFLOGIND - 1		1	.000012000	. 01
PRRNFLMADS0 -		Î 8	.000012000	. 01
DRBHFLDFCM0 -		23	.000012000	. 01
FTLDFLANCN2 -		19	.000012000	. 01
TANDEM	TO HELLS		1000020000	
GRIGINATING		. :'		
BCRTFLSNCH1 -	130 MTLES	3 2	.000012000	.01
BCRTFLTWHO1 -	35 MILES	ž	.000012000	. 01

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	RATE_CATEGORY	QUANTITY	RATE	AMOUNT
	FTLBFLAICH1 - 020 HILES	.1	.000012000	
	FTLDFLANCH2 - 016 NILES	103	.000012000	.02
	FTLDFLFTCH1 - 015 HILES	23	.000012000	.01
	FTLDFLHQCM2 - 018 NILES	1	.006012000	.01
	FTLDFLTBCH4 - 015 HILES	42	.000012000	.01 .01
	NIAMFLAFCH1 - 012 HILES	15	.000012000	
	MIAMFLAL63E - 009 NILES	I I	.000012000 .000012000	.01 .81
	MIAMFLAPDS0 - 010 MILES		.000012000	
	MIAMFLFLDSD - 012 MILES	1 103 23 1 45 15 1 4 1 3 21	.900012000	.01
	MIAMFLGRDSO - 012 NILES		300012900	.01
	MTAMFLHLBSO - 006 MILES		000012000	.01
	MIANFLNMDSO - 006 MILES MIANFLPLDSO - 012 MILES	1	600012000	.01
	MIAMFLYUNZ6E - 013 MILES		460072000	.01
	MIAMFLYJCMO - 014 MILES		000012000	_ 01
	NIAMFLYJCH2 - 014 MILES	र	000012800	.01
	MIAMFLYJCH5 - 014 HILES	94	.000012000	.02
	NDADFLGGCM4 - 004 MILES	5	.000012009	.01
. 1	NDADFLGGCH5 - 004 MILES	4	.000012000	.01
	NDADFLGGCM6 - 004 MILES	3	.000012000	.01
	NDADFLGGDS0 - 004 MILES	2	.000012000	. 01
	DJUSFLTLCM1 - 007 MILES	125	.000812000	.01
	PMBHFLJKCN2 - 004 MILES	5 2	.000012000	.01
	PRRNFLAECH1 - 022 MILES	5 1	.000012000	.01
	MIAMFENSDSO - 007 MILES	5 2	.000012000	.01
	NDADFLGG03T - 004 HILES	5 4	.000012000	.01
	ACCESS		.000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000 .000012000	
	TANDEM			
	DRIGINATING			
	NDADFLGG04T - 004 MILES	5 205	.000012000	.01
	TERNINATING			-1
·	NDADFLGG04T - 004 MILES	5 <u>185</u>	.000012000	.01
	TOTAL UT SHRD TRANS	2,329		.71
	UNBUNDLED TRANSPORT FACILIT	TIES TERMINATION	EO TO EO - FL - E	C 5191
	LOCAL		-	
	UNDETERMINED ROUTING	_		
	ORIGINATING	1,443	.000500000	.72
	TANDEM			
	ORIGINATING	476	. 000,500000	. 24
·	TOTAL UT F TERN ED-ED	1,919		.96

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TE CATEGORY	QUANTITY	RATE	AMOUNT
BUNDLED TRANSPORT FACILITIES TERM	INATION ED	TO TANDEM - FL - E	C 5191
TANDEM ORIGINATING CCESS	4	.000500000	.01
TANDEM ORIGINATING TERMINATING	205 185	.000500000	.10 .09
	394		.20
TAL UT F TERM EO-TAN			
BUNDLED TRANSPORT FACILITIES TERM	INATION TOP	S TO EO - FL - EC	5191
OCAL TANDEM			
ORIGINATING	1	.00050000	.01
TAL UT F TERM TOPS-ED	· · 1 ·		.01
BUNDLED TRANSPORT TANDEM SWITCHIN	i <mark>g - FL</mark> - EC	5191	
UNDETERMINED ROUTING ORIGINATING TANDEM	1,443	.000290000	.42
ORIGINATING	479	.000298000	.14
CCESS TANDEM	•		
ORIGINATING	205	.000290000	.06 .05
TERMINATING	185	.000290000	.05
••••••			.67
STAL (IT TANDEM SW	EI - EC E19	n	2.55
TAL UNRUNN ED TRANSPORT CHARGE -			
TAL UNBUNDLED TRANSPORT CHARGE -			
DTAL UT TANDEM SW DTAL UNBUNDLED TRANSPORT CHARGE - IBUNDLED END OFFICE - FL - EC 51 IBUNDLED LOCAL SWITCHING - SWITCH OCAL	91 ING FUNCTION	ALITY	
BUNDLED LOCAL SWITCHING - SWITCH OCAL ORIGINATING	91 ING FUNCTION	IALITY	· ·
BUNDLED LOCAL SWITCHING - SWITCHI OCAL	91 ING FUNCTION	IALITY	
IBUNDLED LOCAL SWITCHING - SWITCH) Ocal Originating Eo Single Network Intraswitch	ING FUNCTION	IALITY	6.65
BUNDLED LOCAL SWITCHING - SWITCH OCAL ORIGINATING EQ SINGLE NETWORK	31 ING FUNCTION 380 346	ALITY .917500000 .09500000	6.65 1.73
BUNDLED LOCAL SWITCHING - SWITCH) OCAL ORIGINATING EO SINGLE NETWORK INTRASWITCH INITAL	ING FUNCTION	ALITY .017508000	6

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BILL NO INVOICE NO BILL DATE	305 305 NOV 22 PAGE	,2000	

NULTIPLE NETWORK INTERSWITCH INITIAL ADDITIONAL EO SINGLE NETWORK INTERSWITCH	314 219	.017500008 .005000000	5.50
INITIAL ADDITIONAL EO SINGLE NETWORK INTERSWITCH			5 50
ADDITIONAL TEO SINGLE NETWORK INTERSWITCH			
EO SINGLE NETWORK INTERSWITCH			1.10
SINGLE NETWORK INTERSWITCH			
INTERSWITCH		· · · · · · · · · · · · · · · · · · ·	
INITIAL	634	.017500000	11.10
ADDITIONAL	753	.005000000	3.77
WLTIPLE NETWORK			
INTERSWITCH			
INITIAL	22 39	.017500000	.39
ADDITIONAL	39	,005000800	.20
SS			
GINATING	· .		
0			
ULTIPLE NETWORK			
INTERSWITCH	·		1
INITIAL	.91	-017500000	1.59
ABDITIONAL	253	.085000000	1.27
RMINATING			
TEO			
HULTIPLE NETWORK			
INTERSWITCH			17 10
INITIAL	753	,017500000	13.18
ADDITIONAL	871	.005000000	4.36
	/ 0/8		65.74
ULS - SWITCH FUNC	6,065	107	65.74
UNBUNDLED END OFFICE CHARGES		171 · · · · ·	05.14
DLED MISCELLANEOUS - FL - EC 5	:1 01		
ECTORY ASSISTANCE CALL	1272		
PLETION	1	.030000000	.03
rtei tvn	-		
LY AUTOMATED CALL			
DLED LEC LIDB	1	.100000000	.10
CCP CLY FADD	-		
UNBUNDLED MISCELLANEOUS CHARG	5ES - FL - E	C 5191	.13
LOCAL USAGE CHARGES FOR OFFIC		~ A	76.30

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BILL DATE NOV 22,2000 BILL DATE PAGE 140		NOV 22,2000
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* * * * * * * * LOCAL USAGE FOR OFFICE NDADFLGGDS0 * * * AUG 22 00 THRU SEP 21 00 AUG 22 THRU SEP 06 RATE CATEGORY RATE AMOUNT QUANTITY UNBUNDLED TRANSPORT FACILITIES TERMINATION ED TO TANDEM - FL - EC 5191 ACCESS .01 🐇 . 009500000 ORIGINATING 1 * *** * * *** * ----TOTAL UT F TERM EO-TAN 1 .01 UNBUNDLED TRANSPORT TANDEN SWITCHING - FL - EC 5191 ACCESS ORIGINATING .000290089 .01 1 ____ .01 TOTAL UT TANDEM SW 1 TOTAL UNBUNDLED TRANSPORT CHARGE - FL - EC 5191 UNBUNDLED END OFFICE - FL - EC 5191 UNBUNDLED LOCAL SWITCHING - SWITCHING FUNCTIONALITY ACCESS ORIGINATING ED MULTIPLE NETWORK .017500000 .82 INITIAL 1 ----TOTAL ULS - SWITCH FUNC 1 TOTAL UNBUNDLED END OFFICE CHARGES - FL - EC 519102 .02

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BILL NO 305 INVGICE NO 3050 BILL DATE NOV 22 PAGE	141

RATE CATEGORY	QUANTITY	RATE	AMOUNT			
UNBUNDLED TRANSPORT FACIL ACCESS TANDEM	LITIES TERMINATION ED 1	to tanden - fl -	EC 5191			
ORIGINATING	28	.000500000	.01	. *		· · · ·
TOTAL UT F TERM EQ-TAN	28		.01			
UNBUNDLED TRANSPORT TANDE ACCESS TANDEM	EH SWITCHING - FL - EC	5191				
ORIGINATING	28	.000290000	.01	÷.		
TOTAL UT TANDEM SW		·				
TOTAL UNBUNDLED TRANSPORT	T CHARGE - FL - 60 519	1	.01 .02			·
UNBUNDLED END OFFICE - F UNBUNDLED LOCAL SWITCHING ACCESS	FL - EC 5191 G - SWITCHING FUNCTION	ALITY				n de la constante de la constan La constante de la constante de
GRIGINATING FO	,				·	
MULTIPLE NETWORK INTERSWITCH						
INITIAL	5 24	.017500000 .005000000	.09 .12			
ADDITIONAL						

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BILL NO INVOICE NO BILL DATE	305 3059 Nov 22,2000 PAGE 142
	1 444

* * * * * * * * * LOCAL USAGE FOR OFFICE NDADFLGGDS0 * * * SEP 22 08 THRU OCT 21 00

RATE CATEGORY	QUANTITY	RATE	AMOUNT	
UNBUNDLED TRANSPORT SHARED TH	ANSPORT - FL - EC	519 1		
LOCAL UNDETERMINED ROUTING				
ORIGINATING			.01	
HLWDFLWHDSO - 005 MILES	6 3		.01	
MIAMFLAEDSO - 014 MILES Miamflal63e - 010 Miles	. 3.	.000012000	.01	
MIAMFLBA85E - 014 MILES		.000012000	-01 -01	
MIAMFLCADS9 - 918 MILES	1 5 1 13 5 3 2 2 6	.000012000	.01	÷.
MIANFLORDS1 - 012 MILES MIAMFLHLDS0 - 009 HILES		.000012000	.01	
MIAMFLICDS0 - 008 NILES	13	.000012000	. 01 . 01	
MIAMFLNE32E - 011 MILES	. 5	.000012000 .000012000	.01	
MIAMFLNSDS0 - 808 MILES MIAMFLOL68E - 805 MILES	2	.000012000	.01	
MIAMFLEB88E - 011 MILES	2	.000012000		
MIAMFLPLDS0 - 014 MILES	6	.000012000 .000012000		
MIAMFLRRDS0 - 017 MILES MIAMFLSH75E - 007 MILES	23 23 23 23 23 23 23 23 23 23	.000012000	.01	
MIAMFLSODSO - 022 MILES	Ž	.000012000	.01 .01	
MIANFLWDDSD - 025 MILES	2	.000012000	.01	
MIANFLPVDS0 - 015 MILES MIANFLWKDS0 - 015 MILES	41 5	.800012000	.01	
MTAPFLYODS0 - 013 MILES	1	.000012000	.01	
NDADFLAC94E - 003 MILES	4 26	.000012000	.01	
NDADFLBRDS0 - 004 MILES NDADFLOLDS0 - 003 MILES	3	.000012000	.61	
PRRNFLMADSO - 025 MILES	1 6	.000012000	.01 .01	
FTLDFLJADS0 - 014 MILES	6	.000012000 .000012000	.01	
HLWDFLPEDS0 - 007 MILES Tandem	0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
ORIGINATING	· _	*****	.01	
BCRTFLSNCH1 - 029 MILES	1	.000012000 .000012000	.01	
MIANFLAPDSO - 012 MILES Miamflfldso - 013 Miles	2 1 2 5 1	.000012000	.01	
MTAMFLHLDS0 - 009 MILES	· 1	.000012800	.01 .D1	
MIANFLYJCHO - 017 MILES	2	.000012000 .000012000	.01	
MIANFLYJCM5 - 017 MILES NDADFLBRDS0 - 004 MILES	. 1	.000012000	.01	
NUADI LORMSO OUT MILLS	— .	· · ·		
	192		.33	
TOTAL UT SHRD TRANS	_/L			÷

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RATE CATEGORY	QUANTITY	RATE	AMOUNT		
UNBUNDLED TRANSPORT FACILITIES T	ERMINATION ED	TO EO - FL - EC 51	91	· . ·	
LOCAL UNDETERMINED ROUTING					
ORIGINATING TANDEM	166	.000500000	. 98		
ORIGINATING	8	.000500000	.01	· · · ·	
TOTAL UT F TERM EO-EO	174		.09		
UNBUNDLED TRANSPORT FACILITIES T	ERMINATION ED	TO TANDEN - FL - E	C 5191	•	
TANDEN		AAA700044		.'	
ORIGINATING ACCESS	4	.000500000	.01		• •
ORIGINATING	71	.000500000	.04		
TERMINATING	369	.000500000	.18	. 7	
TOTAL UT F TERM EO-TAN	444		.23		
INBUNDLED TRANSPORT TANDER SWITC	HING - FL - EC	5191		· · · ·	
UNDETERMINED ROUTING					
ORIGINATING TANDEM	166	.000290000	.05		•
ORIGINATING	11	.000290000 .000290000	.01 .01		
ORIGINATING ACCESS	4 4	.000270000		· .	۰.
TANDEM ORIGINATING	71	.000290000	. 02		
TERMINATING	369	.000290000	.11		
TOTAL UT TANDEN SW	618	. 	.20	•	· · ·
TOTAL UNBUNDLED TRANSPORT CHARGE	5 - FL - ÊC 519	1	.85		
UNBUNDLED END OFFICE - FL - EC UNBUNDLED LOCAL SWITCHING - SWIT		IALITY	•		
LOCAL ORIGINATING					
EO SINGLE NETWORK	· · ·				
INTRASHITCH					
INITIAL	36 25	.017500000 .005000000	.63 .13		
ADDITIONAL					



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RATE CATEGORY	QUANTITY	RATE	
INTERSWITCH INITIAL	59	.017500090	
ADDITIONAL MULTIPLE NETWORK	68	.005000000	
INTERSWITCH	32	.017508808	
INITIAL ADDITIONAL TEO	20	.005000000	
SINGLE NETWORK			
INITIAL	57 67	.017500000	
ADDITIONAL MULTIPLE NETWORK INTERSWITCH	¢7	.005000000	
INITIAL	26	.017500000	
ADDITIONAL	17	.005000000	
ACCESS ORIGINATING ED		· .	
MULTIPLE NETWORK INTERSWITCH	-	.017500000	
INITIAL ADDITIONAL	51 606	805000000	
TERNINATING TEO			
MULTIPLE NETWORK			
INTERSWITCH	115	.017500069	
ADDITIONAL	318	.005000000	

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UNBUNDLED TRANSPORT SHARED TRANSPORT - FL - EC 5191 Local Undetermined Routing	AMOUNT
LOCAL NUMETER ROUTING	
CADE LERATAED ROOTING	
ORIGINATING Drbhflmadsø - 026 miles 1 .000012000	.01
DRBHFLMADS9 - 026 MILES 1 .000012000 FTLDFLCYDS9 - 018 MTLFS 2 .000012000	.01
	.01
FTLDFLMRDS0 - 013 NILES 8 .000012000 FTLDFLPLDS0 - 013 NILES 11 .000012000	.01
FTLDFLPLDS0 - 013 MILES 11 .000012000 FTLDFLSU74E - 017 MILES 1 .000012000	.01
FTLDFLSU74E 017 MILES 1 .000012000 FTLDFLTADC0 - 013 MILES 1 .000012000 FTLDFLWADS1 - 013 MILES 8 .000012000	.01
FILDFLWADS1 - 013 HILES 8 .000012000	.01
FTLDFL92DS0 003 HILES 49 .800012008	.01
HUDFLHAASE ~ 005 HILES 3 .000012000	.01
HL WDFLMADSO - 006 MILES 8 .000012000	. 01
HLWDFLPEDS0 - 007 MILES 332 .000012000	.03
HLWDFLWHDSO - 005 MILES 372 .000012000	.02
HINSTELHHIDSO - 038 MILES 14 .000012000	. 01
HUSTFLNARS0 - 033 MILES 29 .000012000	.01
HMSTFLMARSO - 033 HILES 29 .000012000 HIAMFLAEDSO - 014 HILES 87 .000012000	.01
MTAMFI AFCM1 - 012 MTLES 5 .000012000	.01
MIANFLAL63E - 010 MILES 117 .000012000	.01
MTANELAPOSO - 012 NTLES 1	,01
MIAMFLBA85E - 014 NILES 27 .000012000	.01
MIAMFLBASSE - 014 MILES 27 000012000 MIAMFLBASSE - 014 MILES 27 .000012000 MIAMFLBCDS0 - 010 MILES 7 .000012000 MIAMFLBRDS0 - 012 MILES 83 .000012000 MIAMFLCADS0 - 018 MILES 72 .000012000 MIAMFLDADSA - 012 MILES 72 .000012000 MIAMFLDADS0 - 012 MILES 28 .00012000 MIAMFLDADS0 - 012 MILES 28 .00012000 MIAMFLDADS1 - 012 MILES 1 .000012000 MIAMFLDADS2 - 012 MILES 6 .000012000	- 61
MIAMFLBRDS0 - 012 MILES 83 .000012000	.01
MTANFLCADS0 - 018 HILES 72 .000012000	.02
MIANFLDADSA - 012 MILES 4 .000012000	.01
HIAMFLDADS0 ~ 012 HILES 28 .000012000	.01
MIAMFLDADS2 - 012 MILES 1 000012000 MIAMFLDBRS1 - 017 MILES 6 .000012000	.01
MIAMFLDBRS1 - 017 MILES 6 .000012000	.01 .01
MIANFLFLDS0 - 013 MILES 16 .000012000	.01
	.04
MTANFLGRDS0 - 012 NTLES 2 .000012000	
MIAMFLGRDS1 - 012 MILES 254 .000012000	
MIANFLGRDS1 - 012 MILES 254 .000012000 MIANFLGRH12 - 012 MILES 2 .000012000	.01
MIAHFLGRDS1 012 MILES 254 .000012000 MIAHFLGRD12 012 MILES 2 .000012000 MIAHFLMDS0 009 MILES 2 .000012000	.01 .02
MIAMFLGRDS1 - 012 MILES 254 .000012000 MIAMFLGRH12 - 012 MILES 2 .000012000 MIAMFLGRH12 - 012 MILES 2 .000012000 MIAMFLMIDS0 - 009 MILES 183 .000012000 MIAMFLIDS0 - 008 MILES 183 .000012000	.01 .02 .01
MIANFLGRDS1 012 MILES 254 .000012000 MIANFLGRD12 012 MILES 2 .000012000 MIANFLMLDS0 009 MILES 183 .000012000 MIAMFLICDS0 - 009 MILES 183 .000012000 MIAMFLICDS0 - 008 MILES 51 .000012000 MIAMFLKEDS0 - 048 MILES 51 .000012000	.01 .02 .01 .01
MIANFLGRDS1 012 MILES 254 .000012000 MIANFLGRD12 012 MILES 2 .000012000 MIANFLMLDS0 009 MILES 183 .000012000 MIAMFLICDS0 - 009 MILES 183 .000012000 MIAMFLICDS0 - 008 MILES 51 .000012000 MIAMFLKEDS0 - 048 MILES 51 .000012000	.01 .02 .01 .01 .01
MIAMFLGRDS1 - 012 MILES 254 .000012000 MIAMFLGRH12 - 012 MILES 2 .000012000 MIAMFLMDS0 - 009 MILES 183 .000012000 MIAMFLMDS0 - 008 MILES 51 .000012000 MIAMFLKEDS0 - 018 MILES 51 .000012000 MIAMFLKEDS0 - 018 MILES 6 .000012000 MIAMFLKEDS0 - 018 MILES 1 .000012000 MIAMFLKEDS0 - 011 MILES 1 .000012000	.01 .02 .01 .01 .01 .01
MIAMFLGRDS1 - 012 MILES 254 .000012000 MIAMFLGRH12 - 012 MILES 2 .000012000 MIAMFLUDS0 - 012 MILES 123 .000012000 MIAMFLUDS0 - 009 MILES 123 .000012000 MIAMFLKDS0 - 008 MILES 51 .000012000 MIAMFLKEDS0 - 012 MILES 6 .000012000 MIAMFLKYDS0 - 012 MILES 1 .000012000 MIAMFLKZES 1 .000012000 .000012000 .000012000 MIAMFLMERS0 - .011 MILES 2 .000012000	.01 .02 .01 .01 .01 .01 .01 .03
MIAHFLGRDS1 - 012 MILES 254 .000012000 MIAHFLGRH12 - 012 MILES 2 .000012000 MIAHFLMIDS0 - 019 MILES 183 .000012000 MIAHFLMIDS0 - 049 MILES 183 .000012000 MIAHFLKDS0 - 048 MILES 51 .000012000 MIAHFLKDS0 - 018 MILES 51 .000012000 MIAHFLKDS0 - 012 MILES 1 .000012000 MIAHFLKPS0 - 011 MILES 1 .000012000 MIAHFLKDS0 - 011 MILES 2 .000012000 MIAHFLKDS0 - 011 MILES 2 .000012000 MIAHFLMES0 - 011 MILES 265 .000012000 MIAHFLNDS0 - 004 MILES 56 .000012000	.01 .02 .01 .01 .01 .01 .03 .01
MIAMFLGRDS1 - 012 MILES 254 .000012000 MIAMFLGRH12 - 012 MILES 2 .000012000 MIAMFLMIDS0 - 009 MILES 183 .000012000 MIAMFLMIDS0 - 008 MILES 183 .000012000 MIAMFLMIDS0 - 018 MILES 51 .000012000 MIAMFLMES0 - 012 MILES 1 .000012000 MIAMFLKEDS0 - 012 MILES 1 .000012000 MIAMFLMES2E - 011 MILES 2 .000012000 MIAMFLMES2E - 011 MILES 2655 .000012000 MIAMFLNDS0 - 008 MILES 56 .000012000	.01 .02 .01 .01 .01 .01 .01 .03
MIAHFLGRDS1 - 012 MILES 254 .000012000 MIAHFLGRH12 - 012 MILES 2 .00012000 MIAHFLMLDS0 - 019 MILES 183 .000012000 MIAHFLMLDS0 - 009 MILES 183 .000012000 MIAHFLKDS0 - 018 MILES 51 .000012000 MIAHFLKDS0 - 012 MILES 6 .00012000 MIAHFLKDS0 - 012 MILES 1 .000012000 MIAHFLKZE - 011 MILES 2 .000012000 MIAHFLMERS0 - 012 MILES 2 .000012000 MIAHFLMES2E - 011 MILES 265 .000012000 MIAHFLNDS8 - 004 MILES 56 .000012000 MIAHFLNDS8 - 004 MILES 56 .000012000 MIAHFLNSDS0 - 008 MILES 80 .000012000	.01 .02 .01 .01 .01 .01 .03 .01 .01
MIAHFLGRDS1 - 012 012 MILES 254 .000012000 MIAHFLGRH12 - 012 MILES 2 .000012000 MIAHFLMLDS0 - 019 MILES 183 .000012000 MIAHFLMLDS0 - 048 MILES 51 .000012000 MIAHFLKDS0 - 048 MILES 51 .000012000 MIAHFLKDS0 - 012 MILES 1 .000012000 MIAHFLKDS0 - 012 MILES 1 .000012000 MIAHFLKDS0 - 012 MILES 2 .000012000 MIAHFLKDS0 - 011 MILES 2 .000012000 MIAHFLKDS0 - 011 MILES 265 .000012000 MIAHFLNDS0 - 004 MILES 56 .000012000 MIAHFLNDS0 - 004 MILES 56 .000012000 MIAHFLNDS0 - 004 MILES 56 .000012000 MIAHFLNDS0 - 004 MILES 80 .000012000 MIAHFLNDS0 - 005 MILES 87 .000012000 MIAHFLNDL68E - 005 MILES 49 .000012000	.01 .01 .01 .01 .01 .03 .01 .01 .01 .01 .01
MIAHFLGRDS1 - 012 012 MILES 254 .000012000 MIAHFLGRH12 - 012 MILES 2 .000012000 MIAHFLMLDS0 - 019 MILES 183 .000012000 MIAHFLMLDS0 - 048 MILES 51 .000012000 MIAHFLKDS0 - 048 MILES 51 .000012000 MIAHFLKDS0 - 012 MILES 1 .000012000 MIAHFLKDS0 - 012 MILES 1 .000012000 MIAHFLKDS0 - 012 MILES 2 .000012000 MIAHFLKDS0 - 011 MILES 2 .000012000 MIAHFLKDS0 - 011 MILES 265 .000012000 MIAHFLNDS0 - 004 MILES 56 .000012000 MIAHFLNDS0 - 004 MILES 56 .000012000 MIAHFLNDS0 - 004 MILES 56 .000012000 MIAHFLNDS0 - 004 MILES 80 .000012000 MIAHFLNDS0 - 005 MILES 87 .000012000 MIAHFLNDL68E - 005 MILES 49 .000012000	01 .02 .01 .01 .01 .03 .03 .01 .01 .01 .01
MIAMFLGRDS1 - 012 012 MILES 254 .000012000 MIAMFLGRH12 - 012 MILES 2 .000012000 MIAMFLMIDS0 - 009 MILES 183 .000012000 MIAMFLMIDS0 - 008 MILES 183 .000012000 MIAMFLMIDS0 - 018 MILES 51 .000012000 MIAMFLKEDS0 - 018 MILES 1 .000012000 MIAMFLKEDS0 - 012 MILES 1 .000012000 MIAMFLMES0 - 011 MILES 2 .000012000 MIAMFLMES2E - 011 MILES 265 .000012000 MIAMFLNDS0 - 008 MILES 56 .000012000 MIAMFLNDS0 - 008 MILES 56 .000012000 MIAMFLNDS0 - 008 MILES 56 .000012000 MIAMFLNDS0 - 008 MILES 87 .000012000 MIAMFLNDS0 - 005 MILES 87 .000012000 MIAMFLNDS0 - 005 MILES 49 .000012000 MIAMFLNS050 - 014 MILES 64 .000012000	.01 .01 .01 .01 .01 .03 .01 .01 .01 .01 .01

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RATE CATEGORY HIAMFLSH75E - 007 MILES MIAMFLSDDSD - 022 MILES MIAMFLWDDSD - 025 MILES MIAMFLWD26E - 015 MILES MIAMFLYJCM5 - 017 MILES RATE .000012000 .000012000 .000012000 .000012000 .000012000 QUANTITY 120 175 123 54 17 AMOUNT .01 .05 .04 .01 .01 .01 .01 .01 .01 .01 .01 .03 .01 .01 .01 .01 .01 .01 .01 .01

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	MIAMFLYJCM5 - 017 MILES	17	.000012000	
	MIANFLPVDSQ - 015 MILES	37	.000012000	
• •	MIANFLWKDSO - 015 MILES	453	.000012000	
	MIANFLYIDS5 - 012 MILES	3	.000012000	
	MIAPFLYODSO - 013 MILES	11	.000012000	
	HIADFLOGDSO - 903 MILES	23	.000012008	
	MIASFL68DS0 - 015 MILES	1	.000012000	
	NDADFLAC94E - 003 MILES	87	.000012000	
	NDADFLBRDS0 - 004 MILES	642	.000012000	
	NDADFLOLDS0 - 003 MILES	120	- 000012000	
	PMBNFLEDDS0 - 015 MILES	<u>i</u>	.000012000	
	PRRNFLAECH1 - 024 MILES	ī	.000012000	
	PRRNFLMADSO - 025 MILES	SŜ	.000912009	
	DRBHFLDFCM0 - 026 MILES	13	.000012000	
	TANDEM			
	ORIGINATING			
	BERTFLENCH1 - 029 MILES	2	.000012000	
	FTLDFLAICHI - 018 MILES	រី	.000012000	
	FTLDFLAMCM2 - 015 MILES	2 1 17	.000012000	
	FTLDFLFTCH1 - 014 MILES	18	000012000	
	FTLDFLHQCM2 - 017 MILES	ĩ	.000012000	
	FTLDFLTBCM4 - 014 MILES	1 17 27	000012000	
	MIAMELAFCH1 - 012 MILES	27	.000012080	
	MIANFLAPDSO - 012 MILES	- <u>-</u>	.000012000	
	MIAMFLBA85E - 014 MILES	า	.000012000	
	MIAMFLFLDS0 - 013 MILES	ĩ	.000012000	
	MIAMFLHEDSD - 009 MILES	É	.000012000	
	MIAMFLPB88E - 011 MILES	51751	.000012000	
	MIAMFLPLDS0 - 014 MILES		.000012000	
	MIAMFLWM26E - 015 NILES	1	.000012000	
		ŧ	.000012000	
	MIANFLYJCHO - 017 NILES MIANFLYJCH2 - 017 NILES		.000012000	
	MIAMFLIJUNZ - 017 MILES	159	.000012000	
	NIAMFLYJCM5 - 017 MILES	137	.000012000	
	NDADFLBRDS0 - 004 HILES		.000012000	
	OJUSFLTLCM1 - 004 MILES	80		
	OJUSFLTLCH2 - 004 MILES	4	.000012000	
	PRRNFLAECH1 - 024 MILES		.000012000	
	HLWDFLPEDS0 - 007 MILES	ţ	.080012000	
	MIAMFLCADSO - 018 MILES		.000012000	
	NDADFLAC94E - 003 MILES	1 .	.880012008	
	NDADFLOLDS0 - 003 MILES	1	.000012000	

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		IN	NOICE NO 3	05 050 07 22,2000 AGE 147
	* * * * * * * * ±0CAL USAGE FC OCT 22 04	THRU NOV 21	LGGDS0 * * *	* * * * * * *
	RATE CATEGORY ACCESS	QUANTITY	RATE	AMOUN
+	UNDETERMINED ROUTING Originating Fyldfljadsø - 014 Miles	1	.000012000	.01
	· · · · · · · · · · · · · · · · · · ·	4,846		1.17
	TOTAL UT SHRD TRANS UNBUNDLED TRANSPORT FACILITIES		TD EO - FL -	
- •	LOCAL UNDETERMINED ROUTING ORIGINATING	4,537	.008580000	2.27
	TANDEM ORIGINATING ACCESS	422	.000500000	.21
	UNDETERMINED ROUTING ORIGINATING	1	.000500000	.01
	TOTAL UT F TERN ED-ED	4,960		2.49
	UNBUNDLED TRANSPORT FACILITIES	TERMINATION EO	TO TANDEM - F	"L ~ EC 5191
	TANDEM ORIGINATING ACCESS	168	.000500000	80.
	TANDEN ORIGINATING TERMINATING	812 4,561	.000500000	
	TOTAL UT F TERM EO-TAN	5,541		2.77
	UNBUNDLED TRANSPORT TANDEM SWIT	CHING - FL - E	Ç 5191	
· .	UNDETERMINED ROUTING ORIGINATING TANDEM	4,452	.00029000	-
	ORIGINATING DRIGINATING ACCESS	143 447	.00029088 .08829000	
·	UNDETERMINED ROUTING ORIGINATING	1	.00029000	0 . 0 3
•	TANDEM ORIGINATING TERMINATING	812 4,561	.00029000 .00029000	

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RATE CATEGORY	QUANTITY	RATE	ANOUNT
TOTAL UT TANDEM SW TOTAL UNBUNDLED TRANSPORT (10,416 CHARGE - FL - EC 5193	L	3.03 9.46
UNBUNDLED END OFFICE - FL	- EC 5191		·
UNBUNDLED LOCAL SWITCHING	- SWITCHING FUNCTION	NLLI I	
ORIGINATING			
ED SINGLE NETWORK			
INTRASWITCH			
INITIAL	394	.017500000	6.90
ADDITIONAL	275	.005000000	1.38
INTERSWITCH	1,615	.017500000	28.26
INITIAL ADDITIONAL	2,395	.005000000	11.98
MULTIPLE NETWORK	2,070		
INTERSWITCH			0.04
INITIAL	562 556	.017500000 .005080000	9.84 2.78
ADDITIONAL TEO	250	.003000000	2.70
SINGLE NETWORK			
INTERSWITCH			A7 A(
INITIAL	1,591 2,393	.017500000 .005000000	27.84 11.97
ADDITIONAL MULTIPLE NETWORK			
INTERSWITCH			
INITIAL	398	.017500000	6.97
ADDITIONAL	302	.005000000	1.51
ACCESS ORIGINATING			
EO			
SINGLE NETWORK			
INTERSWITCH		.017500000	.02
INITIAL MULTIPLE NETWORK	1	.01/200000	.02
INTERSWITCH			
INITIAL	1,248	.017500000	21.84
ADDITIONAL	2,916	.005080000	14.58
TERMINATING			
TEO SINGLE NETWORK			
INTERSWITCH		•	
INITIAL	1	.017500000	.02
ADDITIONAL	1	.005000000	.01

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•.		IN	LL DATE	305 305 Nov 22,2080 PAGE 149
- · A.		E FOR OFFICE NDADF 2 00 THRU NOV 21 0		****
· ·	RATE CATEGORY MULTIPLE NETWORK INTERSWITCH	QUANTITY	RATE	AMOUNT
	INITIAL ADDITIONAL	1,988 5,043	.01750000 .00500000	
14 - E	TOTAL ULS - SWITCH FUNC Total unbundled end office c	21,679 HARGES - FL - EC 5	191	205.91 . 205.91
• .	UNBUNDLED MISCELLANEOUS - FL Operator Call Handled Lec LIDB	- EC 5191 4	1.00000000	0 4.80
	FULLY AUTOMATED CALL Handled Lec Lidb	9	.10000000	10 . 90
	TOTAL UNBUNDLED MISCELLANEOU	S CHARGES - FL - E	C 5191	4.90
	TOTAL LOCAL USAGE CHARGES FO	R OFFICE NDADFLGGD	iso	233.59
	**************************************	CE NDADFLGGDS0		233.59

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	* * * * * * * * LOCAL USAGE FOR OFFICE NDADFLGG03T * * * * * * * * * * SEP 22 00 THRU OCT 21 00										
	RATE CATEGORY	QUANTITY	RATE	AMOUNT							
•	UNBUNDLED TRANSPORT SHARED TRANS LOCAL Tanden Originating Tops NBADFLGG03T EO NDADFLOLI	: .	9 1 .000012000	.01							
	TOTAL UT SHRD TRANS TOTAL UNBUNDLED TRANSPORT CHARGE	1 - FL - EC 5191		.01 .91							

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271 - 14	•			INVOICE NO 3	05		. *	
				BILL DATE N	OV 22,2000 AGE 151			
	•	* * * * * * * * * * LOC/	L USAGE FOR OFFICE NDA OCT 22 08 THRU NOV 21		* * * * * * *			
		RATE CATEGORY	QUANTITY	RATE	AMOUNT			
	· ·	UNBUNDLED TRANSPORT SH LOCAL TANDEM ORIGINATING	IARED TRANSPORT - FL -	EC 5191		• .		
	÷. · ·	TOPS NDADFLGG03T	O MIANFLBA85E - 014 MI	.008012900	.01			
			O MIANFLGRDS1 - 012 MI	.000012000	. 01			
		TOPS NDADFLGG031 1	5	.000012000	.01	·		
			0 MIANFLPLDS0 - 014 MI 2 10 MIANFLSH75E - 007 MI	.000012000	.01			
			I MIANFLWKDS0 - 015 MI	.000012000	.01			
			EO NDADFLAC94E - 003 NI	.000012000	.01			
			ED NDADFLBRDS0 - 004 MI	.000012000	.01			
		TOPS NDADFLGG03T	1	.000012000	.01			
	· · ·		2 O PRRNFLMADSB - 025 MI	.000012000		· · · · ·		
		TOTAL UT SHRD TRANS			.18 .10	÷	·	
		TOTAL LOCAL USAGE CHAI	RGES FOR OFFICE NDADFLG	G037	.11 .11		· .	
		TOTAL USAGE CHARGES FO			.11 ***********************************		· .	an a
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Distance of		· · · · · ·						
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BILL NO INVOICE NO BILL DATE	305 3059 NOV 22,2000 PAGE 152	

* * * * * * * SUMMARY OF UNBUNDLED USAGE CHARGES * * * * * * * * * * * FLORIDA - 5191

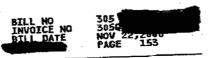
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LOCAL TOTAL UNBUNDLED TRANSPORT CHARGES TOTAL END OFFICE CHARGES TOTAL MISCELLANEOUS CHARGES	63.98 1,177.67 13.62	
TOTAL USAGE CHARGES	1,255.27	



	* * * * * * * * * SUMMARY OF UNBUNDLED USAGE CHARGES TOTAL - ALL STATES/ECS	* * * * * * * * * * * *
•	TOTAL TOTAL UNBUNDLED TRANSPORT CHARGES TOTAL END OFFICE CHARGES TOTAL MISCELLANEOUS CHARGES	63.98 1,177.67 13.62
	TOTAL MISCELLANEOUS CHARGES	1,255.27

TOTAL USAGE CHARGES

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1,255.27

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BTIL NO 305 INVOICE NO 3050 BILL DATE NOV 22,2000 PAGE 154

TOTAL - FLORIDA - 5191 * * * DETAIL OF TAXES * * *

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I.

TYPE	MONTHLY ACCESS	USAGE	OTHER	TOTAL	
 FRANCHISE	0.07	0.00	0.00	0.07	
TOTAL	0.07	0.00	0.08	0.07	

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[:				INVOICE	NO 30 TE NO LAST PA	50920 V 22,2000 GE 155	
		PAGE	REFERENCE NO	PAGE	REFERENCE	NO	PAGE	REFERENCE NO	
		4 5 13 19 28 40	BILL FACE PAGE LATE PAY CHGS OC-AND-C PAGE HMSTFLHHDSO MIAMFLAPDSO MIAMFLBABSE MIAMFLCADSO MIAMFLGADSO MIAMFLGADSI	•					•
	•	61 72 85 92 97 104 115 128 140 150	MIANFLINNDSO MIANFLINDSO MIANFLIDL68E MIANFLPB88E MIANFLSH75E MIAMFLSH75E MIAMFLSH75E MIAMFLWDDSO NDADFLBRDSO NDADFLBRDSO NDADFLGGDSO TAXES					· .	
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