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EXECUTIVE

July 16, 2001

Mr. David Waddell Executive Director Tennessee Regulatory Authority 460 James Robertson Parkway Nashville, Tennessee 37243

Re: Docket to Establish Generic Performance Measurements, Benchmarks and

Enforcement Mechanisms for BellSouth Telecommunications, Inc.

Docket No. 01-00193

Dear Mr. Waddell:

Enclosed please find an original and thirteen (13) copies of the testimony of Karen Kinard, along with Exhibits KK-A through KK-F which we would appreciate your filing on behalf of WorldCom, Inc. in the above-referenced docket.

Thank you for your assistance in this matter.

Very truly yours,

BOULT, CUMMINGS, CONNERS & BERRY, PLC

By:

Jon H. Hasting

JEH/th

Enclosures

cc: All Parties of Record

Susan Berlin, Esq. David Adelman, Esq.

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing has been forwarded via U.S. Mail, postage prepaid, to the following on this the 16th day of July, 2001.

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Jon E. Wastings

BEFORE THE TENNESSEE REGULATORY AUTHORITY DOCKET NO. 01-00193

TESTIMONY OF KAREN KINARD ON BEHALF OF WORLDCOM, INC.

July 16, 2001

I. INTRODUCTION

1	Q.	PLEASE STATE YOUR NAME.
2	A.	My name is Karen Kinard. My business address is 8521 Leesburg Pike, Vienna,
3		Virginia 22182. I am employed by WorldCom, Inc. ("WorldCom") as a Senior
4		Staff Member within the ILEC Performance Advocacy group of WorldCom's
5		National Carrier Management and Initiatives organization.
6 7	Q.	PLEASE PROVIDE INFORMATION ON YOUR RESPONSIBILITIES, BACKGROUND AND EXPERIENCE WHILE AT WORLDCOM.
8 9	A.	I am responsible for performance measurement and remedy plan policy
10		development and advocacy for WorldCom, and I was a key developer of the
11		Local Competition Users' Group's ("LCUG's") version 7 Service Quality
12		Measurement document. I have held various positions since joining WorldCom's
13		(then MCI's) Local Initiatives group in June 1996, including leading a team that
14		provided subject matter expertise during the first round of interconnection
15		agreement negotiations.
16	Q.	PLEASE PROVIDE INFORMATION ON YOUR BACKGROUND AND
17		EXPERIENCE PRIOR TO JOINING WORLDCOM.
18	A.	Before joining WorldCom, I was an editor for eleven years at
19		Telecommunications Reports ("TR"), covering technology, state regulation,
20		access charge issues, and jurisdictional cost separations policy. I also held the
21		position of chief technology editor and other top editorial positions, including
22		serving as the principal editor of TR's Communications Business and Finance and
23		Cable-Telco Competition Report newsletters. I initiated TR's Communications

1		Billing Report newsletter before joining Phillips Business International's
2		Communications Today daily electronic newsletter in 1995 as its chief Federal
3		Communications Commission ("FCC") correspondent. From 1976 to 1984, I
4		served in various positions as an aide to the Congressman for the Seventh District
5		of Pennsylvania, including Press Secretary and Legislative Assistant for
6		telecommunications policy and banking.
7	Q.	PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND.
8		I received my Masters of Science degree in Telecommunications Policy and
9		Management from George Washington University in 1984. I received a
10		Bachelors of Science degree in Communications from West Chester University in
11		1975. I also hold a paralegal certificate in Corporate Law from Widener
12		University.
13 14	Q.	WHAT IS YOUR EXPERIENCE RELATING TO PERFORMANCE MEASUREMENTS WORK IN OTHER JURISDICTIONS?
15 16	A.	I have been WorldCom's lead representative in carrier-to-carrier performance
17		measurement and remedy collaboratives, have made metric presentations, and
18		have testified or filed comments in many state arbitration, 271 and generic
19		performance measurements proceedings since 1998. State proceedings in which I
20		have participated include those held in Florida, Louisiana, North Carolina,
21		Tennessee, Mississippi, Kentucky, South Carolina, Alabama, New York,
22		Pennsylvania, Massachusetts, New Jersey, Virginia, Maryland, Illinois, Michigan,
23		Ohio, Indiana, Colorado and Arizona. I also have filed declarations with the FCC
24		on metric and remedy issues in the New York, Massachusetts and Pennsylvania

271 proceedings, and I have made presentations and informally discussed metrics and remedy issues with FCC and Department of Justice staff at their request and in ex partes, either done jointly with other LCUG members or solely for WorldCom.

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Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

The purpose of my testimony is to provide to the Tennessee Regulatory Authority ("Authority" or "TRA") evidence in support of a procompetitive set of performance standards, metrics and measures. I intend for this testimony to be considered jointly with comments previously filed on April 6, 2001 by an ad hoc coalition of CLECs of which MCImetro was one. I also intend for this testimony to be used by the Authority to build on its decisions in Docket No. 99-00430, the ITC^DeltaCom/BellSouth Arbitration. My testimony will recommend certain modifications to the performance measures that were ordered by the Authority on February 21, 2000 in Docket No. 99-00430. These modifications reflect lessons learned as we participate in the nascent competitive local exchange markets, experience from other regulatory proceedings and, the requirements of the Telecommunciations Act of 1996 ("Act"). My recommendations reflect what is needed to ensure fair and effective competition in the Tennessee local exchange markets. My testimony will also address some of the deficiencies in BellSouth's March 12, 2001 SQM which it attached to its Comments filed in this docket on April 6, 2001.

II. BACKGROUND

2 Q. IS THE CONTEXT OF THIS CASE IMPORTANT?

- A. Yes. The context in which this case arises is important because BellSouth would have the Authority ignore or back away from the good work the TRA has done and the resources already expended by the TRA and various parties.
- Q. PLEASE BRIEFLY DESCRIBE SOME OF THE SIGNIFICANT
 DECISIONS OF THE TRA RELATING TO YOUR TESTIMONY
- By Order dated April 4, 2000, after hearing a great deal of argument and
 considering the testimony of various experts, the Authority, acting as arbitrators
 under the Act directed ITC^DeltaCom Communications, Inc. ("TTC^DeltaCom")
 and BellSouth to submit Final Best Offers on the issue of performance measures
 in the ITC^DeltaCom arbitration. On August 31, 2000, the TRA released its

 Second Interim Order of Arbitration Award and ordered BellSouth and
 ITC^DeltaCom to resubmit a final best offer for Issue 1(a).¹

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In the ITC^DeltaCom Arbitration, the TRA asked ITC^DeltaCom and BellSouth to address (1) the electronic medium to be used in providing ITC^DeltaCom access to the performance report and underlying data; (2) the process to be utilized to determine BellSouth's compliance or non-compliance with the

¹ It is noteworthy that during this time, WorldCom joined many other CLECs in an expedited proceeding in Georgia regarding performance measures and remedies. WorldCom, along with AT&T of the Southern States ("AT&T"), ICG Telecom Group, Inc. ("ICG"), Intermedia Communications, Inc. ("Intermedia"), Southeastern Competitive Carriers Association ("SECCA"), ITC^DeltaCom Communications, Inc. ("ITC^DeltaCom"), Birch Telecom, Inc. ("Birch"), Dieca Communications, Inc. d/b/a COVAD Communications Company ("COVAD"), e.spire Communications, Inc. ("e.spire"), Broad Slate Networks, Inc. ("Broad Slate"), Media One Telecommunications of Georgia LLC ("Media One"), Z-Tel Communications, Inc. ("Z-Tel"), and Rhythms Link, Inc. ("Rhythms") sponsored one performance remedy

1	standard or benchmark; (3) standards/benchmarks for each measurement; ² (4)
2	enforcement mechanisms; and (5) circumstances that would warrant a waiver
3	request from BellSouth and the time frame for submitting such waiver request.
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5	The TRA ordered that the Parties use BellSouth's SQMs with associated
6	definitions and business rules for the purpose of measurement along with certain
7	specified additions, deletions, and revisions from the "Texas Plan." Specifically,
8	the TRA ordered that the parties use the Texas Plan definitions and business rules
9	for the following items:
10	(a) Remove the SQM on firm order confirmation timeliness
11	(b) Add percent firm order confirmation returned within specified time frame
12	(c) Add percent mechanized rejects returned within one hour of receipt of reject in
13	LASR
14	(d) Add percent of accurate and complete formatted mechanized bills
15	(e) Add billing completeness
16	(f) Add unbillable usage
17	(g) Add percent busy in the local service center (LSC)
18	(h) Add percent busy in the local operations center (LOC)

plan before the Georgia Public Service Commission on July 5-7, 2000. I understand the TRA has acknowledged some of the work done in Georgia especially as it relates to Third Party Testing.

² I strongly agree that Standards must be specific and measurable. Parity or retail analog should include the specific service to which parity will be measured or the retail analog companion. Additionally, a methodology should be provided for defining or calculating the performance standard and/or benchmark, for each measure, such as the method contained in the SEEM for each measure.

⁴ Investigation of Southwestern Bell Telephone Company's Entry Into The Texas InterLATA Telecommunications Market, Project No. 16251, Public Utility of Texas, (Oct. 13, 1999).

I	(1) Add percent installations completed within industry guidelines for LNP with
2	loop
3	(j) Add average response time for loop makeup information
4	(k) Add directory assistance average speed of answer
5	(l) Add operator services speed of answer
6	(m) Add percentage of LNP only due dates within industry guidelines
7	(n) Add percentage of time the old service provider releases the subscription prior
8	to the expiration of the second nine-hour (T2) timer
9	(o) Add percentage of customer account restructured prior to LNP due date
10	(p) Add percentage premature disconnect for LNP order
11	(q) Add average days required to process request
12	(r) Add cageless collocation to the level of disaggregation on BST's SQM
13	"collocation/average arrangement time."
14	(s) Add cageless collocation to the level of disaggregation on BST's SQM
15	collocation/percent of due dates missed
16	(t) Add percentage of updates completed into the DA database within 72 hours for
17	facility based CLECs
18	(u) Add average update interval for DA database for facility based CLECs
19	(v) Add percentage DAT database accuracy for manual update (w) Add
20	percentage of premature disconnects (coordinated cutovers)
21	(x) Add percentage of missed Mechanized INP conversions
22	(y) Add percent NXXs loaded and tested prior to the LERG effective date
23	(z) Add average delay days for NXX loading and testing

1	(aa) Add	mean tir	ne to re	pair
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- 2 (bb) Add percentage of requests processed within 30 days
- 3 (cc) Add percentage of quotes provided for authorized BFRs/special requests
- 4 within X days (10, 30, 90) days

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6 Q. DID BELLSOUTH TRY TO AVOID THE RESULTS OF THE

ITC^DELTACOM ARBITRATION?

A. Yes. In the face of a strong decision supporting performance measures and 8 9 remedies in the context of particular arbitrations, BellSouth attempted a 10 procedural end run. On May 17, 2000, BellSouth asked the Authority to open a generic proceeding rather than grant relief to any petitioning CLECs in the 11 context of their arbitrations. The Authority did not reward BellSouth's procedural 12 scheme, but rather, proceeded with the ITC^DeltaCom arbitration and now looks 13 to build on that decision. Indeed, BellSouth continues to try to avoid the TRA's 14 mandates. The proposal it attached to its April 6, 2001 Comments in this docket 15 ignores much of what the TRA has ordered. 16

Q. WHY IS THE ITC^DELTACOM DOCKET IMPORTANT?

18 A. The ITC^DeltaCom docket is crucial because on May 15, 2001, the Prehearing
19 Officer issued his Order Consolidating Docket Nos. 99-00347 and 00-00392 into
20 Docket No. 01-00193 and Opening Docket No. 01-00362. That Order clearly
21 establishes the ITC^DeltaCom arbitration decisions as the "starting point" for the
22 measures and standards which will ultimately be adopted in this docket.

On June 26, 2001, the Authority unanimously affirmed that the ITC^DeltaCom/BellSouth arbitration orders would serve as the "starting point" for its conclusions in this docket. See Orders on Reconsideration and Denying Joint Motion, Docket No. 99-0430, p.7. Put simply, the TRA has declared unambiguously that it does not intend to back away from its decision in the ITC^DeltaCom arbitration. 6

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WHY IS IT IMPORTANT FOR THE METRICS IN A PERFORMANCE Q. MEASUREMENT PLAN TO BE COMPREHENSIVE?

A performance measurement plan needs to be comprehensive because significant gaps in coverage can make it extraordinarily difficult and time-consuming to detect and deter below-parity performance. When an area of BellSouth's performance is not covered by a metric, the primary tool available to a CLEC to remedy poor performance is an action to enforce the parties' interconnection agreement. Enforcement actions based on disparate treatment can be uphill battles because the CLEC must prove that BellSouth is providing better service to itself, its customers or its affiliates than to the CLEC. To make its case, the CLEC must somehow obtain accurate internal BellSouth information concerning the service it provides to itself, its customers or its affiliates. Even if this can be done, an enforcement case can take a year or more to complete (at least without the availability of expedited dispute resolution), which typically is far too long for a CLEC attempting to solve an immediate problem affecting its business. Comprehensive performance metrics therefore go hand in hand with the potential for broad scale entry into the local market.

1	This is exactly the view provided by the U.S. Department of Justice ("DOJ") in
2	opposing approval of BellSouth's Louisiana 271 application:
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4	We find no evidence in the record that BellSouth has committed
5	itself in any significant way to specific levels of performance or
6	to any enforcement provisions to remedy inadequate
7	performance. Rather, it appears that, as a general matter, CLECs
8	who feel that BellSouth's performance is inadequate would
9	need to file complaints with the [state] PSC and then, in the
10	course of the resulting regulatory proceedings, establish the
11	appropriate level of performance, whether BellSouth had failed
12	to meet that performance level, and finally, establish the
13	remedy. To be most effective in preventing backsliding, such
14	issues should be resolved in advance, either in contracts
15	between BellSouth and its competitors or through regulatory
16	proceedings.
17	
18	Evaluation of the DOJ at 39, filed in In re Application of BellSouth Corporation
19	Pursuant to Section 271 of the Communications Act of 1934, as amended, to
20	Provide In-Region, InterLATA Services in Louisiana, CC Docket No. 97-231.
21	
22	Thus measurements should cover all problems that can and have arisen through
23	real market experience with:
24	(A) Service delivery methods such as resale and individual unbundled
25	network elements (UNEs) (such as loops or transport); UNE
26	combinations (such as enhanced extended loops and platform); and
27	facilities interconnection.
	(D) D. J. 14 and manage and as accordinated conversions, vericus
28	(B) Products and processes such as coordinated conversions, various
29	flavors of xDSL and line sharing and splitting services, local number
30	portability, loop acceptance testing and loop conditioning.

i		(C) Retain-wholesale relationships management such as operational
2		support systems (OSS) speed and connectivity, help desk
3		responsiveness, database update accuracy and timeliness, and change
4		management processes and software error correction timeliness.
5		(D) Provisioning status notices such as acknowledgements, confirmations
6		rejections, completion notices, jeopardy notices and loss notices.
7		(E) Maintenance responsiveness and capability in resolving customer
8		trouble reports.
9		(F) Billing accuracy and completeness for the end user customer and the
10		CLEC.
11 12	Q.	PLEASE COMMENT ON BELLSOUTH'S SQMs AS THEY HAVE BEEN PROPOSED REGION-WIDE.
13	A.	BellSouth has long standing business rules problems with its SQM and new
14		problems in its metrics ordered added by the Georgia Commission. I describe the
15		former in my attachment KK-A and the latter in my attachment KK-B.
16		BellSouth also is missing various metrics important to CLECs (my attachment
17		KK-C), including as pertain to disaggregation (my attachments KK-D and KK-E)
18		and sufficient benchmarks to provide CLECs with a meaningful opportunity to
19		compete (my attachment KK-F).
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III. IMPACT ON WORLDCOM

2	Q.	HOW WILL INADEQUACIES IN BELLSOUTH'S METRICS AFFECT
3		WORLDCOM?

5 A.

A.

In mid-May 2001, the MCI division of WorldCom launched its first residential service offering in BellSouth territory, using the UNE-platform ("UNE-P") mode of delivery in Georgia. MCI UNE-P customers have experienced an alarmingly high number of dialtone losses shortly after conversion. For conversion of an existing BellSouth customer line to MCI using the UNE-P, the loss of dialtone should be considered unacceptable, if not unfathomable.

Q. DOESN'T BELLSOUTH'S PLAN MEASURE THESE PROBLEMS?

Even though BellSouth's plan has a Trouble After Service Order Completion metric, MCI is concerned that it will understate the problem. First, MCI has found that a high number of these problems are being wrongly classified as CPE (Customers Premises Equipment) or TNF (Trouble Not Found) designations, which exclude them from the metric. Moreover, unlike Verizon and SBC, BellSouth does not report on the number of exclusions for maintenance or provisioning metrics so CLECs can monitor whether they seem unusually high, thus requiring an examination of the raw data. Further, even if the lost dialtone problems do get recorded as troubles, BellSouth judges parity by combining retail residential and business services. By combining these services, more dispatch orders that should be more likely than a UNE-P migration to result in dialtone losses are involved. This will mask a problem that can and already has caused new MCI customers to revert to BellSouth--a process BellSouth has made easier through it improper branding. Also, MCI suspects that there is an unnecessary

two-part order process in which the "N" (New) and "D" (Disconnect) orders get 1 out of sequence and the line is physically disconnected before the CLEC is 2 designated as the new carrier for the customer. The problem is very similar to one 3 MCI faced in Texas, where such dialtone losses were understated in SBC-SWBT reporting by the hundreds, due to this same exclusion process. Most importantly, 5 BellSouth's trouble closure reports provide narratives only and do not include the 6 trouble disposition and cause codes that drive these exclusions. 7 Q. HOW CAN THIS PROBLEM BE RESOLVED? 8 While the retail analog needs fixing and coding of CPE/TNF dispositions need to 9 A. be reported and double-checked, MCI would like to see the process fixed so this 10 problem will not put customers at risk of losing dialtone. A one-order process 11 will keep both the problem from recurring and BellSouth from paying any 12 13 remedies for Troubles within 30 Days of Service Order Activity for what should be simple UNE-P migrations. This is only one example of how a poorly 14 constructed metric can affect WorldCom's local market entry. The absence of 15 metrics, low standards, exclusions creating big loopholes also can harm 16 WorldCom and other CLEC coalition members in competing with BellSouth 17 18 PERFORMANCE MEASURES RECOMMENDATIONS IV. 19 20 21 WHAT MUST THE TRA DO TO COMPLETE ITS WORK ON 22 Q

PERFORMANCE MEASUREMENTS?

1	A.	The TRA's February 21, 2001 Order in Docket No.99-00430 (the "February
2		Order") put in place many, but not all, of the requirements necessary for an
3		effective performance measurement methodology. While the TRA Order contains
4		many of the performance measurements, performance standards and
5		disaggregation requirements needed by CLECs, they require some modifications
6		based on the collective input of the CLEC community. The work of the Georgia
7		Commission can be instructive on some of these issues.
8	Q.	PLEASE ELABORATE ON THE GEORGIA COMMISSION'S ACTIONS
9		ON THIS ISSUE?
10	A.	The Georgia Commission also recognized the inadequacy of the BellSouth
11		measures to provide essential information needed to make compliance
12		determinations. I understand the TRA has acknowledged some of the good work
13		done by the Georgia Commission. On January 16, 2001, the Georgia
14		Commission issued an Order in its generic performance measurement docket that
15		added the following seventeen metrics to BellSouth's recommended Service
16		Quality Measures: Response Time for Manual Loop Make-Up (LMU) Queries
17		Response Time for Electronic LMU Queries Acknowledgement Timeliness
18	•	Acknowledgement Completeness
19	•	FOC/Reject Response Completeness
20	•	% Completions/Attempts w/o Notice or < 24 hours notice
21	•	Average Recovery Time for Coordinated Cuts
22	•	Cooperative Acceptance Testing Attempts vs. Requested by CLECs
23	•	Recurring Charge Completeness

•	Mean Time to Notify CLECS of Network Outages
•	Mean Time to Notify CLECS of Interface Outages
•	Average Database Update Interval
•	Percent Database Update Accuracy
•	NXX and LRNs loaded and tested by LERG date
•	BFRs processed in 30 business days
•	BFR Quotes provided in X days
Q.	DOES BST's SQM ISSUED IN COMPLIANCE WITH THE GEORGIA
	ORDER INCLUDE MEASURES SIMILAR TO THOSE ORDERED BY
	THE TRA?
A.	Yes. Listening to the CLECs as the TRA did in the ITC^DeltaCom arbitration, the
	Georgia Commission ordered BellSouth to add new metrics and improve old ones,
	which results in this SQM resulting order coming much closer to that which the
	TRA has ordered. The TRA should build on the Georgia experience.
Q.	ARE THERE ANY METRICS OR BENCHMARKS APPROVED BY THE
	TRA THAT GEORGIA DID NOT ORDER?
Α.	Yes. The Georgia Commission did not require BellSouth to add metrics covering
	Average Delay Days for NXX Loading, Average Time to Repair NXX Loading
	Errors, Percentage of Time the Old Service Provider Releases the Subscription
	Prior to the Expiration of the Second Nine-Hour (T2) Timer; Percentage of Missed
	A. Q.

• Non-recurring Charge Completeness

1		Mechanized INP conversions; Percent Busy in LOC, Percent Busy in LSC; and
2		Percentage of Customer Account Restructured Prior to LNP Due Date.
3		
4		Q. SHOULD THE TRA CONTINUE TO REQUIRE THESE ADDITION
5		METRICS?.
6	A.	Yes. Some like the NXX loading delay days and Mean Time to Restore can be
7		disaggregations of existing BellSouth Average Delay Day and Mean Time to
8		Restore metrics. Others address LNP provisioning issues that need to be covered to
9		avoid errors that can harm customers (Percent Release of Old Service Provider)
10		and delays (Account Restructure). Only the ILNP conversion metric may not be
11		necessary at this point, depending on status of LNP implementation in the state,
12		which is likely nearly complete at this point. However, a measurement of ILNP to
13		LNP conversions, as a disaggregation of Order Completion Intervals and Missed
14		Appointments would be beneficial to competition.
15		
16	Q.	DOES THE GEORGIA COMPLIANCE SQM CONTAIN ADDITIONAL
17		METRICS SOUGHT BY OTHER CLECS THAT ITC^DELTACOM DID
18		NOT SEEK IN TN?
19	A.	Yes. The Georgia Commission has long required a Percent Order Accuracy Metric,
20		albeit with suspect sampling procedures. The Georgia order also includes some
21		additional Billing metrics, such as Recurring and Non-Recurring Charge
22		Completeness metrics and a metric covering Percent_Completions/Attempts without

Notice or with Less Than 24 Hours Notice; It also added several measurements of BellSouth's OSS Change Control Notice and Document provisioning intervals.

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Q. SHOULD THE GEORGIA COMPLIANCE FILING BE THE STARTING POINT FOR THIS PROCEEDING?

A. Yes. In addition to the TRA's previous orders, the Georgia compliance filing, would
serve as an excellent point of reference which can be found at www.psc.state.ga.us
at Docket No. 7892-U. To this document the TRA should add the non-included
metrics from the ITC^DeltaCom arbitration mentioned above as well as the new
metrics, business rule and standards changes mentioned below. This document
contains the closest to a comprehensive plan filed by BellSouth to date and brings
this proceeding to discussion of the same impasse issues already under
consideration in other generic metric proceedings.

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Q. IS THE SQM FILED BY BELLSOUTH WITH ITS APRIL 6, 2001 COMMENTS THE SAME AS THE GEORGIA SQM DOCUMENT?

Percent Order Accuracy, Percent_Completions/Attempts without Notice or with

Less Than 24 Hours Notice, and the two Bona Fide Request Measurements that

were similar to those the TRA ordered. (BFRs processed in 30 business days

BFR Quotes provided in X days.) The SQM filed with BellSouth's comments

should be disregarded and the commission focus on improving on the metric

business rules implemented in the Georgia SQM.

Q. WHY HAS BELLSOUTH ELIMINATED SOME OF THE METRICS ORDERED BY GEORGIA, INCLUDING SEVERAL THAT OVERLAP WITH THOSE ORDERED BY THE TRA?

A. I would call it a disregard for what its CLEC customers want. Certainly the metrics it has eliminated are needed by the CLEC Coalition to highlight business impediments likely or existing in the BellSouth region. For example, BellSouth's proposal to do away with the Percent Completions/Attempts w/o Notice or Less than 24 Hours notice is of great concern to me. I personally added this metric to the 1998 release of the LCUG SQM Version.7 after meeting with MCI service delivery and sales representatives that deal with BellSouth. They noted that in many circumstances BellSouth delivers service with no or little notice and this results in Customer Not Ready designations. CNRs are not counted as missed appointments and are used as the end time for Order Completion Intervals.

The two Bona Fide Request metrics have been targeted by BellSouth for deletion in various permanent metric proposals submitted in 271 proceedings. WorldCom finds it challenging enough to gain off-the-shelf wholesale products without negotiating delivery and prices of new products. Nevertheless, this is where the rubber will meet the road on CLECs distinguishing their local products from what BellSouth currently offers or in obtaining greater efficiencies in delivering current

products. BellSouth should not be allowed to slow the early efforts of CLECs trying to differentiate their local products and provide them efficiently.

Of great concern to CLECs are BellSouth's efforts to rid itself of the Georgia Order Accuracy metric, which needs improvements as mentioned below, not elimination. The development of the Order Accuracy metric was critical in gaining New York endorsement of Verizon's 271 application. Through the New York Carrier-to-Carrier monthly meetings, CLECs also have continuing input to the areas to the final CSR (Customer Service Record) to compare to the original LSR (Local Service Request) to ensure that manual handling has not introduced errors. Discussions are even underway to move from a manual sampling to an automated 100% comparison to detect errors. Here once again BellSouth goes backwards before 271 approval when other ILECs move forward in improving metrics post-271 approval. These are just a few of the problems with BellSouth's proposed permanent SQM.

BellSouth also has proposed permanent metric rules that reduce many of the benchmarks that already were too low compared to Texas and NY standards. The TRA should adopt the benchmarks and analogs proposed by the CLECs, many such as FOC intervals are based on the Texas benchmarks it original approved. It should push BellSouth forward, rather than allow BellSouth to backtread on what the TRA and Georgia PSC have ordered before it is barely implemented.

1	Q.	KEEPING IN MIND THE GEORGIA PROCEEDING, PLEASE DISCUSS
2		IN DETAIL MODIFICATIONS THAT SHOULD BE MADE BY THE TRA
3		IN THIS DOCKET?

- A. Additional metrics, including those ordered by the Georgia Commission, should be included in the measures set adopted by the TRA in this docket. The rationale for this preliminary set of additional measures is discussed below:
- 7 1. Additional Ordering Measures
- 8 <u>OP-Acknowledgement Timeliness</u>

9 OP-Acknowledgement Completeness

CLECs need to know their orders are being received by BellSouth's operational systems. These acknowledgements are received before a confirmation or rejection of the order can be established. The lack of such an acknowledgement message (known as a 997 message on EDI interfaces) is the first indication that an order submitted by a CLEC is jammed somewhere in BellSouth's systems and will not be processed without human intervention. This can mean that service to the customer will be delayed well beyond the requested interval. CLECs need metrics to monitor how quickly an order is acknowledged by BellSouth's systems and how many notices are missing once the acknowledgement interval has passed. These measures have been ordered by the Georgia Commission.

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2	OP-Firm Order Confirmation and Reject Response Completeness
3	This measure flags problems with orders trapped in BellSouth's systems. This
4	can occur even after an acknowledgement notice is sent to the CLEC. The current
5	confirmation and rejection metrics only capture information on Local Service
6	Requests (LSRs) received by BellSouth; however, the LSRs could be lost in
7	BellSouth's systems and therefore not "received" so they would never be
8	measured. The current metrics could show on-time performance because missing
9	LSRs are never captured. Equally important, missing rejections and
10	confirmations, needed by the CLECs to complete service delivery, would go
11	undetected. In New York, Verizon's metrics had the same deficiency and as a
12	result Verizon reported excellent performance even though tens of thousands of
13	orders were lost or mishandled. Ultimately, the FCC and New York Public
14	Service Commission took action, which led to Verizon paying \$10 million to
15	CLECs and \$3 million to the U.S. Treasury for its poor performance. This
16	measure also was ordered by the Georgia Commission.
17	OP-Mean Time to Provide Response to Request for BellSouth-to-CLEC Trunks
18	OP-Percent Responses to Requests for BellSouth-to-CLEC Trunks Provided
19	within 7 Days
20	OP-Percent Negative Responses to Requests for BellSouth-to-CLEC Trunks
21	
22	CLECs cannot expand without adequate trunk capacity inbound from the ILEC as
23	well as outbound to the ILEC. ILEC delays in providing reciprocal trunks or
24	delays in providing CLECs a due date for such trunks forces CLECs to delay

installing new customers. CLECs would rather manage a single customer's

expectation for a due date than install a customer that will cause further blocking

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on inbound calls to all CLEC local customers in the area. ILEC delays on trunk resizing keep CLECs from growing market share. The proposed measures in this area should apply regardless of how a CLEC sends its request, whether via fax, email or as an Access Service Request (ASR).

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The Mean Time to Provide Response measurements is key when comparing service to affiliates for response to trunk requests. The Percent Responses to Requests for BellSouth-to-CLEC Trunks Provided Within 7 Days metric measures the response standard proposed by CLECs to be achieved 95% of the time. Finally, the Percent Negative Responses to Requests for BellSouth-to-CLEC Trunks metric would allow tracking of BellSouth rejections of CLEC requests for more capacity. These are not rejections for CLEC errors but cases where BellSouth argues that additional trunks are not needed. BellSouth's policy is that it is appropriate to begin trunk augmentation of a final trunk group when utilization reaches 75-85%. CLEC growth is more dynamic than BellSouth's and a 50% fill can quickly move blocking levels with the addition of one large customer. Thus, when utilization reaches 50%, it is prudent to plan for trunk augmentation because merely adding one large customer can easily bump up blockage levels to 85% or higher. The addition of customers with high inbound calling volumes can bump even lower fill rates than 50% up to blocking levels. These overall utilization rates also do not reflect blocking that would occur during busy hours but not other times of day.

2. Additional Provisioning Measures

2	OP- Order Accuracy
3	Tennessee CLECs also need to ensure that BellSouth provisions an order the way
4	it was entered or faxed by the CLECs. An Order Accuracy metric would capture
5	whether orders are changed through BellSouth's manual handling of partially
6	mechanized or faxed orders and thus provisioned inaccurately in great annoyance
7	to the customer.
8 9	OP-Percent Completions/Attempts without Notice or with Less Than 24 Hours Notice
10 11	Missed or late confirmations make CLECs look disorganized since they have to
12	scramble to meet the due date or are caught off guard by a service delivery to their
13	customer. Such absent or late notices can lead to "customer not ready" situations
14	where late service delivery is wrongly blamed on the CLEC and excluded from
15	the interval metrics. This metric was ordered by the Georgia Commission.
16	
17	OP-Percent On-Time Hot Cut Performance
18	CLEC customers often suffer from degraded or lost service through ILEC
19	mistakes or failure to adhere to established cutover procedures. An early cut of
20	facilities can cause the customer to lose service. A late cut translation often
21	means the customer cannot receive all or certain incoming calls. Either is harmfu
22	to a CLEC's reputations and can lead to costly lawsuits if service is lost
23	unexpectedly during business hours. Moreover, if the cut time is during business
24	hours, this can be devastating to the customer who relies on the telephone.
25	Therefore, it is crucial that BellSouth's performance in this area be monitored.

OP-Percent of Orders Cancelled or Supplemented at the Request of the ILEC
This metric, adopted in the New York Carrier-to-Carrier proceeding, captures
incidents where CLECs do not voluntarily extend the due date but rather do so at
the request of BellSouth in order to adjust for BellSouth-caused failures to
complete the order. When a CLEC agrees to supplement the order at BellSouth's
request, what would have been a missed due date gets a new due date in the
future. Therefore, without this metric, BellSouth would meet the measure even
though the customer and CLEC are frustrated with the later date.

OP-Percent of Coordinated Cuts Not Working as Initially Provisioned This metric captures when loops are provisioned on time but are not working. Often CLECs cannot log a trouble report until the order is completed in the ILEC's billing system, and that may take many hours or days. Consequently, these provisioning troubles are undetected by BellSouth's current performance

OP-Average Recovery Time

measures.

When early or late cuts occur, if there has been an outage, it is important to get the customer's service promptly restored and switched over to the CLEC. This metric measures how quickly service is restored to the CLEC. Both New York and Texas have similar measures. The Georgia Commission also adopted this measure.

1 2	OP-Mean Time to Restore a Customer to the ILEC OP-Percent of Customers Restored to the ILEC
3 4	These metrics measures the speed of restoring service to BellSouth when a
5	customer conversion fails and the percent of accurate port-backs to BellSouth
6	when necessary. Customers need to have service and may not be able to wait for
7	the conversion to work. Therefore, the customer would be ported back to
8	BellSouth. Restorations due to CLEC errors would need to be excluded from this
9	metric.
10 11	OP-Call Abandonment Rate – Ordering and Provisioning MR-Call Abandonment Rate - Maintenance
12	BellSouth only captures the call center response time for customers who wait for
13	their calls to be completed. The number of customers who abandon the call
14	because of long waits in queue are not captured. That causes any problem in the
15	call center answer time metrics to be understated. This measure will allow for a
16	more complete and accurate indication of BellSouth's performance in this area.
17	OP-Percent xDSL Lines Cooperatively Tested
18	OP-Percent Successful xDSL Service Testing
19 20	CLECs need to have cooperative testing done on xDSL loops to determine if
21	BellSouth has done all the appropriate work to provide connectivity. This
22	measure goes beyond that and reports on how many loops BellSouth actually did
23	test. Cooperative testing saves both the ILEC and CLEC time and effort in
24	resolving problems that should have been identified during the initial provisioning
25	process.

Along the same lines, BellSouth should measure the percent of successful xDSL cooperative testing. Similar to the defective loop metric for coordinated cuts, this measure would pick up how often an xDSL loop that is not working is delivered to the CLEC. This metric could be disaggregated by reason codes for the loop not working and while one remedy would apply for missing the standard for delivering working xDSL loops, the disaggregation would aid BellSouth in root cause analysis to address the problem area. Georgia ordered the Percent Tested metric proposed above.

OP- (disaggregation or new metric) - Percent Completion of Timely Loop Modification/Conditioning on xDSL loops

Some loops require modification or conditioning before they can be used to provide a customer with xDSL service. This metric measures BellSouth's timeliness in making the needed modifications or performing the necessary deconditioning. Since xDSL is a growing area of service for CLEC's and BellSouth, it is important that BellSouth modify and condition loops in a timely manner.

3. Additional Billing Measures

BL-Percent Billing Errors Correct in X Days

BellSouth delays in providing adjustments to carrier bills or correct daily usage feed errors can harm the CLEC and its customer in several ways. Errors that do not get corrected promptly in the daily usage file lead to CLEC's either holding up charges or passing on incorrect charges on to the customer. The CLEC must then expend its resources to later adjust customer invoices. BellSouth's invoice

ī		accuracy measure does not capture whether errors are corrected within a
2		reasonable time.
3		BL- Usage Timeliness
4		BellSouth measures the percentage of recorded usage data that is delivered to the
5		CLEC within six calendar days from the receipt of the original recording. CLECs
6		also need to know how timely the usage records on average are delivered to
7		CLECs, and therefore request the TRA adopt this additional measure.
8		BL- Percent On-Time Mechanized Local Service Invoice Delivery
9		Not only do the charges on the bills need to be correct and complete but also the
10		formatting must follow appropriate industry standards so that they can be
11		electronically processed in the CLEC systems. Without properly mechanized
12		bills, CLECs may be forced to reconcile boxes of paper bills for charges that
13		cannot be accepted or audited by their electronic systems.
14	4.	Other Additional Measures
15		MI- Percent Response Commitments Met On Time
16		Even more important than how quickly BellSouth representatives answer the
17		phone is how quickly they answer questions or resolve problems. CLECs should
18		not have to wait days for BellSouth to respond to a problem that has stalled
19		production of orders for the CLEC. Help Desk responsiveness on missing
20		notifier (confirmations, rejection, completion) problems is also crucial to CLECs.
21		Verizon's problems in this area led to the introduction of a three-day standard for
22		resolving such requests in the New York metrics. The TRA should adopt a
23		measurement and standard for responsiveness to all help desk questions that

1	impede an CLEC's ability to place orders of respond to a customer's status
2	questions about their order.
3	MI- Mean Time To Notify CLEC of Network Outages
4	Knowing about an outage promptly as well as the estimated time of resolution car
5	help CLECs address customer calls and concerns about disrupted service. If a
6	CLEC's maintenance team must wait longer to learn of a network outage than
7	Bellsouth's maintenance team, the CLEC is placed at a disadvantage because it
8	has less time to devise alternatives for customers. When service to its customers
9	has been affected, it is critical that CLECs be able to address those concerns in a
10	timely manner and possess as much information as possible. BellSouth's
11	performance in this area is crucial to CLEC customer satisfaction. Consequently,
12	this measure should be ordered by the TRA. This metric was among those
13	ordered by the Georgia Commission.
14 15	MI-Average Update Interval MI-Percentage Database Update Accuracy
16 17	The life line of any business depends on the ability of potential customers to
18	contact the business. Consequently, CLEC customers are rightfully concerned if
19	after obtaining service from their new CLEC, their information is not placed in
20	BellSouth's directory assistance and directory listings database promptly and
21	accurately. The Georgia Commission ordered this metric.
22	
23	OSS-Notification of Interface Outages
24	CLECs need to be informed promptly when BellSouth's systems are down so that
25	they can make alternative work plans. Failure to timely inform CLECs of

1	BellSouth outages can cause them to waste time troubleshooting their own
2	interfaces. Timely notification also prevents BellSouth's help centers from being
3	inundated with calls about an already known outage. This is also among the
4	newly ordered Georgia metrics.
5	CM- Percent Change Management Notices Sent On Time
6	CM- Average Delay Days for Notices
7	CM- Percent Change Management Final Documentation Sent on Time
8	CM-Average Delay Days for Documentation
9	CM- Percent ILEC vs. CLEC Changes Made
10 11	BellSouth must measure its adherence to its change management notice
12	commitments and definitions of emergency notices. This is necessary to avoid
13	BellSouth's OSS software changes from harming competitors. Often ILEC
14	failures to adhere to change management notice requirements have caused delays
15	in the building, or have stopped the functioning, of CLEC OSS interfaces.
16	CLECs must have timely notices of changes in order to plan and determine what
17	changes are required on their side of the interface. At best, late notices require
18	CLECs to pull information technology personnel from other projects to keep the
19	existing interface from going down. At worst, the CLEC cannot act quickly
20	enough to stop the changes from harming its production. Thus, simply having a
21	change management process is not enough. Reported data and enforcement of the
22	process is needed to ensure the process is effective and being followed.
23	
24	In addition, final documentation, to the change management notice, must be sent
25	on time so CLECs can begin implementing necessary changes to their interfaces
26	in order to be ready to conduct business on the date the change becomes effective.

1 Without the documentation to support the changes, CLECs cannot begin the 2 necessary work. 3 BellSouth has not yet included a metric in its SQM that tracks whether it responds fairly to CLEC requests for changes and new functionalities on its interfaces. 5 6 Although CLECs prioritize their change requests, BellSouth ignores the prioritization and implements these changes whenever it chooses. Therefore, the 7 TRA needs to order BellSouth to measure the percentage of BellSouth changes 8 made versus the number of CLEC changes made to determine whether CLEC 10 requests for interface changes are being implemented in a fair and equitable 11 manner. It also needs to measure the time it takes to review a CLEC's request for 12 a change versus performance on its change requests, as well as how long before approved changes for the CLEC versus itself are implemented. The TRA should 13 14 require BellSouth to work out an appropriate metric for this process in 15 collaboratives with CLEC Change Control Process participants. 16 OSS- Percent Software Certification Failures 17 CLECs need to be sure that their existing systems still will be able to function 18 when BellSouth introduces software upgrades. This measurement provides some 19 20 assurance that BellSouth will sufficiently test before a system is rolled out. 21 Knowing that software upgrades will not negatively impact CLEC systems will

eliminate potentially costly delays to CLECs and BellSouth. Therefore, this

metric should be adopted by the TRA.

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OSS- Software Problem Resolution Timeliness
OSS- Software Problem Resolution Average Delay Days

This metric examines how quickly BellSouth fixes software errors caused by
changes to an existing interface, establishment of a new query type or other
changes. Different standards are set based on whether there is a work-around for
the problem. If a CLEC is prevented from entering orders, extremely prompt

V. BUSINESS RULES

responses are required. The delay day measure captures the degree to which the

Q. PLEASE EXPLAIN THE SIGNIFICANCE OF BUSINESS RULES.

problem is allowed to continue by BellSouth.

A.

Business rules are the heart of every measure. Business rules state the start and stop time of each metric. They also provide the details necessary to describe processes that occur in between start and stop times. The rules regarding the collection of data for CLECs and for BellSouth also are included. Business rules must be detailed enough to allow a third party can use them to recreate BellSouth's performance measurement reports using BellSouth's raw data. They must also be structured to ensure that discrimination by BellSouth is not being masked. Many business rules associated with the BellSouth measures that were adopted by the TRA require changes to meet these criteria. As an example, the business rule for OSS Response Interval is inadequate. The BellSouth SQM business rule states that the interval starts when the client application submits a request to the legacy system and ends when the appropriate response is returned to the client application. The measurement time should begin when BellSouth receives the query from the CLEC and should end when BellSouth returns a

response to the CLEC interface. Business rule language from the Texas measures also need some modifications to reflect BellSouth's systems.

Q. PLEASE COMMENT ON BUSINESS RULE PROBLEMS WITH THE GEORGIA SQM?

A.

I have detailed problems with BellSouth's business rules and some additional inadequacies in attachments KK-A and KK-B. The former discusses problems with the metric rules BellSouth has long proposed and the latter cover problems with the business rules for new metrics ordered by the Georgia Commission. An example of a major business rule problem is how BellSouth measures the start time for the Order Completion Interval metric. BellSouth's Order Completion Interval is measured from the receipt of the confirmation and not from receipt of an error-free order. It surprisingly hangs on to this flawed business rule, which is at odds with how Verizon or SBC measures order completion intervals, and is notwithstanding that the FCC objected to it in denying BellSouth's South Carolina and Louisiana 271 petitions. The FCC did not agree with BellSouth's measurement of average intervals from the start time of confirmation issuance.

We find here, as in the BellSouth South Carolina Order, that a far more meaningful measure of parity is one that measures the interval from when BellSouth first receives an order to when service is installed. From a customer's perspective, what is important is the average length of time it takes from when the customer first contacts the carrier for service to when that service is provided. This period of time is a crucial point of comparison between the incumbent's performance and the competing carrier's performance. Therefore, the most meaningful data would measure the interval from when BellSouth first receives an order to when service is actually installed, regardless of whether or not the order electronically flows through BellSouth's operational support systems. This interval can then be compared with the average time

from when BellSouth's own service representatives first submit an 1 order for service to when BellSouth completes provision of the 2 service for its retail customers. Unlike the data BellSouth 3 provides, which measure intervals that begin when orders are 4 processed by SOCS, such a measure would expose any delays in 5 the processing of orders. As we stated in the BellSouth South 6 Carolina Order, we expect BellSouth to provide such a measure in 7 future applications. 8 9 In the Matter of Application by BellSouth Corporation, et al., Pursuant to 10 11 Section 271 of the Communications Act of 1934, as amended, To Provide 12 In-Region, InterLATA Services In Louisiana, CC Docket No. 97-231, Memorandum Opinion and Order, released February 4, 1998, ¶ 44. 13 PLEASE DISCUSS THE CIRCUMSTANCES UNDER WHICH AN ITEM 14 Q. SHOULD BE EXCLUDED FROM A MEASURE. 15 There may be several legitimate reasons to exclude certain circumstances from a 16 A. measure. These need to be agreed upon by the CLECs and BellSouth in advance 17 so that everyone understands what is included and excluded from a particular 18 19 measure. Failure or delay caused by the CLEC or the CLEC's customer is an example of a reason for excluding a transaction from the data to be reported, at 20 least for remedy purposes. Exclusion of orders that fallout for manual processing 21 from the Percent Flow Through Service Requests measure is illustrative of an 22 inappropriate exclusions modification that are required. BellSouth's SQM should 23 not exclude from the metric orders that, through no fault of the CLEC, fall out to 24 manual processing. The purpose of this measure should be to measure the percent 25 flow-through capability of BellSouth's ordering systems. Thus, while 26 BellSouth's Percent Flow Through Service Requests metric may measure whether 27

the orders BellSouth has designed to flow through actually do, it should also

provide a clear picture of those orders BellSouth has not designed to flow through. Only BellSouth, no CLECs, can improve the flow-through of error free orders. Therefore, BellSouth should be held accountable for its decision not to provide flow-through. Further, BellSouth is obligated to provide parity service. As it has provided no evidence that such orders fall out for manual processing for its retail operation, it should not be allowed to exclude such orders from its flow-through calculation for CLECs.

Another illustration of inappropriate exclusions in the BellSouth's metrics is the exclusion of non-mechanized orders from the Average Completion Notice Interval. Information regarding completion of non-mechanized orders is just as critical to the CLEC and its customers as it is for fully mechanized orders.

Further, in some cases, for example, enhanced extended loops (EELs), CLECs have no choice but to use non-mechanized ordering. This measure should be modified to require that completion notices be provided, regardless of the means of ordering.

A.

VI. DISAGGREGATION

Q. PLEASE EXPLAIN THE IMPORTANCE OF DISAGGREGATION.

Disaggregation involves breaking down performance data into sufficiently specific categories so that like-to-like comparisons can be made. Proper disaggregation prevents the masking of discrimination by ensuring that poor performance in one area (such as xDSL) from being obscured by being lumped

together with other superior performance data in an unrelated area. Just as it is important for performance metrics to be comprehensive in scope, it is critical that performance reporting be required at a sufficiently detailed level to provide meaningful results. Disaggregation should be required by geography, interface type, pre-order query type, product, service order activity, volume category, trouble type, trunk design and type (for trunk blockage measurements), maintenance and repair query type and collocation category.

The disaggregation adopted by the TRA in its Order demonstrates the Authority's acknowledgement of the value of product specific disaggregation. Given the dynamic nature of the local market, the product specific disaggregation needs to be further expanded. As an example, Line Splitting should be included as a level of disaggregation for Provisioning and Maintenance measures.

Disaggregation should be by interface type. One interface may react quicker or slower than another. The only way to determine, for example, whether BellSouth's TAG interface meets the applicable standards is to review data specifically for that interface. If TAG data is lumped together with EDI data, the performance of the TAG interface will be obscured.

Disaggregation by Pre-order query type disaggregation is important because a request for something simple like a phone number may require less response time than a request for something more complex like a due date reservation or loop

makeup information. Disaggregation for response time for error messages and percent time outs also need to be included. Product disaggregation is key because different performance can be expected based on the type of product being ordered. Lumping together one type of order that has a two day interval with another type of order that has a ten day interval and producing a report showing that on average the orders are provisioned in seven days tells one nothing about whether either type of order was provided at parity or met the benchmark. Such aggregate treatment masks disparities in service and should not be permitted. The basic principle of product disaggregation is that like products and processes product should be tracked separately. Examples of product disaggregation include resale, UNEs and trunks, broken down by residential and business customer, where appropriate. Further disaggregation for resale and UNEs include DS1s and DS3s. DS1s and DS3s have differing provisioning and repair intervals and complexities that require separate reporting. Similar to what is specified in the February Order, different unbundled loop types, such as analog voice-grade loops, digital loops, ADSL loops, HDSL loops, UCLs and xDSL loops, also should be disaggregated because BellSouth's performance will vary for each loop type. Additionally, UNE-Platform needs to be reported separately because this product combines a loop with switching and transport and is different from just ordering a port without the switching and transport. Simply stated, CLECs require products disaggregated to

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the level where relatively few dissimilarities as possible exist to be able to appropriately monitor BellSouth's performance.

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Volume category disaggregation captures differences that may arise based on the number of lines being ordered. CLECs recognize that the appropriate interval for a particular metric may depend on whether, say, five or fifty lines are being ordered. CLECs recommend that BellSouth disaggregate by volume in accordance with the differing intervals it requires for various volumes. For example, if the interval is different for 1-5 lines, than it is for 6-10 lines, then BellSouth should have to disaggregate its performance based on those volumes. To do otherwise adds together short and long intervals, masking how long it actually takes to provide service, and makes meaningful comparisons to BellSouth's service provision to its retail customers meaningless. Aggregating trunks designed at different blocking thresholds could hide serious blocking problems by averaging trunks designed to block at 2%, 1%, or 0.5% together. Disaggregation by type is also important so that blocking on crucial OS/DA or 911 trunks can be monitored by CLECs. BellSouth should at least disaggregate final dedicated trunks by the following trunk types and industry

Trunk Type

OS/DA

blocking standards:

• 911

2		2% Local and IntraLATA Toll Trunk Groups
3		• 1% Local Tandem, Local Direct Office Final, IntraLATA interexchange,
4		911, DA, DA Call Complete,
5		• 0.5% OS, IntraLATA Tandem Meet Point
6		Maintenance and manais arrows type diagrams action is important for the same
7		Maintenance and repair query type disaggregation is important for the same
8		reasons as pre-order query type disaggregation. Different types of queries can be
9		expected to take different lengths of time to process.
10		
11		Different types of collocations and augments take different amounts of time to
12		provision. For example, provisioning a cageless collocation space should require
13		substantially less time than provisioning a caged collocation space. Augments of
14		collocation space also should generally take less time than installing the original
15		collocation space.
16	0	A DE TIME OF ECA DICCA CIDECATION DEOLIECTO
17 18	Q.	ARE THE CLECS' DISSAGREGATION REQUESTS REASONABLE IN JUDGING WHETHER PARITY SERVICE HAS
19		BEEN PROVIDED?
20		
21	A .	Yes. WorldCom requests sufficient disaggregation to make the metrics
22		useful, accurate measurements of whether discrimination in performance
23		exists.
24	_	CANOTAL D. DOLV. DATA DATA DATA CONTROL MEDIA
25	Q.	SHOULD DSL PRODUCTS BE DISAGGREGATED?
26 27	A.	BellSouth needs to disaggregate its various xDSL products, since they cover
28		different service lengths and different provisioning processes. Data carriers need

Trunk Performance

to ensure that they are receiving the same treatment as BellSouth's data services affiliate, and to do that they need to have their performance compared to that provided by the affiliate on a product by product basis. Disaggregation for line splitting also is required in addition to line sharing to ensure that BellSouth is not favoring those data providers that use its voice services over those who use other voice providers.

Q. WHAT OTHER PROBLEMS EXIST REGARDING BELLSOUTH'S DISAGGREGATION LEVELS AND RETAIL ANALOGS?

10 A. There are a few areas that I would like to highlight for the Authority.

Dispatch/Non-Dispatch

For many of its provisioning and maintenance and repair measures, BellSouth inappropriately compares UNE Loops to retail dispatch services. Physical work done in a central office, which is all that is required of many UNE migration orders, should not be compared to work done in the field, including at the customer premises. If the provisioning of a UNE loop required field work as well as central office work, then of course it would be classified as a dispatch out. Provisioning and repair measures should be divided into three categories: 1) Switch-based orders, 2) central office or "dispatch in," and 3) field work or "dispatch out." Please note that these are the relevant major categories of disposition codes, in addition to those related to excluded data such as FOK/TOK/CPE, for which CLECs seek disaggregation (not all 145 disposition codes as BellSouth misinterpreted our proposal to be in Florida).

i		Loop Disaggregation	
2		DS1 loops should not be included with DS3 loops because BellSouth has different	
4		intervals for DS1 and DS3 loops And in maintenance, DS-3's usually have a	
5		higher priority restoral target because of the larger number of customers involved.	
6 7 8 9		EEL Migration Benchmarks	
10		Various CLECs have become concerned about the time it takes BellSouth to	
11		convert special access circuits to enhanced extended loops ("EELs"). The	
12		standard interval for migrations from special access to EELs should be 95%	
13		within 10 days from receipt of an error-free request for conversion. The	
14		benchmark for firm order confirmation timeliness and completion notices should	
15		be 95% in 5 hours for electronic and 24 hours for manual for each metric. CLECs	
16		also seek measurement of how quickly BellSouth would change billing rates from	
17		special access to EELs, proposing a standard of 95% within 30 days from receipt	
18		of an error-free order. At the very least, a level of disaggregation to monitor	
19		EELs conversions should be measured in Tennessee as well.	
20			
21			
22			
23	Q.	WHAT LEVEL OF GEOGRAPHIC DISAGGREGATION DO CLECS	
24		SEEK?	
25	A.	CLECs only seek the metrics needed to protect their business plans and	
26		meaningful disaggregation to determine if discrimination exists. The geographic	

disaggregation being sought is at the MSA (metropolitan statistical area) level because CLECs are concerned that if rural and urban, competitive and non-competitive areas of the state are combined, real disparities in performance will be hidden. CLECs do not have the retail data to determine when geographical disaggregation makes a difference and when it does not. If BellSouth believes that disaggregation by MSA is meaningless, it should supply the data for a period of time to show this, or it should have an unbiased third-party analyze the relationship of performance to geographic location.

In the New York Third Party OSS test, KPMG recommended the disaggregation for Special Services for metropolitan New York City from upstate New York because KPMG's study of the data showed differences in performance between Manhattan's highly competitive market and the rest of the state. POTs services already were disaggregated into five areas in New York for retail performance reporting and the same areas were adopted for wholesale POTS (resale and UNE-Platform) reporting. Such disaggregation is vital for provisioning and maintenance metrics. The Commission should focus on whether the disaggregation requested serves a purpose in making apples-to-apples comparisons of services that compete with each other or products with similar standard intervals.

⁵ "In general, the metrics may be too aggregated, especially with regard to geography. The New York City area appears to get a different level of service than other parts of the state, and CLECs have their business concentrated in this area. The result can be that BA-NY is in parity overall, but out of parity region by region or vice versa." KPMG Consulting's New York final report released August 6, 1999, p. POP8 IV-20.

- 1 There is another consideration: The CLECS do not want to have BellSouth use excessive
- 2 aggregation against them in a 271 proceeding by explaining that it is missing average
- 3 interval metrics repeatedly because of differences in order mix as compared to CLECs.
- 4 This concern is not conjecture on the CLECs' part, but is a fact learned from Verizon's
- 5 two successful applications for 271 approval, where that ILEC claimed that failures of its
- 6 average interval metrics were due to differences in (1) order mix (CLECs were ordering
- 7 more four-day interval products and features and Verizon more one and two-day products
- and features) and (2) geography. Verizon provided independent studies of samples of its
- 9 retail and wholesale service requests that the CLECs did not have time to analyze and
- offer counter studies. Disaggregation will protect BellSouth from wrongly being
- 11 wrongly accused of discrimination just as much as it will help CLECs detect real
- 12 discrimination.

⁶ Bell Atlantic had claimed that statistically significant failures in its Average Interval metric were the result of three issues. One of the issues concerned errors in excluding longer than standard interval requests. That issue now has been automated and eliminated, but the other two issues remain because of insufficient disaggregation. These issues are (1) for dispatch orders, CLECs are ordering a relatively larger share of services and UNEs that have long standard intervals (the "order mix" problem), and (2) for dispatch orders. CLECs are ordering a relatively larger share of services in certain geographic areas and, as a result, reflect later available due date (the "geographic mix" problem). In its CC DOCKET NO. 99-295 order approving Bell Atlantic New York's 271 application, released December 22, 1999, the FCC said: "In conjunction with its Average Completed Interval data, Bell Atlantic submits a study by Dr. Gertner and Dr. Bamberger (Gertner/Bamberger study) to support its claim that its Average Completed Interval data is flawed for these reasons. We note that although AT&T criticized some aspects of the Gertner/Bamberger study, no commenter disagrees with Bell Atlantic's assertions that its Average Competed Interval data is flawed. By submitting a study to substantiate its claims that the Average Completed Interval data is flawed, we note that Bell Atlantic's application is quite different from BellSouth's Louisiana II application. In that application, although BellSouth's data on its face consistently supported a general conclusion that BellSouth provided services to competing carriers' customers in twice the amount of time that it provided services to its retail customers, BellSouth offered no analysis or other evidence that purported to explain why these data might be flawed or to supplement BellSouth's showing on OSS provisioning." The Tennessee CLECs want to avoid this war of studies, and instead achieve like-to-like comparisons of geographic and order mix intervals in this proceeding.

The CLECs cannot believe that the disaggregation they request can be more demanding 1 on computer processing and capacity⁷ than the statistical testing down to the end office 2 that BellSouth has elected to do. There must be multiple, possibly dozens of end offices 3 in each MSA to examine. With the conduct of permutation testing on small sample sizes, 4 BellSouth must be using way more capacity than the CLECs' further disaggregation 5 proposals require. Perhaps if BellSouth only did its testing down to the MSA level it 6 could accommodate CLECs' real needs for disaggregation and save computer costs. 7 Further, in the Georgia Third Party OSS Test, KPMG found that BellSouth has the tools 8 in place that enable it to store data in an adequate fashion and scale its data collection 9 appropriately: 10 BLS has established procedures for monitoring its available 11 storage capacity for online systems, including the 12 legacy/source systems and the PMAP Systems as well as 13 procedures for monitoring back up capacity for all systems. 14 BLS has also established policies and procedures for 15 acquiring additional capacity. BLS monitors available 16 space on PMAP and can add additional within four weeks. 17 18 KPMG Consulting's Final Report issued March 20, 2001, VIII-A-7. KPMG also noted 19 that some of the databases that are part of the PMAP contain data that are not required for 20 current reporting, which could be causing the problems that the CLECs have noted with 21 the responsiveness of the PMAP website. In section VIII-A-5 of its report, KPMG said: 22 BLS populates the tables in Staging with snapshots of 23 Barney data. These snapshots contain more data than is 24 required for production of the current SQMs. The PMAP 25 production team has been experiencing difficulty in 26 creating these snapshots due to space limitations in Barney 27 and is working on loading data directly into Staging 28 without using Barney. 29

⁷ BellSouth claims of excessive costs at a time when computer processing and database storage costs are declining dramatically.

1 2 3 4	VI. RETAIL ANALOGS		
5 6	A.	A retail analog is a service or function that BellSouth provides for itself, its	
7		customers or its affiliates that is analogous to a service or function that BellSouth	
8		provides to CLECs. When a BellSouth retail analog exists, BellSouth's	
9		performance for itself, its customers and its affiliates should be compared to its	
10		performance for CLECs to determine if BellSouth is meeting the Act's parity	
11		requirement. It is appropriate to choose a retail analog that is similar to the service	
12	or product being measured.		
13	Q.	WHAT SHOULD THE AUTHORITY DO WHEN NO RETAIL ANALOG	
14		EXISTS?	
15	A.	If no retail analog exists, BellSouth's performance must be gauged by a	
16		performance standard, known as a benchmark. A benchmark is a set level of	
17		performance, such as provisioning a particular UNE 95% of the time within three	
18		days.	
19 20		Benchmarks should be based on the level of performance that can be expected to	
21		offer an efficient carrier a meaningful opportunity to compete. Benchmarks	
22		cannot be based simply on BellSouth's historical performance. The fact that	
23		BellSouth has provided a certain level of service to CLECs in the past does not	
24		mean that level of service provides CLECs a meaningful opportunity to compete	

analog that is similar to the service or product being measured.

or to even meet Tennessee's end user standard. It is appropriate to choose a retail

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VI. **CONTINUING WORK**

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2 Q. HOW CAN THE TRA FINISH THE WORK IN THIS DOCKET?

3 A. In addition to ruling on whether the proposed new metrics, standards and business 4 rule changes proposed by the CLECs, the TRA should establish a process for 5 working out business rules between BellSouth and CLECs to provide the detailed 6 give and take needed to propose a metric that addresses the CLECs needs and 7 BellSouth's systems and processes. The metrics on Percent CLEC vs. BellSouth 8 Changes Made and Response Commitments Met metrics are examples of those that could be better constructed if the TRA orders BellSouth to implement them 10 but work out the business rules collaboratively with CLECs. The Authority needs to establish a forum going forward that will continue to review and refine the metrics based on competitive experiences in the BellSouth region. New York and Texas have put a lot of effort into improving metrics, adding new ones and deleting ineffective ones post-271 approval. They also had administrative law judges sitting in on their pre-271 metric collaboratives to ensure that the ILEC

In the FCC's December 22, 1999, order approving Verizon-NY's 271 application, the FCC said: "A number of state commissions, including New York, have established a collaborative process through which they have developed, in conjunction with the incumbent and competing carriers, a set of measures. or metrics, for reporting of performance in various areas. Through such collaborative processes, New York has also adopted performance standards for certain functions, typically where there can be no comparable measure based on the incumbent LEC's retail performance. We strongly encourage this type of process, because it allows the technical details that determine how the metrics are defined and measured to be worked out with the participation of all concerned parties. We also strongly support the efforts of state commissions to build and oversee a process that ensures the development of local competition that Congress intended. An extensive and rigorous evaluation of the BOC's performance by the states provides greater certainty that barriers to competition have been eliminated and the local markets in a state are open to competition." In re: Application by Bell Atlantic New York for Authorization Under Section 271 of the Communication Act to Provide In-Region, InterLATA Service in New York, CC Docket No. 99-295, Memorandum Opinion and Order ¶ 54 (released Dec. 22, 1999).

made an effort toward satisfying CLEC requests. The TRA must acknowledge that monitoring and adjusting is crucial to ensuring compliance with the Act.

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4 Q. FROM TIME TO TIME, SHOULD THE AUTHORITY REVIEW THE METRICS IT ADOPTS?

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A. Yes. It is fair to say that the area of performance measurements still is evolving. In some cases, for example, BellSouth may (and should) develop new functionalities that will need to be measured. For instance, CLECs need timely billing completion notices, which notify an CLEC that BellSouth's billing system has been adjusted to account for the customer migrating to the CLEC, so the CLEC may begin billing its customers, sending fulfillment information and addressing any problems or issues its customer encounters. If the orders BellSouth to provide billing completion notices, then a metric should be adopted (or an existing metric expanded) to measure BellSouth's performance in this area. This is different from annual audits, which focus on whether the metric is being reported properly with accurate coding of exclusions and adherence to reporting guidelines. Metric and remedies plan review is designed to determine if metrics and remedies are sufficient as they are or require additions, deletions or modifications to promote competition. The scope of the review should include all existing metrics.

⁹ In its Docket No. 7892-U order on reconsideration and clarification of its performance measurements and remedy decision. the Georgia Commission found said: "The Commission Staff has reviewed the Pre-Ordering data from the Third-Party Test and a January 16th filing by KPMG on this issue and agrees that additional time for security measures and computer translations needed to process pre-order inquires from CLECs are appropriate. Therefore the Commission orders Parity + 2 Seconds as the Retail Analog for Pre-Order responses."

0. SHOULD AUDITS BE REQUIRED?

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A. Yes. Comprehensive annual audits of reporting methodology and accuracy of data (particularly employee use of codes that could lead to exclusion of data from metrics) are required. In addition, BellSouth's adherence to metric change control policies should be reviewed as the lack of follow-through on such policies would thwart the replication of past metric reports. The audit would cover all reporting procedures and reportable data. It would include all systems, processes and procedures associated with the production and reporting of performance measurement results.

declining dramatically. See Oracle press release attached

[&]quot;In general, the metrics may be too aggregated, especially with regard to geography. The New York City area appears to get a different level of service than other parts of the state, and CLECs have their business concentrated in this area. The result can be that BA-NY is in parity overall, but out of parity region by region or vice versa." KPMG Consulting's New York final report released August 6, 1999, p. POP8 IV-20.

Bell Atlantic had claimed that statistically significant failures in its Average Interval metrics were the result of three issues. One of the issues concerned errors in excluding longer than standard interval requests. That issue now has been automated and eliminated, but the other two issues remain because of insufficient disaggregation. These issues are (1) for dispatch orders, CLECs are ordering a relatively larger share of services and UNEs that have long standard intervals (the "order mix" problem), and (2) for dispatch orders, CLECs are ordering a relatively larger share of services in certain geographic areas and, as a result, reflect later available due date (the "geographic mix" problem). In its CC DOCKET NO. 99-295 order approving Bell Atlantic New York's 271 application, released December 22, 1999, the FCC said: "In conjunction with its Average Completed Interval data, Bell Atlantic submits a study by Dr. Gertner and Dr. Bamberger (Gertner/Bamberger study) to support its claim that its Average Completed Interval data is flawed for these reasons. We note that although AT&T criticized some aspects of the Gertner/Bamberger study, no commenter disagrees with Bell Atlantic's assertions that its Average Competed Interval data is flawed. By submitting a study to substantiate its claims that the Average Completed Interval data is flawed, we note that Bell Atlantic's application is quite different from BellSouth's Louisiana II application. In that application, although BellSouth's data on its face consistently supported a general conclusion that BellSouth provided services to competing carriers' customers in twice the amount of time that it provided services to its retail customers, BellSouth offered no analysis or other evidence that purported to explain why these data might be flawed or to supplement BellSouth's showing on OSS provisioning." The Kentucky CLECs want to avoid this war of studies, and instead achieve like-to-like comparisons of geographic and order mix intervals in this proceeding.

12 BellSouth claims of excessive costs at a time when computer processing and database storage costs are

some cases, for example, BellSouth may (and should) develop new functionalities that will need to be measured. For instance, CLECs need timely billing completion notices, which notify a CLEC that BellSouth's billing system has been adjusted to account for the customer migrating to the CLEC, so the CLEC may begin billing its customers, sending fulfillment information and addressing any problems or issues its customer encounters. If the Commission orders BellSouth to provide billing completion notices, then a metric should be adopted (or an existing metric expanded) to measure BellSouth's performance in this area. This is different from annual audits, which focus on whether the metric is being reported properly with accurate coding of exclusions and adherence to reporting guidelines. The metric and remedies plan review is designed to determine if metrics and remedies are sufficient as they are or require additions, deletions or modifications to promote competition. The scope of the review should include all existing metrics, rules, calculations, disaggregation and standards; the need for new metrics; the need to eliminate or revise useless metrics; and the adequacy of the current remedy plan. CLEC market experience will continue to grow and indicate whether adjustments to the remedy plan and metrics are needed. Other states have set six-month reviews of metrics. The New York Carrier-to-Carrier Working Group continues to meet monthly, developing a report on

It is fair to say that the area of performance measurements still is evolving. In

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accompanied by an Administrative Law Judge recommendation, for a vote.

consensus and non-consensus items to be referred to the commission,

Although ILECs often dispute new measures or changes, claiming that Verizon-NY and SBC-Texas received 271 approval without them, both Texas and New York have added new metrics, modified standards, and taken other actions post-271 approval. Vigilance is required to ensure that metric and remedy systems are appropriate to open local markets in the first place as well as prevent backsliding after 271 approval when the TRA and FCC get to that point for Tennessee.

8 Q: HOW OFTEN SHOULD SUCH AUDITS BE CONDUCTED, AND HOW SHOULD THE AUDIT SCOPE BE DETERMINED?

A. A comprehensive audit should be conducted every twelve months, with the first such audit commencing twelve months after the conclusion of the KPMG OSS Test's metric replication. The audit scope should be determined in an audit process that is open to CLECs.

Q. WHO SHOULD BE REQUIRED TO PAY AUDIT COSTS?

A.

Costs for these annual audits should be borne by BellSouth. BellSouth is the dominant market provider with the incentive and ability to discriminate. To ensure that BellSouth's reporting is accurate and trigger remedies designed to curb its incentives to discriminate, comprehensive annual audits are critical. The FCC's order approving Verizon's 271 application to enter the New York long-distance market noted that an important characteristic of Verizon's Amended Performance Assurance Plan was "reasonable assurances that the reported data is accurate." In re: Application by Bell Atlantic New York for Authorization Under Section 271 of the Communication Act to Provide In-Region, InterLATA Service

in New York, CC Docket No. 99-295, Memorandum Opinion and Order ¶ 433
(rel. Dec. 22, 1999). This assurance should come at the incumbent's expense.

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Q. WHO SHOULD SELECT THE THIRD-PARTY AUDITOR?

A. The third-party auditor should be jointly selected by BellSouth and the CLECs. If the parties cannot agree on the auditor, the Commission should determine the auditor.

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10 Q. SHOULD A CLP HAVE THE RIGHT TO REQUEST AN INTERIM OR MINI-AUDIT?

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Yes. In addition to an annual audit, CLECs should have the right to mini-audits of individual performance measures/submeasures during the year. When a CLEC has reason to believe the data collected for a measure is flawed or the reporting criteria for the measure is not being adhered to, it should have the right to have a miniaudit performed on the specific measure/sub-measure upon written request (including e-mail), which will include the designation of a CLEC representative to engage in discussions with BellSouth about the requested mini-audit. If, thirty days after the CLEC's written request, the CLEC believes that the issue has not been resolved to its satisfaction, the CLEC should be able to commence the miniaudit upon providing BellSouth with five business days advance written notice. Each CLEC would be limited to auditing three single measures/sub-measures or one domain area (preorder, ordering, provisioning, maintenance or billing) during the audit year. The audit year would begin with the start of the OSS test (or an annual audit). Mini-audits could be requested for months including and subsequent to the month in which the KPMG OSS or an annual audit was initiated. Mini-audits could not be requested by a CLEC while the OSS third party test or an annual audit was being conducted (that is, before completion).

Mini-audits would include all systems, processes and procedures associated with the production and reporting of performance measurement results for the audited measure/sub-measure. Mini-audits would include two months of data. All parties agree that raw data supporting the performance measurement results will be available monthly to CLECs.

No more than three mini-audits would be conducted simultaneously unless more than one CLEC wanted the same measure/sub-measure audited at the same time, in which case mini-audits of the same measure/sub-measure should count as one mini-audit for this purpose. Mini-audits would be conducted by a third-party auditor, selected by the same method as described above. BellSouth would pay for fifty percent of the costs of the mini-audits. The other fifty percent of the costs will be divided among the CLEC(s) requesting the mini-audit unless BellSouth is found to be "materially" misreporting or misrepresenting data or to have non-compliant procedures, in which case, BellSouth would pay for the entire cost of the third party auditor. BellSouth would be "materially" at fault if a reported successful measure changed as a consequence of the audit to a missed measure, or if there was a change from an ordinary missed measure to intermediate or severe. Each party to the mini-audit should bear its own internal

1	costs, regardless of which party ultimately bears the costs of the third party
2	auditor.
3	
4	If, during a mini-audit, it was found that for more than thirty percent of the
5	measures in a major service category BellSouth was "materially" at fault (that is,
6	a reported successful measure changes as a consequence of the audit to a missed
7	measure, or there was a change from an ordinary missed measure to intermediate
8	or severe), the entire service category would be re-audited at BellSouth's expense.
9	The major service categories for this purpose would be:
10	Pre-Ordering/Ordering
1	• Billing
2	 Provisioning - POTS and UNE Loop and Port Combinations
3	 Provisioning - Resale Specials and UNE Loop and Port
4	Combinations
15	Provisioning - Unbundled Network Elements
16	Maintenance - POTS and UNE Loop and Port Combinations
17	Maintenance - Resale Specials and UNE Loop and Port
8	Combinations
9	Maintenance - Unbundled Network Elements Letonomy and Toronto.
20	Interconnection TrunksLocal Number Portability
21	 Local Number Portability Database - 911
22 23	Database - 911 Database - Directory Assistance
24	Database - Directory Assistance Database - NXX
25	• Collocation
26	Coordinated Conversions
27	- Coordinated Conversions
28	Each mini-audit should be submitted to the CLEC involved and to the Commission
29	as a proprietary document. BellSouth should provide notification to all CLECs of
30	any mini-audit requested when the request for the audit is made.
31	

Q.	SHOULD BELLSOUTH BE REQUIRED TO PROVIDE THE RAW DATA
	UPON WHICH ITS PERFORMANCE REPORTS ARE BASED?

A. Yes. Although BellSouth provides raw data for several measures today, in other cases, such as LNP measures, it does not. Further, in other cases BellSouth provides raw data, but not in a manner that allows its meaningful use by the CLEC. For example, while BellSouth provides raw data for its hot cut timeliness measure, it does not provide the Purchase Order Number so that a CLEC can compare its own data to that reported by BellSouth to validate the accuracy of BellSouth's reports. Finally, other raw data is flawed and thus cannot be used for its intended purposes of validating BellSouth's performance reports. For example, the raw data for the FOC and rejection measures includes null values and calculated duration intervals.

VIII. BELLSOUTH'S PMAP

Q. DO CLECS HAVE PROBLEMS OPERATING PMAP TO OBTAIN REPORTS?

A. Yes. BellSouth only allows one metric report to be pulled at a time. To pull all the metrics related to WorldCom's UNE-P launch in Georgia took hours of attention as a CLEC cannot even check off the multiple metrics the CLEC wants in a report and then go away to let a full report download. This process is slow and tedious, as the data analyst must type in instructions for each metrics as reports are downloaded. A CLEC cannot get anything remotely near the FCC format filed with BellSouth's application that has all the metrics together and what standards of performance apply.

IX. HOT CUTS

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2	Q.	IS BELLSOUTH'S HOT CUT METRIC APPROPRIATE?
3	A.	No. Also, BellSouth's hot cut timeliness metric for hot cuts, unlike
4		Verizon and SBC, does not determine whether the cut ended on time. It
5		only measures whether the cutover started on time. Also, it only reports
6		an average time per loop, not cut-specific information on the cutover.
7		
8		BellSouth's Order Accuracy metric also does not describe the sampling
9		number or process involved. CLECs cannot make a determination
10		whether their types of orders are being sampled at levels that provide
11		statistically valid results. This is a metric BellSouth often tries to eliminate
12		when proposing permanent metrics, which leads to suspicions order
13		accuracy is a problem area for BellSouth. It claims that billing accuracy
14		does the same job, but the billing accuracy does not pick up all errors, only
15		those that require a reduction in charges on the bill. And because
16		BellSouth can delay adjustments to make billing performance look better
17		than it really is, the billing metric needs to be augmented by the Billing
18		Errors Corrected in X Days as proposed by the CLECs.
19		
20		BellSouth's flow through metric only covers orders designed to flow
21		through and has benchmarks different than those designated by Verizon
22		and SBC for Designed Flow-Through metrics. A total flow through

metric also is required, and BellSouth's proposed Achieved Flow Through

1 benchmarks are more appropriate for total flow through. The New York Performance Assurance Plan applies a remedy if Verizon does not meet 2 3 either an 80% flow through rate or a 95% Achieved Flow-Through Rate. In fact, BellSouth's overall performance standards are low. While only a couple of metrics in the New York or Texas plans have benchmarks below 5 95%, about 50% of the metrics imported from the Georgia decision— 6 7 albeit much more than as originally proposed by BellSouth—have benchmarks lower than 95%. BellSouth's Change Control Notes and Documentation Timeliness metrics 10 11 have unbelievably short intervals of 30 days, particularly compared to 12 Verizon's y93 day (for business rule changes) and 66 days (for technical 13 documentation) notice and documentation intervals. X. **AFFILIATES** 14 15 Q. UNDER WHAT CIRCUMSTANCES WOULD IT BE APPROPRIATE TO 16 17 COMPARE BELLSOUTH'S PERFORMANCE TO ITS AFFILIATES WITH BELLSOUTH'S PERFORMANCE TO CLECS? 18 19 20 A. Any time BellSouth's affiliates resell BellSouth's retail services or buy the same 21 types of interconnection services or UNEs, it is appropriate to compare the 22 affiliate's treatment to the way BellSouth's competitors are treated. The Act 23 requires BellSouth to provide interconnection with its network "that is at least equal in quality to that provided by [BellSouth] to itself or to any subsidiary, 24 affiliate, or any other party to which [BellSouth] provides interconnection." Act, § 25 26 251(c)(2)(C). The Act also requires BellSouth to provide nondiscriminatory

.1		access to network elements. Act, § 251(c)(3). The FCC has interpreted this
2		requirement to mean that the quality of a UNE and the quality of access to the
3		UNE that an incumbent local exchange carrier provides to a requesting carrier
4		must be the same for all requesting carriers. See 47 C.F.R. § 51.311(a).
5		
6		The FCC has confirmed that for Section 271 purposes, a Bell Operating
7		Company must establish that for functions that it provides CLECs that are
8		analogous to the functions it provides itself, the BOC must provide access that is
9		substantially the same as the level of access the BOC provides to itself, its
10		customers or its affiliates. In re: Application by Bell Atlantic New York for
11		Authorization Under Section 271 of the Communication Act to Provide In-Region,
12		InterLATA Service in New York, CC Docket No. 99-295, Memorandum Opinion
13		and Order (rel Dec. 22, 1999), ¶ 44 ("Bell Atlantic New York Order").
14 15 16 17	Q.	HAVE OTHER STATES ADDRESSED THE ISSUE OF AFFILIATE REPORTING?
18	A.	Yes. The Michigan Public Service Commission recently required SBC Ameritech to
19		include comparisons to affiliate performance in its remedy plan.
20		
21 22 23 24		The Commission concludes that the comparison to service provided to Ameritech Michigan's affiliates as well as service to its own retail customers should be part of the performance remedy plan. Section 251 of the FTA requires that Ameritech not provide inferior service to the CLECs as compared to its offiliates. It may be true that the metter could be
252627		as compared to its affiliates. It may be true that the matter could be addressed in another manner, but the Commission finds no persuasive reason for doing so. A comparison to the performance it provides its

· 1	affiliates or retail customers, whichever is better, shall therefore be part of	
2	the remedy plan approved by this order. ¹³	
3 4	Earlier the Pennsylvania commission required such affiliate reporting and turned	
5	down Bell Atlantic's claim that such reporting should only be applied to CLP-like	
6	affiliates, which it did not even have:	
7		
8	As noted by the ALJs, BA-PA does not have any affiliates	
9	operating under interconnection agreements; therefore, we find	
10	that BA-PA's definition actually provides for no reporting at all.	
11	This proceeding must provide this Commission, BA-PA, and the	
12	CLEC community with sufficient information upon which to	
13	objectively measure the delivery of non-discriminatory access to	
14	CLECs. In order for this metric to provide any meaningful	
15	measurement, it must include a broader definition than that	
16	proposed by BA-PA. We agree with the ALJs that it is essential	
17	that BA-PA report on the level of service it provides to its	
18	affiliates, and we shall adopt the recommendation of the ALJs on	
19	this issue. BA-PA shall report the service quality delivered to all	
20	BA-PA affiliates and subsidiaries (CLEC and non-CLEC) which	
21	order services, UNEs, or interconnection from BA-PA. ¹⁴	
22		
23	Pacific Bell and Verizon California (legacy GTE) have been voluntarily reporting	
24	all affiliate data for some time. The metric report structure for the California Joint	
25	Partial Settlement metrics lists under reporting structure for the various metrics	
26	"Individual CLECS, CLECs in the aggregate, By ILEC (if analog applies) and	
27	ILEC affiliates." (Emphasis added).	
28		
29	BellSouth should include in its reporting all affiliates that buy interconnection or	
30	unbundled elements or that resell BellSouth's services. Such affiliates would	

 ¹³ Case No. U-11830, In the matter of Ameritech Michigan's submission on performance measures, reporting and benchmarks, pursuant to the October 2, 1998 order in Case No. U-11654, pp. 12-13.
 ¹⁴ P-00991643, Joint petition of NEXTLINK Pennsylvania, Inc., RCN Telecommunications Services of Pennsylvania, Inc., Hyperion Telecommunication, Inc., ATX Telecommunications, Focal Communications Corporation of Pennsylvania, Inc., CTSI, Inc., MCI WorldCom, e.Spire Communications, and AT&T Communications of Pennsylvania, Inc., for an Order Establishing a Formal Investigation of Performance Standards, Remedies, and Operations Support Systems Testing for Bell Atlantic-Pennsylvania, p. 21.

1		include any future BellSouth long distance affiliate, to ensure it is not being given
2		more favorable treatment than BellSouth's combined local and long distance
3		competitors. Any affiliate, as affiliate is defined by the Communications Act,
4		which buys services similar to those purchased by CLECs should be included.
5 6		
7 8 9	Q,	IS IT REASONABLE FOR BELLSOUTH TO COMBINE ITS AFFILIATES' DATA WITH OTHER CLECs ?
10	A.	Absolutely not. If the affiliate were receiving unlawfully preferred service, this
11		would only serve as a thumb on the scale to make the treatment of the competitors
12		look better as a whole than it actually is. See the quote from the New York PSC
13		above. Further, in its response to the CLEC Coalition's motion for Clarification and
14		Reconsideration in Georgia in Docket 7892-U, the Commission found that
15		"BellSouth shall not include its Affiliate data in the remedy calculation as it applies
16		to industry-level remedies."
17 18		
19	Q.	ARE COMPARISONS OF PERFORMANCE TOWARD CLECS AND
20		AFFILIATES IRRELEVANT FOR BENCHMARKS?
21 22	A.	No. When an affiliate is created and starts ordering through the same systems and
23		processes as the CLECs, this creates a retail analog where none existed before.
24		While the ILEC itself never ordered collocations, or received FOCs or Rejects, its
25		affiliate will order collocations and receive the same order status notices as the
26		CLECs. Thus, where the affiliate is ordering the same types of services as the

- 1 CLECs, its activities can either be used for parity comparisons or to reset a
- benchmark to what might be more favorable intervals received by the affiliate.
- 3 XI. AUDITS
- 4 IX. REMEDIES
- 5 Q. DOES THE TRA HAVE THE AUTHORITY TO ORDER A SELF-
- **EXECUTING REMEDY PLAN?**
- 7 A. Yes. I am not a lawyer and I understand the question of legal authority was
- 8 extensively briefed in the ITC^DeltaCom arbitration at the request of Director Malone. It
- 9 seems clear to me that the Authority has the legal authority to order the implementation
- of a self-executing remedy plan under Section 251 of the Act, with or without
- BellSouth's consent. The TRA also has found that the Act gives it the authority to
- arbitrate and to consider performance measurements, standards and remedies in a generic
- proceeding. In moving (among other things) to adopt enforcement mechanisms in the
- 14 ITC^DeltaCom arbitration, Director Greer explained at length why the TRA had the
- authority to do so. He noted that (i) BellSouth tariffs approved by the TRA contain self-
- effectuating performance measures and guarantees; (ii) the Department of Justice has
- 17 concluded that the issue of performance guarantees should be resolved through contracts
- or regulatory proceedings; (iii) numerous courts have held that public service
- commissions may impose performance guarantees in interconnection agreements¹⁵; and
- 20 (iv) the Act requires the TRA to arbitrate those issues brought before it. In re Petition for
- 21 Arbitration of ITC DeltaCom Communications, Inc. with BellSouth Telecommunications,
- 22 Inc. Pursuant to the Telecommunications Act of 1996, Docket No. 99-00430, Transcript
- 23 at 7, 10-11 (April 4, 2000).

As Director Greer stated, "[t]he Act, the FCC, and the DOJ have concluded that state commissions have the authority where the parties have not agreed to the terms of agreement to impose enforcement mechanisms as a vehicle to ensure that the telecommunications market is irreversibly open to competition in accordance with congress's intent." Transcript at 11-12. The TRA approved the motion unanimously.

Although the decision was issued in an arbitration proceeding, a public service commission's authority to require self-executing remedies is not limited to that context. As Director Greer stated: "Performance measures provide the necessary information to determine if BellSouth is complying with these requirements [of Section 251(c) of the Act], and enforcement mechanisms encourage BellSouth to meet the requirements of Section 251." Transcript at 14. He continued: "I find the Arbitrators should adopt performance measures with standards and benchmarks and enforcement mechanisms. These measurement mechanisms should remain in effect until this Authority conducts a generic proceeding to adopt permanent performance measurements with standards and enforcement mechanisms applicable to all CLECs." *Id.*

The Commission has the legal authority to order the implementation of a selfexecuting remedy plan under the Act, with or without BellSouth's consent. By enacting the Federal Telecommunications Act of 1996, Congress mandated the

¹⁵ See, e.g., U S West Communications, Inc. v. TCG Oregon, 31 F. Supp.2d 828 (D. Ore. 1998).

20 Q.	IS BELLSOUTH'S REMEDY PLAN ADEQUATE?
19	executing remedies plan is simply an enforcement technique.
18	Commission has the authority to enforce Section 251 and adoption of a self-
17	00991643, December 31, 1999. (Pennsylvania Order) The South Carolina
16	Testing for Bell Atlantic-Pennsylvania, Inc., Opinion and Order, Docket No. P-
15	Establishing Performance Standards, Remedies, and Operations Support Systems
14	Communications, and AT&T Communications of Pennsylvania, Inc., for an Order
13	Corporation of Pennsylvania, Inc., CTSI, Inc., MCI WorldCom, e.spire
12	Telecommunications, Inc., ATX Telecommunications, Focal Communications
11	Telecommunications Services of Pennsylvania, Inc., Hyperion
10	obligations." Joint Petition of NEXTLINK Pennsylvania, Inc., RCN
9	the Commission's authority to ensure that BA-PA fulfills its Section 251
8 .	implementation of performance measures and standards is a legitimate exercise of
7	Section 251. As the Pennsylvania Commission found "[t]his Commission's
6	including BellSouth, provide nondiscriminatory access to their OSS pursuant to
5	U.S.C. §251(c)(3)). The Commission has oversight authority to ensure that ILECs
4	nondiscriminatory access to network elements on an unbundled basis" (47
3	telecommunications carrier for the provision of a telecommunications service,
2	like BellSouth are obligated, among other things, "to provide, to any requesting
1	opening of local telecommunications markets to competition. Specifically, ILECs

No. BellSouth's per occurrence remedy plan and proposed parameter delta of $1\,$

21

A.

1	will ensure that remedies remain low even as competition is deterred. WorldCom
2	supports AT&T witness Cheryl Bursh's objections as expressed in her pre-filed
3	testimony to the plan and alternative proposal.

4 Q. DO YO HAVE ANY COMMENTS ABOUT THE BELLSOUTH REMEDY

PLAN IN ADDITION TO YOUR SUPPORT OF MS. BURSH'S

6 TESTIMONY?

BellSouth's proposal is markedly different from the New York, Texas and 7 A. California plans that have a fixed critical value for determining whether parity 8 exists for all sample sizes. While these plans have forgiveness tables for random 9 variation, the delta proposed by BellSouth would go beyond those forgivenesses 10 for a set number of metric failures and provide a wide range of discrimination to 11 continue without requiring even its minimum per occurrence payments. The = .25 12 13 delta adopted by the TRA in the ITC^DeltaCom arbitration provides adequate 14 forgiveness to BellSouth for performance variations that might not be 15 competitively significant without setting a high degree of allowed discrimination.

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18

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Q. DOES THIS CONCLUDE YOUR TESTIMONY AT THIS TIME?

19 A. Yes.

¹⁶ In addition, the data supplied by BellSouth only contained three modes of entry, yet BellSouth proposes to pay remedies on five modes of entry.

¹⁷ In an ex parte filed with the FCC on June 7, 2000 AT&T proposed a formula for the development of a parameter value for proportions: delta = 2(arcsin (sqrt (pCLEC))) = arcsin (sqrt (pILEC))).

BellSouth Measurement	Business Rules, Exclusions, Calculations and Standards in Need of Immediate Change ¹
OSS-1. Average Response Time and Response Interval (Pre-Ordering)	Definition: The measurement time should begin when BellSouth receives the query from the CLEC and should end when BellSouth returns a response to the CLEC interface. BellSouth should be accountable for the period of time in which the query and its response are in its possession. Measuring a part of the process, as BellSouth does currently, provides inadequate and misleading information that does not reflect the CLEC experience or BellSouth's performance. The Commission should adopt a definition like that in the Texas plan, which states: "The clock starts on the date/time when the request is received by SWBT, and the clock stops on the date/time when SWBT has completed the transmission of the response to the CLEC."
	incorrect queries from the measure. The query type measurements should show how long it takes to return valid query information that is useful to the CLEC. Responses to invalid queries could come more quickly than a response to a valid query, thus diluting the results in terms of how quickly CLECs receive the information sought through a syntactically correct query. (2) BellSouth should not be allowed to drag its feet in measuring new query types and new interfaces. It should agree to report on such new queries and interfaces within six to eight weeks after they go into production. BellSouth will be well aware of a new query or interface coming on line long before that interface or query type goes into production for CLECs, so the timeline proposed is more than generous.
	Disaggregation: BellSouth must capture all interfaces used, including PSIMS, and it must measure the speed of rejected queries and the number of queries receiving time outs to capture all preorder response time issues of concern to CLECs. Numerous time outs and slow rejects, as well as the speed of other query responses, can add up and cause a customers to become frustrated while the CLEC is trying to sign them up to new service.
OSS-2. Interface Availability (Pre-Ordering)	Data Retained: BellSouth should be required to post its own scheduled hours of OSS availability on its web-site as it currently does for CLEC OSS availability. Parity of scheduled availability cannot be determined without this information. If CLECs do not know the starting point of this measure, the usefulness of the % schedule met is limited.
OSS-3. Interface Availability (Maintenance & Repair)	Disaggregation: BellSouth needs to disaggregate by all its OSS Systems, including those proposed by CLECs in the task force report. If any route to that OSS varies, then each interface route should be reported separately.

¹ Although some specific concerns about disaggregation and benchmarks are raised here, the full level of disaggregation and detailed information on analogs and benchmarks are described in other of my exhibits.

Data Retention: BellSouth should be required to post its own scheduled hours of OSS availability on its web-site as it currently does for CLEC OSS availability. Parity of scheduled availability cannot be determined without this information. Without such understanding of the starting point of this measure, the usefulness of the % schedule met is limited. BST also must not do system maintenance more often in CLEC prime operational hours: 5 to 9 p.m. versus its own prime hours: 9 to 5 p.m.

OP-1. Percent Flow-through Service Requests (Summary) OP-2. Percent Flow-through Service Requests (Detail) OP-3. Flow-through Error Analysis Exclusions: BellSouth's SQM should not exclude orders that fall to manual, through no fault of the CLEC, from the metric. It may measure whether the orders it has designed to flow through actually do, but it should also show the whole story on what orders have not yet been designed to flow through. The purpose of this measure should be to measure the percent flow-through capability of BellSouth's ordering systems. CLECs cannot improve the flow-through of error free orders, only BellSouth can. Therefore, it should be held accountable for its decision not to provide flow-through. Further, BellSouth is obligated to provide parity service. As it has provided no evidence that such orders fall out for manual processing for its retail operation, it should not be allowed to exclude such orders from its flow-through calculation for CLECs.

In addition to the current level of discrimination, another consequence of allowing this exclusion is that BellSouth has no incentive, perhaps even a disincentive to improve its performance. Yet it is clear that the lack of flow-through causes additional delays, errors and costs. For example, FOC intervals are much longer for partially mechanized orders. It is also undisputed that having to re-key an order delays it and re-keying or otherwise manually handling an order increases the risk of error, which either causes the order to reject, creating more delay, or perhaps even to be provisioned incorrectly. CLECs request that the Commission reject this unjustified and discriminatory exclusion. At a minimum, the Commission should establish a timely sunset provision² on this exclusion to cause BellSouth to improve its flow-through performance. Fall out from errors occurring in SOCS should be included in the metrics, as should all fall out resulting from BST system issues. See Birch testimony.

Additionally, BellSouth does not provide this report for LNP LSRs.

Benchmark: BellSouth's benchmarks may be appropriate if total flow through is being measured, but if only orders designed to flow through as BellSouth currently proposes are counted then the benchmark should be a strict 98%. CLECs propose that both total and achieved/designed flow through performance should be measured.

² See Appendix H of the New York Inter-Carrier Service Quality Guidelines which sets forth a schedule of activities required to improve flow-through.

OP-4 Percent Rejected Service Requests OP-5. Reject Interval	Business Rules: BellSouth must identify all errors in orders in parallel, rather than catching and sending back each error one at a time. BellSouth's current serial process of rejecting orders extends the time for CLECs finally getting an order accepted. With BellSouth's long intervals for partially mechanized orders, repeated rejects can easily push out the due date for an order beyond the customer's toleration level. With numerous business rule changes and system update changes to learn, CLECs are apt to make mistakes. For them to quickly learn new rules a rapid rejection response catching all errors at once can speed up the CLEC's learning to avoid such errors in the future. Business Rules: BellSouth's business rules and formula should be changed to require BellSouth to calculate this measure as follows. The measured interval should end upon delivery by BellSouth of a response to the CLEC interface. BellSouth should measure the entire interval up to the point that it returns the rejected LSR to the CLEC. BellSouth should be accountable for the time in which the rejection is in its possession. The Texas plan states as the end of its interval "the time the reject notice is provided to EDI (or LEX) and is available to the CLEC."
	BellSouth's SQM indicates that it uses the date/time stamp in LEO for mechanized orders. CLECs request that it be required to use the date/time stamp from the interface (LENs/TAG/EDI) as it does for the beginning of the interval. There is no justification for stopping short of delivery to the CLEC. For non-mechanized orders, BellSouth indicates that it is using LON, its order tracking system for non-mechanized orders. Again, BellSouth provides no justification and the CLECs request that BellSouth be required to use the actual stop time from the fax server as it uses the date/time stamp from the fax for the receipt of the order.
	Further, when a CLEC uses multiple OSS interfaces the reject interval should be measured for each one. Different interfaces can produce different rejection intervals, and disaggregated monitoring of such differences are needed.
	Standard: BellSouth's intervals for partially mechanized orders are too long. Such rejections should be received in 5 hours not 48. Totally manual orders may have a longer, 24 hour, intervals. These intervals should include trunks. BellSouth's proposed trunk rejection intervals—4 days—are too long to wait to learn that its order had not even been initiated yet.
OP-6. Firm Order Confirmation Timeliness	Business Rules: BellSouth's business rules and formula should be changed to require BellSouth to calculate this measure as follows: The measured interval should end upon delivery by BellSouth of a response to the CLEC interface. BellSouth should be accountable for the time in which the FOC is in its possession, and should be required to measure its performance as described in the Texas performance measures plan, which states "the end date and time is recorded by (both LEX and) EDI and reflect the actual date and time the FOC is available to

the CLEC."

BellSouth's SQM indicates that it uses the date/time stamp in LEO for mechanized orders. CLECs request that it be required to use the date/time stamp from the interface (LENs/TAG/EDI) as it does for the beginning of the interval. There is no justification for stopping short of delivery to the CLEC. For non-mechanized orders, BellSouth indicates that it is using LON, its order tracking system for non-mechanized orders. Again, BellSouth provides no justification and the CLECs request that BellSouth be required to use the actual stop time from the fax server as it uses the date/time stamp from the fax for the receipt of the order.

Also, if CLECs order inbound BellSouth to CLEC trunks through ASRs, the confirmation of those ASRs should be included in this metric. CLECs also have proposed a separate measure to capture how quickly BellSouth responds to inbound trunk requests whether made through ASRs to which BellSouth sends a confirmation or by a Trunk Group Service Request to which BellSouth responds by sending an ASR. Either as part of the confirmation or a separate metric, measurement of the time it takes BellSouth to respond is critical to monitor. CLECs often wait long times for ILECs to send the ASRs when capacity is inadequate to carry calls from ILEC customers to CLEC customers. CLECs seek to have adequate inbound trunk capacity in place before adding new customers that would cause blocking for new and existing customers. Current trunking measurements do not capture this missing response time on inbound trunks.

BellSouth also should confirm facilities availability for all orders, not just trunks, before issuing a confirmation. If CLECs cannot depend on the due date given them then confirmations are useless. Too often in BellSouth territory CLECs receive confirmations immediately followed by notice that the order is being held for facilities. Facilities checks should be a standard requirement for all orders.

Disaggregation: BellSouth needs to disaggregate reporting by electronic, partially electronic and manual and by volume category if confirmation times differ by the size of the order. It also should disaggregate by any order activity (dispatch and non-dispatch, for example) that would be subject to different standard intervals for confirmations.

Standards: While BellSouth and CLECs agree the interval for confirmation of fully mechanized or flow through orders, BellSouth has proposed extremely long intervals for confirming partially mechanized and trunk orders. BellSouth should establish intervals of five hours for partially mechanized orders, similar to the intervals agreed to by SBC's Pacific Bell and Ameritech affiliates. SWBT has a five hour confirmation interval for all electronic orders. Manual orders, including trunk orders should be confirmed in 24 hours.

OP-7 Speed of Answer (Ordering Center) Disaggregation: The reports should be by each help desk center the CLECs call into as each may have different answering times. Benchmark: The CLEC recommend a response time of 95% in 20 seconds and 100% in 30 seconds. In no case should the standard be worse than the state's end user standard of 90% in 20 seconds for BellSouth's business and residence centers. These standards would require conversion of the metric to % in X seconds metric. If the Commission retains the measurement as an average, then the standards would need to be adjusted accordingly. CLECs need to get assistance from a representative quickly when calling with an ordering, provisioning or maintenance problem. Often a single call will be about a problem holding up numerous, not just a single order from being completed... OP-8 Mean Held Order Interval and Exclusions: BellSouth must not be allowed to exclude cancelled Distribution Intervals orders from these metrics. Often this will make performance look better than it is as CLECs cancel orders when it appears that BellSouth will not have the facilities to fill those orders for months. Further, customers may request cancellations themselves if the CLEC cannot tell them how long they have to wait for their order to be completed. If cancelled orders are excluded, the metric will not show the real story of how often CLEC orders are held for facilities or other reasons. Disaggregation: CLECs need to see how many orders are held by all products, including the various xDSL-capable loops with and without conditioning, line-sharing and splitting requests, etc. The results should also be disaggregated by the reason for the hold: "facilities," "load," and "other" at the very least.

OP-9 Average Jeopardy Notice Interval

Percentage of Orders Given Jeopardy Notices

Exclusions: Cancelled orders should not be excluded from the measure. CLECs need to see all the orders receiving jeopardies, particularly those that may lead to a cancellation if the delivery date is going to be missed.

BellSouth should be required to remove its exclusion of orders submitted to BellSouth through non-mechanized methods. The Commission should not allow BellSouth to discriminate against CLECs who place orders via non-mechanized means. Information regarding jeopardy situations for non-mechanized orders is just as critical to the CLEC and its customers as it is for mechanized orders. Further, in some cases, for example, xDSL services and enhanced extended loops (EELs), CLECs have no choice but to use non-mechanized ordering. Finally, BellSouth provides this information for other status measures such as FOCs and rejection notices. The Commission should require BellSouth to provide jeopardy notices, regardless of the means of ordering, and to report its performance accordingly.

Business Rules: The elapsed time should continue through weekends and holidays to capture the full length of the notice interval.

	CLECs need to have an equivalent opportunity to plan with customers for situations where an order appears to be in jeopardy as does BellSouth. Therefore, if any BellSouth representative can check on the status of the order, then CLECs need access to that same information sent through electronic or manual notices as requested. Calculation: The calculation should be based on the orders placed in jeopardy not just those orders sent jeopardy notices. To calculate the metric as proposed by BellSouth would understate any problem in CLECs not receiving notices on orders that are going to be missed.
OP 10 Parant Mina J Tare 11 c	D : D I D:
OP-10 Percent Missed Installation Appointments	Business Rules: Disconnect and From orders should be disaggregated and reported separately, rather than be excluded as BellSouth proposes. CLECs need to see that their requests to disconnect customers from service are timely as well. This will help avoid billing disputes with the terminated customer.
	This measure should be changed to include time, when time specific appointments are ordered by the CLEC. This measure should evaluate the level of service CLECs are paying for and to which BST is committing, i.e. if the appointment is time specific, the measurement should be time specific. The end time for xDSL orders should include successful continuity testing with the CLEC, particularly if the CLECs' proposed measure on acceptance testing is not adopted.
	For CLECs, the interval should end with the issuance of the completion notice. This is when the CLEC knows that the order is complete and fulfillment information can be sent to the customer and billing started. For BellSouth, the completion time is the time entered into BellSouth's OSS Systems or any other database from which representatives can obtain completion information.
	Disaggregation: CLECs need to see how many orders are held by all products, including the various xDSL-capable loops with and without conditioning, line-sharing and splitting requests, etc. BellSouth's July 2000 SQM seems to make some movement in this direction but only for Louisiana.
OP-11. Average Completion Interval (OCI) Interval Distribution	Business Rules: Disconnect and From as well as expedite orders should be disaggregated and reported separately, rather than be excluded as BellSouth proposes. These usually are very short intervals that can skew total results, but CLECs need to know the speed at which disconnect and expedite orders are being met.
	BellSouth should be required to modify its business rules and calculation to reflect the appropriate interval. The appropriate starting point for this measure is when BellSouth receives a valid LSR and the appropriate ending point is when a completion notice is sent to the CLEC. Both the New York and

Texas performance measures plans begins this interval with the date that a valid service request is received, not when the order is entered into the SOC system as proposed by BellSouth. This would eliminate what could be considerable time from the interval, particularly for non-flow through orders.

Disaggregation: Orders designated "pending facilities" should be a level of disaggregation, as well as the other proposed levels of disaggregation as described in my other exhibits. CLECs need to see if BellSouth's orders designated as pending facilities get completed at a faster pace than CLEC orders that were pending facilities.

CLECs need to see disaggregation by the various xDSL-capable loops, line-sharing and splitting requests, etc. As mentioned above, information on whether these products also include conditioning should be a level of disaggregation. CLECs need to see if they are receiving line conditioning on orders in a non-discriminatory fashion.

OP-12. Average Completion Notice Interval

Exclusions: BellSouth should be required to remove its exclusion of non-mechanized orders. The Commission should not allow BellSouth to discriminate against CLECs who place orders via non-mechanized means. Information regarding completion of service orders for non-mechanized orders is just as critical to the CLEC and its customers as it is for mechanized orders. Further, in some cases, for example, xDSL services and enhanced extended loops (EELs), CLECs have no choice but to use non-mechanized ordering. Finally, BellSouth provides this information for other status measures such as confirmation and rejection notices. The Commission should require BellSouth to provide completion notices, regardless of the means of ordering, and to report its performance accordingly.

Disconnections and From orders should be included in the measurement but reported separately to track performance,

BellSouth should be required to modify its business rules and calculation formula to indicate the measured interval ends upon delivery by BellSouth of a notice of completion to the CLEC interface (LENS, EDI, or TAG) or, if manual, the date/time stamp from the fax machine or server. BellSouth should be accountable for the time in which the completion information is in its possession.

BellSouth's current business rules have the ambiguous statement that "the end time is the time stamp the notice was submitted to the CLEC/BST system. CLECs request that the exact CLEC (not BST) system be identified as described above, so that, as in the Texas plan, the end interval measured is "the actual time (LEX) or *EDI received* the (SOC) notification and it is *available* to the client."

Benchmark: Completion notices need to be delivered promptly after actual physical work completion so CLECs know when

	they own new customers and must respond to their needs. If the retail analog selected operates at the interval stated by BellSouth
	in collaboratives (an hour to an hour and a half) that is
	acceptable but most completion notices need to be delivered at
	least one hour after work completion.
OP-13 Coordinated Customer Conversions	Exclusions: Cancelled orders should be included to capture all
Hot Cut Timeliness % within	the hot cut activity (even those attempts that prompt the
Interval and Average Interval	customer to cancel the order) in the metric.
	Business Rules: The CLECs request that this measurement be
	modified to include the entire hot cut interval or replaced with
	the early and late cuts measures requested by the CLECs in my direct testimony. It is important that not only the start time of
	the cut, but the entire interval, including acceptance testing with
	the CLEC be included in this measure. The loop should not be
	considered delivered until BellSouth and the CLEC have
	checked whether electrical continuity exists. Customers will not
	tolerate timely delivery of non-working loops.
	Disaggregation: Particularly with the advant of line had
	Disaggregation: Particularly with the advent of line sharing and splitting, disaggregation by all the types of digital and xDSL
	loops offered by BellSouth is critical to detect problem areas
	with hot cuts.
	Benchmarks: The interval for 1-10 lines should be 1 hour and
	for 11 or more lines 2 hours. BellSouth's interval represents a
	flawed calculation that does not depict the actual performance
	on each individual cut. In any event, BellSouth's 15 minutes
	per loop is excessive and even the CLEC's standard above is
	generous considering it should not take more than 5 minutes per loop for conversion.
	loop for conversion.
OP-14 Percent Provisioning Troubles	Business Rules: The metric should include all trouble reports
	arising from the same order. A customer may experience
	several service disruptions related to provisioning problems and
	each should count as a provisioning trouble.
	Disaggregation: Disaggregation by trouble type and service
	type will help pick up problems described in Access Integrated
	Network's testimony regarding coordination of D & N orders.
OP-15 Total Service Order Cycle Time	I did not analyze this measure.
(TSOCT) MR-1 Missed Repair Appointments	Evaluations: PallSouth and L.J.
Thissed repair Appointments	Exclusions: BellSouth may exclude customer provided or
	CLEC equipment troubles from the metric but it should report the number of exclusions monthly. This will enable the CLEC
	to monitor whether the exclusions seem high and perhaps were
	wrongly coded. In New York and Pennsylvania, such
	exclusions are reported separately by Verizon.
	Business Rules: The end time should be when the CLEC
	receives notice that the service is restored. This will enable the
	CLEC to notify BellSouth promptly if it disagrees that the
MD 2 Charter To 11 D	service has been restored.
MR-2 Customer Trouble Report Rate	See MR-1.
	Standard: The standard should be parity or no worse than the

	end user standard in N.C. Otherwise CLECs will not be able to
	meet the end user standard.
MR-3 Maintenance Average Duration	Exclusions: Customer and CLEC equipment troubles may be excluded but should be reported separately for the reasons stated in MR-1. BellSouth also should not exclude troubles that have lasted more than 10 days. There is no reason to exclude the longest or the shortest duration from this metric. Doing so only provides an inaccurate metric report.
	Business Rules: The trouble report should not be considered closed or service restored until the CLEC is given notice. "Restore" means to return to the normally expected operating parameters for the service and verification by the CLEC that the service has been restored. CLECs must be able to verify when informed that the trouble is closed that service has been restored to the customer. This will reduce the number of repeat trouble reports for services that were prematurely closed by BellSouth, but the CLEC customer's service is still impaired.
	Disaggregation: All maintenance metrics should be disaggregated by trouble type so CLECs can ascertain the specific types of problems (Central Office, Loop, etc.) where they may not be receiving parity service. This also protects BellSouth as dispatch troubles generally take longer than central office troubles and could make the metric look out of parity only because the CLEC had more dispatch troubles. So such disaggregation is particularly crucial for trouble duration.
MR-4 Percent Repeat Troubles in 30 Days	Business Rules: Customer and CLEC equipment trouble exclusions should be reported separately (See MR-1). Calculation: The denominator for the metric should be all repeat troubles received in the month, rather than all troubles closed. Using BellSouth's calculation could understate the problem for a month in which numerous troubles have not been closed by the end of the month.
	Standard: The standard should be parity or no worse than the state's end user standard. Otherwise the CLEC could not meet that standard.
MR-5 Out of Service (OOS) > 24 hrs.	CLECs have no changes for this metric.
MR-6 Average Answer Time (Repair Center)	Disaggregation: If there is more than one maintenance center, then the results of both centers should be shown separately to monitor each center's performance. Standard: 95% calls should be answered in 20 seconds, and 100% in 30 seconds to ensure prompt taking of trouble reports. In no case, should the answer time be worse than the end user requirement.
BL-1. Invoice Accuracy	Invoice accuracy should not be based on adjustment dollars, as BellSouth is in control of whether or not it grants an adjustment, and is therefore in control of the outcomes of this measurement. CLECs request that the Commission order the additional billing
BL-2. Mean Time to Deliver Invoices	measures in my direct testimony to address wholesale bill performance. This measure should be modified to be based on recent
2. Mount Time to Deliver invoices	This measure should be modified to be based on percent

	invoices received on time or the Commission de 11 1 1
	invoices received on time, or the Commission should adopt the
	Percent On-Time Mechanized Local Service Invoice Delivery measure recommended by the CLECs.
BL-3 Usage Data Delivery Accuracy	Calculation: CLECs believe the metric should reflect the
DE 5 Couge Data Delivery Accuracy	
	number of records not data packs delivered accurately. This is
	more in line with how accuracy has been calculated in the past
RI A Usage Data Daliyary Completeness	for usage data.
BL-4 Usage Data Delivery Completeness BL-5 Usage Data Delivery Timeliness	No changes for this measure.
BL-6 Mean Time to Deliver Usage	No changes for this measure.
BL-0 Mean Time to Denver Usage	Business Rule: CLECs believe that the measurement should
	begin with the generation of data by the CLEC retail customer
	or CLEC access customer (by the AMA recording equipment
	associated with the CLEC switch.). This will ensure that all
OD-1 OS/DA Speed to Answer	usage (local and associated access) are covered by this metric.
Performance/ Average Speed to Answer	Exclusions: BellSouth should not exclude call abandonment
Torronnanco riverage specu to Answer	times. The customers likely abandoned the call because of
	lengthy waits for a response and such time should be included in
	the metric calculation. If the Commission adopts the CLEC's
	proposed new measure on call abandonment then this issue is moot.
	moot.
	Standard: CLECs propose that 95% of calls be answered in 10
	seconds. The metric would have to be changed from an average
	measure to a Percent in 10 Seconds to suit this benchmark.
	Otherwise the benchmark needs to be restates as an acceptable
	average. In no case, should the standard be worse than the end
	user standard for answering such calls, as the CLECs need to
	meet the end user standard.
OD-2 OS/DA Speed to Answer	CLECs propose that OS/DA performance be measured with a
Performance/Percent Answered in X	single metric, but disaggregated for OS and DA.
Seconds	
E-1 E911 Timeliness	CLECs have no changes to these measures but want third-parity
E-2 E911 Accuracy	verification of BellSouth's claims that its E911 update processes
E-3 E911 Mean Interval	are parity by design.
TG-1 Trunk Group Performance -	Business Rules: CLECs are seeking the inclusion of 911 trunks
Aggregate	in this measure along with the OS/DA trunks that BellSouth has
	agreed to add.
	Disaggregation: BellSouth must disaggregate reporting by trunk
	type and design type. Combining trunks built to different
	blocking standards can hide blocking problems.
	Coloulations, BallSantl', COM
	Calculations: BellSouth's SQM appears to make some changes in the calculation of this metric that CLEC will be a larger
	in the calculation of this metric that CLECs will need to obtain
	further clarification. These clarifications may raise additional issues regarding this metric.
	bouco regarding this moure.
	Standards: BellSouth's 0.5% buffer is not acceptable. The
	measure should be based on parity in not exceeding the various
	blocking design levels.
	See TG-1.
TG-2 Trunk Group Performance – CLEC	1 Sec 10-1.
TG-2 Trunk Group Performance – CLEC Specific	See 10-1.
Specific TG-3 Trunk Group Service Report	No comment.
Specific	

	included in this action of DC
	included in this metric. CLECs require timely responses when
	seeking to augment existing collocations as well to initiating
	new collocation construction. BellSouth's SQM appears to be
	making some movement toward better collocation
	disaggregation, but it still is missing some key areas such as
	remote and adjunct collocations.
	Standards: CLECs agree to accept the intervals established in
	the Commission's separate collocation proceeding, including a
	definition of what CLEC changes would and would not stop the
	clock on measuring time intervals.
C-2. Collocation Average Arrangement	Business Rules: BellSouth should not be permitted to remove
Time	permit time. BellSouth should be accountable for the intervals
	for which it is responsible for having work completed.
	Removing permit time removes any incentive for BellSouth to
	conduct parallel work activities or work with government
	agencies for expeditious issuance of permits. Neither the
	performance plan of New York or Texas provides for such
	exclusions.
	CACIUSIOIIS.
	Further a collegation should not be considered and the
	Further, a collocation should not be considered complete until
	the CLEC accepts the collocation and associated cable
	assignment information is provided. This definition has been
	adopted in New York and other states in the Verizon region.
	Disappropriate Disappropriate 1 111 1 1 11
	Disaggregation: Disaggregation should be by each collocation
	type and by augment type (additions with intervals of 30 day, 45
	day, 60 day etc.). BellSouth's SQM appears to be making some
	movement toward better collocation disaggregation, but it still is
	missing some key areas such as remote and adjunct collocations
	Standard G GO 1
C 2 Collegation Power P. D. 15	Standards: See CO-1.
C-3 Collocation Percent Due Dates Missed	See CO-1 and CO-2.

LNP ISSUES SUBMITTED REGARDING BellSouth SQM

OP-9. LNP-Percent Rejected Service Request	Exclusions: BellSouth should be required to remove the exclusion of non-mechanized LSRs. It provides this information for other types of services and should not be allowed to discriminate.
OP-10. LNP-Reject Interval Distribution & Average Reject Internal	See OP-9 above.
O-11. LNP-Firm Order Confirmation Timeliness Interval Distribution & Firm Order confirmation Average	See OP-9. BellSouth's SQM does not specifically exclude, but it also does not specifically exclude non-mechanized LSRs.

ARGUMENTS FOR CLEC BUSINESS RULE CHANGES

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OP-10. LNPPercent Missed Installation	Exclusions: The measure should be modified to include non-
Appointments	mechanized orders. The Commission should not allow
	BellSouth to discriminate against CLECs who place orders via
	non-mechanized means. Further, while some loop ordering is
	available to LENS users, LNP is not. BellSouth's performance
	for services ordered via non-mechanized means is obviously just
	as critical to the CLEC and its customers as it is for mechanized
	orders. Further, it is inconceivable that BellSouth can defend
	the exclusion of orders from a provisioning measure, such as
	missed appointments, simply based on how the service was
	ordered.
	The Commission should require BellSouth to capture
	performance data for all its measures, regardless of the means of
	ordering, and to report its performance accordingly
1	·
OP-11. LNP-Average Disconnect	Business Dules, BallSouth should be required to not all.
Timeliness Interval & Disconnect	Business Rules: BellSouth should be required to actually perform the disconnect activity before completing the service
Timeliness Interval Distribution	order in SOCs.
1 moment mer var Distribution	order in soes.
	Exclusions: BellSouth should be required to include non-
	mechanized orders. See OP-9 above.
0P-12. LNP-Total Service Order Cycle	Business Rules: See OP-11 above.
Time	Business reales. See OI -11 above.
	Exclusions: See OP-9.

Exhibit KK-B

Revised	Commonto
measure	Comments
PO-1 Loop: Loop	Relicouth does not disaggregate by type of local and
Makeup – Response	BellSouth does not disaggregate by type of loop, and
Time - Manual	its proposed benchmark of 3 business days is more
	lenient than the CLEC proposed 72 hour interval.
PO-2: Loop Makeup -	BellSouth proposes a benchmark of 90% in 5 minutes
Response Time -	for now, with reassessment after 6 months. The
Electronic	Georgia Commission ordered a short-term benchmark
	of 90% within 5 minutes, and a benchmark after six
	months of 95% within 1 minute. At the least, this
*	approach should be adopted. Better yet, the
	benchmark of 95% within 1 minute should be adopted
	immediately.
	N D 110 11 111
	Moreover, BellSouth should be required to provide
	this information (and meet this standard) via EDI as
0.1	well as TAG.
O-1:	The following BellSouth business rule needs to be
Acknowledgement Massage Timeliness	clarified: "If more than one CLEC uses the same
Message Timeliness	ordering center, an Acknowledgement Message will
	be returned to the `Aggregator', however, BellSouth
	will not be able to determine which specific CLEC this
	message represented." Obtaining individual results is
	vital to CLECs. This issue is especially critical as this
	measure is a proposed Tier 1 measure in BellSouth's
•	remedy plan.
	BellSouth proposes a benchmark of 90% within 30
	minutes at first for EDI (moving to 95% within 30
	minutes after six months) and 95% within 30 minutes
	for TAG. The benchmark should be 98% within 15
	minutes for both EDI and TAG immediately. The
	CLEC intervals are generous in that the
	acknowledgement response is part of the transmission
	"handshake" and should normally be returned in seconds from receipt of an order.
O-3 to O-6: Flow-	Total flow-through and flow-through for orders
Through Measures	designed to flow through should be measured
iniough modeures	separately.
	Soparatory.
	For orders designed to flow through, the benchmark
	for O-3 should be 98%.
O-8: Reject Interval	BellSouth's proposed benchmarks remain inadequate
o. Rojoci interval	for partially mechanized and non-mechanized orders.
	101 partially incomanized and non-incomanized orders.

Exhibit KK-B Additional Proposed Business Rule Changes

O-9: Firm Order Confirmation Timeliness	Benchmarks should be at least 95% in 5 hours for partially mechanized orders and 24 hours for non-mechanized orders.
·	BellSouth should be required to do electronic facilities checks to ensure that the due dates delivered in FOCs can be relied upon.
O-10: Service Inquiry With LSR Firm Order Confirmation (FOC) Response Time Manual	The benchmark for this metric should combine the interval for Manual Loop Qualification with the appropriate FOC interval. At most, the benchmark should be 95% in 3 days for electronic orders and 4 days for manual orders.
O-11: Firm Order Confirmation and Reject Response Completeness	BellSouth should include partially and non-mechanized orders.
O-12: Speed of Answer in Ordering Center	This metric should not be diagnostic. The benchmark should be 95% in 20 seconds and 100% in 30 seconds.
O-13: LNP-Percent Rejected Service Requests	BellSouth has added manual LNP orders to its metric, which resolves one of the outstanding issues.
O-14: LNP-Reject Interval Distribution & Average Reject Interval	BellSouth has added manual LNP orders to its metric, which resolves one of the outstanding issues.
0-15: LNP – Firm Order Confirmation Timeliness Interval Distribution & Firm Order Confirmation Average Interval	Non-mechanized should be developed quickly and CLECs' proposed intervals for FOCs should be applied.
P-4: Average Completion Interval	BellSouth's proposed intervals for xDSL with and without conditioning are too long. Interval for conditioning should be no more than 5 days.
P-6A: Coordinated Customer Conversions Hot Cut Timeliness % Within Interval and Average Interval	Metric should be clarified to make clear that an early cut would be included as a missed appointment if cut was restarted within original window. Thirty minute buffer is excessive. Different intervals for IDLC are inappropriate and unjustified.
	The benchmark should be 95% completed within

Exhibit KK-B Additional Proposed Business Rule Changes

	outover window D-110 - 41 1
	cutover window. BellSouth only appears to be measuring whether the cut started on time, but does
	not measure whether it finished within the cutover window proposed by the CLECs.
P6-B: Coordinated	Only verified end user and CLEC caused reasons
Customer Conversions - Average Recovery	should be excluded. (i.e., the CLEC has to agree). Outages during and before the cut are included, not
Time	just those that can be reported after order completion
	through maintenance systems. BellSouth may
	separate out the later group of restorals and measure them as a disaggregation of Maintenance Average
	Duration with the same benchmark if it prefers.
	The benchmark should be 98% in 1 hour and 100% in
	2 hours. These outages were caused by BellSouth's
	cut-over errors and, thus, should be easy for it to diagnose and resolve.
P-6C: Coordinated	The benchmark should be 1%, not 5 % as BellSouth
Customer Conversions	proposes.
- % Provisioning Troubles Received	
Within 7 days of a	
completed Service Order	
Order	
P-7: Cooperative	BellSouth should report the number of exclusions
Acceptance Testing - %	(CLEC caused failures monthly) so CLECs can
of xDSL Loops Tested	determine whether their reports do not match up.
	The benchmark should be 99.5%.
M&R-3: Maintenance	BellSouth should clarify what it means by a "correct"
Average Duration	repair request and how a CLEC is informed that reporting of trouble is incorrect.
M&R-6: Average	
Time - Repair Centers	Benchmark should be the better of parity or at least the end user standard
M&R-7: Mean Time	Parity by design needs to be confirmed by KPMG. If
to Notify CLEC of Network Outages	confirmed, no metric is needed, just information on how to get the same notices at the same time as
	BellSouth.
B-2: Mean Time to	Bills rejected because of BellSouth formatting or

Exhibit KK-B Additional Proposed Business Rule Changes

Deliver Invoices	content errors should be included.
D-1: Average Database	Parity by design needs to be confirmed by KPMG.
Update Interval	
D-3: Percent NXXs	BellSouth's business rules should not define the
and LRNs Loaded by	interval by the completion of initial interconnection
LERG Effective Date	trunk groups when that happens after the LERG
	effective date. Otherwise, BellSouth could delay
	delivery of trunks to cover late LERG updates. The
	LERG effective date should be the end time in all
CD F A CI	cases.
CM-2: Change	Benchmark should be 95% in 5 days. For 30 days it
Management Notice	should be a shorter delay day interval of no more than
Average Delay Days	3 days.
CM-3: Timeliness of	BellSouth's proposed exclusion for dates that slip less
Documents Associated	than 30 days "for reasons outside BellSouth control" is
with Change	too broad.
	A Five day interval for documentation changes is too
	short for CLECs to be able to implement changes.
	CLECs recommend 30 days for documentation
	changes, unless it is for error correction, which should
	be provided within the five day timeframe. Further, if
	the documentation is associated with software
CM 4. Change	changes, 90 days or more is needed for major releases.
CM-4: Change Management	Benchmark should be 98% in 5 days.
Documentation	
Average Delay Days	
CM-5: Notification of	BellSouth should explain how it verifies outage and
CLEC Interface	the interval between first notice of outage and
Outages	verification. If this interval is long, the notice could be
	delayed and still appear to be on time because of
	"verification" condition.

Report/Measurement:

Timeliness of Response to Requests for BellSouth-to-CLEC Trunks

Mean Time to Provide Response

% Within 7 Days

% Negative Responses

Definition:

Measures the time it takes for BST to provide the CLEC with a firm due date for inbound trunks.

Exclusions:

CLEC cancelled orders

Business Rules:

Time begins with date the CLEC sends a complete ASR or Trunk Group Sizing Request via email or fax. The interval ends with the date the ILEC sends a FOC in response to a complete ASR or sends an ASR in response to a TGSR. Any queries regarding CLEC transmission should occur within five days. A query or a negative response to request. Neither queries or negative responses should stop the clock for this metric if (1) the query is invalid and CLEC request included all clearly required information and (2) the existing inbound trunks are operating at least at a 50% utilization level. BST will count the percent of requests receiving negative responses by reason (lack of facilities, need questioned, etc.).

Calculation:

Mean: (Date FOC/ASR returned – Date ASR/TGSR)/Number of Requests in Reporting Period % On Time: (Number of FOCs/ASRs sent in 7 or less business days/all requests for inbound trunks in reporting period) x 100.

% Negative: (Number of requests denied/Total Requests Submitted in Reporting Period) x 100

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate

Level of Disaggregation:

- Company
- Affiliate(s)
- CLEC Specific
- CLEC Aggregate
- Interface Type (fax, email, ASR)
- Negative Response Reason Type

Retail Analog/Benchmark:

If the ILEC does not deliver direct comparative results or the ILEC has not produced benchmark levels based upon a verifiable study of its own operation as agreed to with the CLEC, then result(s) related to the CLEC operation should be provided according to the following levels of performance in order to provide the CLEC with a meaningful opportunity to compete:

• 95% in 7 days

Report/Measurement:

Percent Service Order Accuracy

Definition:

Customers expect that their service provider will deliver precisely the service ordered and all the features specified. A service provider that is unreliable in fulfilling orders will not only generate ill-will with customers when errors are made, but will also incur higher costs to rework orders and to process customer complaints. This measurement monitors the accuracy of the provisioning work performed by the ILEC in response to CLEC orders. When the ILEC provides the comparable measure for its own operation, it is possible to know if provisioning work performed for CLECs is at least as accurate as that performed by the ILEC for its own retail local service operations.

Exclusions:

- Orders canceled by the CLEC
- Order Activities of the ILEC associated with internal or administrative use of local services.
- For resubmissions impact on due date measure, ILEC would not have to comply if tying final accepted order to original order is technically infeasible (but feasibility issue will be revised as systems are upgraded.)

Business Rules:

For CLEC Results:

• For each order completed during the reporting period, the original account profile and the order that the CLEC sent to the ILEC are compared to the services and features reflected upon the account profile as it existed following completion of the order by the ILEC. An order is "completed without error" if all service attribute and account detail changes (as determined by comparing the original and the post order completion account profile) completely and accurately reflect the activity specified on the original and any supplemental CLEC orders. "Total number of orders completed" refers to the total number of order completion notices sent to the CLEC by the ILEC for each reporting dimension identified below.

Calculation:

Percent Order Accuracy = [(Σ Orders Completed w/o Error)/(Σ Orders Completed)] x 100

Report Structure:

- CLEC Specific
- CLEC Aggregate

Level of Disaggregation:

- Company
- Interface Type
- Standard Product Categories
- Volume Category

Retail Analog/Benchmark:

 Completed CLEC Orders, By Reporting Dimension, Are Accurate No Less Than 99.0 Percent Of The Time.

Report/Measurement:

- Call Abandonment Rate - Ordering & Provisioning (similar for Maintenance)

Definition:

When CLECs experience operational problems dealing with ILEC processes or interfaces, prompt responses by ILEC support centers are required to ensure that the CLEC customers are not adversely affected. Any delay in responding to CLEC center requests for support (e.g., request for a vanity telephone number) will, in turn, adversely impact the CLEC retail customer who may be holding online with the CLEC customer service agent. This measure monitors the ILEC's handling of support calls from CLECs to determine if responsiveness is at parity with the service the ILEC provides its retail customers seeking assistance.

Exclusions:

None

Business Rules:

For CLEC Results:

The Call Abandonment Rate is based on the number of calls received by the call distribution system of the ILEC center for the reporting period, regardless of whether the call is actually transferred to ILEC personnel for processing. In addition, a count is accumulated of all calls that are subsequently terminated by the calling party or dropped due to equipment failure before transfer to the service agent for processing. The accumulated count of calls abandoned (terminated) is divided by the total count of calls received at the monitored center.

Call Abandonment Rate is monitored through the call management technology utilized to distribute calls to ILEC agents supporting CLEC activities (i.e. call receipt personnel staffing ILEC support centers intended for CLEC use). Results for each measure are to be provided separately for each center handing CLEC inquiries. If centers deployed by the ILEC support multiple functions (e.g. both maintenance and provisioning) then the results for each function supported should be separately reported.

Calculation:

Call Abandonment Rate = [(Count of Calls Terminated Before Answer During the Reporting Period)/(Count of All Calls Placed in Queue During the Reporting Period)] x 100

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate

Level of Disaggregation:

Support Center Type (i.e., Center supporting CLEC maintenance, Center supporting CLEC provisioning, ILEC Center supporting retail customer maintenance calls, ILEC Center supporting business office inquiries)

Retail Analog/Benchmark:

• Less than 1% are calls are abandoned from queue.

Report/Measurement:

Percent Completions/Attempts without Notice or with Less Than 24 Hours Notice.

Definition:

CLECs need adequate notice of order completion activities. They can be made to look disorganized by ILECs providing service without such advance notice: Customers and CLECs may even be unable to schedule necessary vendors on the scene to complete the installation, resulting in ILEC technicians being turned away and customer frustration with the CLEC. An ILEC could cause a great deal of harm to the CLEC competitively, yet look like it is providing parity or above parity service by the results other provisioning measures. A measurement capturing any non-parity in the occurrence of surprise or short-notice service deliveries also is critical to affording CLECs a reasonable opportunity to compete.

Exclusions:

 Completions or Attempts Without Notice or With less than 24-hours' notice delivery that the CLEC specifically requested.

Business Rules:

For CLEC Results:

Calculation would exclude any successful or unsuccessful service delivery that CLEC was informed of at least 24 hours in advance. ILEC may also exclude from calculation deliveries on less than 24 hours' notice that CLEC requested.

For ILEC Results:

The ILEC reports completions for which ILEC technicians delivered service to customers without giving sufficient advance notice to customers, sales or to internal account team to arrange for appropriate vendors to be on hand. Calculation of insufficient notice is similar to CLEC calculation (none or less than 24 hours). Similar surprise service deliveries are calculated for ILEC affiliate's account representatives.

Calculation:

Percent Completions or Attempts without Notice or with Less Than 24 Hours Notice = [(Completion Dispatches (Successful and Unsuccessful) With No FOC or FOC Received Within 24 Hours of Due Date)/(All Completions)] X 100

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate

Level of Disaggregation: (See Exhibit KK-2)

- Company
- Product Type
- MSA
- Dispatch in/Dispatch out/Non-dispatch

Retail Analog/Benchmark:

If the ILEC does not deliver direct comparative results or the ILEC has not produced benchmark levels based upon a verifiable study of its own operation as agreed to with the CLEC, then result(s) related to the CLEC operation should be provided according to the following levels of performance in order to provide the CLEC with a meaningful opportunity to compete:

 >98 Percent Of Completion And Completion Attempts Should Receive More Than 24 Hours Notice.

Report/Measurement:

Percent On Time Hot Cut Performance

Definition:

Customers must not be subjected to unscheduled service disruptions because of lengthy or uncoordinated cutovers of loops with interim or permanent number portability or the provision of any other UNEs that require disconnection and reconnection of a customer.

Exclusions:

- •
- Cancelled orders
- CLEC caused delays

Business Rules:

The start time for this measure is the frame due time (FDT) indicated on the Firm Order Confirmation. The end time is the when the CLEC is notified by phone that the hot cut is complete. Orders disconnected early are considered not met.

Calculation:

Percent On Time Hot Cuts = [(Customer Conversions completed within commitment window)/(All Customer Conversions Completed During Reporting Period)] x 100

Report Structure:

- CLEC Specific
- CLEC Aggregate
- _

Level of Disaggregation: (See Exhibit KK-2)

- Company
- Type of Loop or UNE Combination Cutover and Type of NP involved (i.e. ILNP, PNP or ILNP-to-PNP conversion).
- MSA
- Volume Category Dispatch in/Dispatch out/Non-dispatch

/Benchmark:

- :
 - 95% of coordinated cutovers completed within the following window
 - 1-10 lines 1 hour
 - 10 to 20 lines 2 hours
 - more than 20 lines negotiated.
 - If an order is cut more than 15 minutes prior to frame due time, it is not met.

Report/Measurement:

Percent of Orders Cancelled or Supplemented at the Request of the ILEC

Definition:

Prior to or during the cutover, the ILEC may encounter internal problems with its network which make it impossible to perform the cutover at the agreed upon time. This results in significant inconvenience to the customer. As a result, the percent of orders that are cancelled or supped by the CLEC at the request ILEC must be measured. This measurement must be expressed as a fraction to understand both the number and the percent of times that the order must be supped at the ILEC Request.

Exclusions:

None

Business Rules:

For CLEC Results:

The percent of orders that are supplemented or cancelled due to a jeopardy and network problems attributable to the ILEC. The ILEC will track the number of orders that they request to be supplemented or changed. The total number of supplements and cancels from the CLEC will also be tracked. The ratio will be calculated by dividing the number of orders supplemented or cancelled at the request of the ILEC divided by the total supplements or cancels by the CLEC. For this formula, the resulting ratio will be expressed as a percentage.

For ILEC Results:

ILECs would use retail residential or business POTS outside move activity as an analog. An outside move occurs when a customer, with existing service, moves from one premises to another within the same central office area without disconnecting and reconnecting service. With inside moves the customer keeps their own phone number. Although an outside move involves disconnecting an existing loop from an operating port and reconnecting a different loop (within the same office) to that same port, the work involved is very similar (i.e. coordinated re-termination).

Calculation:

Percent of Orders Cancelled or Supplemented at the Request of the ILEC = [(Number of Orders Cancelled or Supplemented at the Request of the ILEC During Reporting Period)/(Number of Cancels and Supplements During the Reporting Period)] x 100

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate

Level of Disaggregation: (See Exhibit KK-2)

- Company
- Product Type
- MSA
- Volume Category
- Dispatch in/Dispatch out/Non-dispatch

Retail Analog/Benchmark:

If the ILEC does not deliver direct comparative results or the ILEC has not produced benchmark levels based upon a verifiable study of its own operation as agreed to with the CLEC, then result(s) related to the CLEC operation should be provided according to the following levels of performance in order to provide the CLEC with a meaningful opportunity to compete:

<1.0 Percent Of Orders Supped Or Cancelled At The Request Of The ILEC.

Report/Measurement:

Percent of Coordinated Cuts Not Working as Initially Provisioned

Definition:

Customers may experience either a full or partial loss of service due to defective ILEC facilities where the CLEC is reusing the customer's existing loop, or due to the switching platform not being properly set up with the 10 Digit / 6 Digit trigger being applied. To ensure that the CLEC's customers are not disproportionately losing dial tone, the percent of ILEC caused service interruptions outside of the initial customer cutover must be measured.

Exclusions:

• Cut-overs where service disruption is caused due to end-user or CLEC reasons

Business Rules:

For CLEC Results:

The ILEC will track the number of Coordinated Cuts that are not working as initially provisioned by the number of provisioning troubles by the CLEC during the cutover process that are ultimately attributable to the ILEC. The measurement will be calculated by dividing the number of troubles by the total number of Coordinated Cuts provisioned for the CLEC during the reporting period.

Calculation:

Percent of Coordinated Cuts Not Working as Initially Provisioned = [(Number of Troubles Attributable to the ILEC on Initial Customer Cutover)/(Number of Coordinated Cuts Provisioned During The Reporting Period)] X 100

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate

Level of Disaggregation: (See Exhibit KK-Dissag

- Company
- Type of Loop or UNE Combination Cutover and Type of NP involved (i.e. ILNP, PNP or ILNP-to-PNP conversion).
- MSA
- Volume Category
- Dispatch in/Dispatch out/Non-dispatch

Retail Analog/Benchmark:

• <1 Percent Of All Coordinated Cuts Not Working As Initially Provisioned.

Report/Measurement:

Average Recovery Time

Definition:

Customers do not expect lengthy service outages due to problems experienced during the coordinated cut process. If problems do occur, the ILEC should work to minimize the customer outage. If a problem is found and can be isolated to the ILEC side of the network, the time between notification and resolution by the ILEC must me measured to ensure that CLEC customers do not experience unjustifiably lengthy service outages.

Exclusions:

Cut-overs where service disruption is caused due to end-user or CLEC reasons

Business Rules:

For CLEC Results:

When there is a problem during the porting process, the ILEC will track the average duration of each service outage or trouble. The duration time is defined as the time from the initial trouble notification until the trouble has been restored and an index number issued by the CLEC. For each trouble, the ILEC will track the duration of the trouble. The sum of all time associated with the troubles will be divided by the number of troubles. Average recovery time does not include time restoring a customer to the ILEC.

Calculation:

Average Recovery Time = $\Sigma\{[(\text{Date \& Time That Provisioning Trouble is Closed By CLEC})-(\text{Date \& Time Initial Provisioning Trouble is Opened With ILEC})]/(Number of Troubles Referred to the ILEC)\}$

Report Structure:

- CLEC Specific
- CLEC Aggregate
- •

Level of Disaggregation: (See KK Disagg)

- Company
- Type of Loop or UNE Combination Cutover and Type of NP involved (i.e. ILNP, PNP or ILNP-to-PNP conversion).
- MSA
- Volume Category
- Dispatch in/Dispatch out/Non-dispatch

Retail Analog/Benchmark:

• 98.0 Percent Of Customer Recoveries (Troubles During The Porting Process) Resolved Within 1 Hour And 100 Percent Within 2 Hours.

Report/Measurement:

Percent Successful xDSL Loops Cooperatively Tested

Definition:

The percent of xDSL loops tested that pass the tests.

Exclusions:

None.

Business Rules:

When a BellSouth technician finishes delivering an xDSL loop at the customer premise, he is to call a toll free number to the CLEC's testing center. The tech and the CLEC representative at the center then test the line. As an example of the type of testing performed, the testing center may ask the tech to put a short on the line, so that the center can run a test to see if it can identify the short.

Calculations:

Percent Successful xDSL Cooperative Service Testing on First Attempt = [(Number of xDSL Loops Functional on First Test)/(Number of xDSL Loops Tested During Reporting Period)] x 100

Percent Successful xDSL Cooperative Service Testing on Second Attempt = [(Number of xDSL Loops Functional on Second Test)/(Number of xDSL Loops Tested During Reporting Period)] x 100

Percent Successful xDSL Cooperative Service Testing on Third Attempt = [(Number of xDSL Loops Functional on all subsequent attempts)/(Number of xDSL Loops Tested During Reporting Period)] x 100

Report Structure:

CLEC Specific

Disaggregation:

Company

Type of Loop

MSA

Retail Analog/Benchmark:

99.5% of loops should pass on the first series of tests.

Report/Measurement:

Percent Completion of Timely Loop Modification/De-Conditioning on xDSL loops:

Definition:

Some xDSL Loops Require Loop Modification/De-Conditioning to support xDSL services, including the removal of load coils, removal of excessive bridged tap, and removal of repeaters.

Exclusions:

Requests cancelled by ALEC,

Business Rules:

Calculations:

[(Number of xDSL Loops on Which Loop Modification/De-Conditioning was Completed within established interval)/(Number of xDSL Loops On Which Loop Modification/De-Conditioning Is Requested)]

Report Structure:

- CLEC Specific
- Specific as to the type of loop tested

Level of Disaggregation:

- Company
- MSA
- Type of loop (See Exhibit KK-2)

Retail Analog/Benchmark:

95% within 5 business days

Report/Measurement:

Percent Billing Errors Corrected in X Days

Definition:

Measures the timely correction of DUF errors and timely carrier bill adjustments.

Exclusions:

Adjustments disputed by ILEC (but must be reported separately)

Business Rules:

- This measurement applies to the daily usage feed and carrier wholesale bill adjustments.
- Performance for the DUF measurement is measured at two levels:
- Severity 1 Bill Affecting where X = 24 hours with a maximum of 5 business days to correct error
- Severity 2 Non-Bill Affecting where X = 3 business days with a maximum of 10 business days to correct error
- Elapsed time is measured in business days/hours. Clock starts when ILEC receives the CLEC's query or request for an adjustment (whether in electronic, written or voice form) and the clock stops when the CLEC receives the correct usage record from the ILEC.
- The ILEC shall send correct usage record within X days/hours of receipt of a query.
- The ILEC will adjust bill within X days (generally next CLEC bill unless adjustment request received after middle of the month)..
- Only usage records fully corrected to the CLEC's specifications will be considered timely.
- Excluded situations:
- CLEC may agree to exclude adjustments disputed by ILEC from metric. If ILEC does not wish to
 pursue mutual agreement on such exclusion, ILEC must report separately the number of queries in
 dispute at end of the month as separate sub-metric

Calculation:

Percent Billing Errors Corrected in X Days = Σ [(Number of ILEC Responses in X Days/Hours) / (Total Number of Queries in Reporting Period)] x 100

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate
- BST Affiliates

Level of Disaggregation:

- Company
- Bill Type (DUF, Carrier Wholesale Bill)
- Severity Type

Retail Analog/Benchmark:

If the ILEC does not deliver direct comparative results or the ILEC has not produced benchmark levels based upon a verifiable study of its own operation as agreed to with the CLEC, then result(s) related to the CLEC operation should be provided according to the following levels of performance in order to provide the CLEC with a meaningful opportunity to compete:

DUF:

- Severity 1 = 90% corrected in 24 hours and 100% in 5 business days
- Severity 2 = 90% corrected in 3 business days and 100% in 10 business days

Carrier Wholesale Bill

• 100%l corrected within 45 Days.

Report/Measurement:

Percent Response Commitments Met (On-Time)

Definition:

This measures whether the ILEC has kept commitment in contracts, business rules or provided on the initial phone for a substantive answer to a CLEC question or final resolution of the CLEC's problem. Different intervals may be appropriate based on the severity of the issue with problems stopping the CLECs ability to access pre-order and ordering systems or address a severe customer problem (i.e thousands of missing orders, confirmations or completions...

Exclusions:

None

Business Rules:

ILEC must report on whether or not time committed to CLEC in contracts, separate agreements or at time of call are being kept by ILEC's support centers. For instance, if contract requires a response to a billing inquiry in 24 hours, then on-time responses would be those received within 24 hours after the CLEC places a query to the appropriate point of contact and compared to all the responses to billing queries due that reporting period. If an ILEC account representative promises a response in X amount of time, the metric would address whether that commitment was met compared with all the other committed answers due that month. The measurement would be equivalent to an Estimated Time to Repair or Repair Appointment Met metric applied to non-maintenance types of problems. Missed commitments are those days/hours between the time the response was due and the time the response was actually received. For ILEC retail measurement, time to respond to end user bill questions and other business office queries would be measured.

- All queries answered while the CLEC or ILEC retail customer is on the phone will be considered on time for this metric.
- Responses do not necessarily have to resolve issue but must provide additional information on the status of resolving the query. Any new response commitment provided during the partial response must be measured for on-time performance as well and will be counted as a new commitment.
- If CLEC poses more than one question on same call, ILEC may provide different response commitments for each query and measure each query separately.
- CLEC and ILEC may devise a priority rating system for measurement by which the CLEC will identify the type of query upon reaching a representative at the CLEC center and the type of response interval required for such a query. (i.e., questions regarding problems with an OSS gateway blocking order placement or pre-order queries may receive a higher priority than a question to explain a business rule that is not impeding order activity.)
- If ILEC is uncertain about whether response qualified as meeting the commitment interval, ILEC may seek CLEC agreement that response commitment has been met. Responses that no action has been taken yet on a query do not count as timely.

If a question is posed to the wrong center, the center receiving the query will direct the CLEC immediately to the appropriate center to respond to the question Otherwise start time begins with initial call..

Calculation:

Percent Response Commitments Met = Σ [(Number of Response Commitments Met) / (Number of Responses Due in Reporting Period)] x 100

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate
- BST Affiliate

Level of Disaggregation:

- Company (If dedicated representatives assigned to specific CLECs)
- Each CLEC Help Desk/Support Center (PreOrder, Ordering, Billing, etc.)
- Severity Type

Retail Analog/Benchmark:

- Billing = 100% in 24 hours of request for information
- Pre-Ordering/Ordering Help Desk = 98% within response commitment provided by ILEC
- Other = 95% within response commitment provided by ILEC
- 100% within 3 business days.

Report/Measurement:

Percent Software Certification Failures

Software Problem Resolution Timeliness and Average Delay Days.

Definition:

The first metric measures whether ILEC goes into production with software change that still leads to ILEC-software causing failures to CLEC test deck. The second measures the time it takes the ILEC to fix software problems its changes have caused. Third metric captures how long it takes to repair problems once the resolution standard is passed.

Exclusions:

• CLEC caused software failures (with notification and agreement from CLEC.)

Business Rules:

- ILEC test deck may either represent regression testing of a new software release or progression testing of software being released for the first time. A regression test deck is a collection of test scenarios designed to verify that functionality in a software release that was available in a previous release continues to work as prescribed. A progression test deck is a collection of test scenarios designed to verify that functionality in a software release that is being introduced for the first time (or is being removed) works as prescribed.
- Test scenario is a description of a business event and the systems transactions performed to accomplish the business event. Test scenarios also include pre-conditions, input date and expected results.
- During a 30 day period following release to production, ILEC will track the number of changes required as a result of CLEC experiencing malfunctions during the execution of transactions directly related to the pre-defined conditions in the test desk.
- A transaction is defined as failed if the request cannot be submitted or processed or results in incorrect or improperly formatted data.
- Software validation procedures, test deck scenarios and error correction standards are to be agreed to by CLEC and the ILEC, with this metric monitoring adherence to that agreement.
- ILEC may exclude any CLEC malfunctions if both parties agree that malfunctions were CLEC's fault. If parties cannot agree on fault, then ILEC must report the number of malfunction incidents in dispute.
- Problem resolution timeliness will reflect the percentage of preorder and order transaction rejections
 resolved within the timeframe agreed to by CLEC and the ILEC for both errors with and without
 work-around.
- Problem resolution time will start being measured from time problem reported to help desk to time CLEC concurs that problem no longer exists as confirmed on resolution notice call from the ILEC's help desk.

Calculation:

Software Certification Failures = Σ [(Number of Test Transactions in Test Deck – Count of Changes Required Due to CLECs Experiencing Malfunctions) / (Number of Test Transactions in Test Deck)] x 100

Software Problems Resolved On-Time = Σ [Number of Times Problem Resolved on Time / Number of Problems Resolved] x 100

Average Delay Hours/Days for Software Problem = Σ [(Date and Time Problem Resolution Confirmed by CLEC –Date and Time Problem Resolution Due) / (Total Number of Problems Resolved)]

Report Structure:

- CLEC Specific
- CLEC Aggregate
- BST Aggregate
- BST Affiliates

Level of Disaggregation:

- Company
- Interface Type
- Severity Type (Work Around, No-Workaround)

Retail Analog/Benchmark:

If the ILEC does not deliver direct comparative results or the ILEC has not produced benchmark levels based upon a verifiable study of its own operation as agreed to with the CLEC, then result(s) related to the CLEC operation should be provided according to the following levels of performance in order to provide the CLEC with a meaningful opportunity to compete:

- No more than 0.1% of test deck transactions should result in CLEC problems
- Software errors with no work-around should be corrected in 24 hours.
- Software errors with work-arounds should be corrected in 72 hours
- Parity with ILEC affiliate on Delay Days or Standard of 100% in 48 for problems with no workaround and 100% within five days for problems with work-arounds..

KK-D

CLEC Proposed Disaggregation (Process Level)

Disaggregation

A. Pre-Order OSS Responsiveness

- 1. Feature Function Availability/Service Availability
- 2. Facility Availability Qualification of Loops for Advanced Digital Services
- 3. Street Address Validation
- 4. Appointment Scheduling
- 5. Customer Service Records
- 6. Telephone Number
- 7. Rejected or Failed Queries (regardless of type)
- 8. Timeouts (measured as a percent not an interval)
- 9. Any new query type in 4 to 6 weeks of production.

B. Maintenance & Repair OSS Responsiveness

- 1. Create (or confirm logging of) a Maintenance Request
- 2. Obtain Status
- 3. Obtain Test Results
- 4. Cancel Request
- 5. Rejected of Failed Queries (regardless of type)
- 6. Clearance Notification
- 7. Closure Notification
- 8. Any new Query type in 4-6 weeks of production.

C. Collocation

- 1. Physical Caged
- 2. Shared Caged
- 3. Cageless
- 4. Adjacent On-Site
- 5. Adjacent Off-Site
- 6. Augment to Physical (Disaggregated by standard interval—i.e. 90 day vs. 45 day augments).
- 7. Virtual
- 8. Augment to Virtual (Disaggregation by standard interval—i.e. 90 day vs. 45 augments).
- 9. Remote Terminal

D. Multi-Functional Disaggregation

- 1. Interface type—for preordering, ordering, billing and maintenance and repair OSS, for some metrics the specific electronic interface is required, for others the general interface type fully electronic or mechanized, partially electronic or mechanized and manual (fax) are all that is required.
- 2. Dispatch in, dispatch out, and non-dispatch—for provisioning and maintenance measures
- 3. Volume—for ordering, provisioning, and maintenance measures (a) 1-5 lines, (b) 6-14 lines, and (c) 15+ lines
- 4. Geographic --All measures should be disaggregated to a state level, if the data is available. Additionally, provisioning and maintenance measures should be disaggregated to the MSA level. MSA and Non-MSA areas where performance and geography is similar can be combined if BST shows this similarity.
- 5. By CLEC, BST, and all BST affiliates for all measures
- 6. Center—for OS/DA, ordering & maintenance service center measures

E. Billing

Disaggregation 1. Record Type (resale, interconnection, UNE) CABS and CRIS

	Disaggregation, Analogs and Benchmarks	
F. Product Level Disaggregation for (Ordering, Provisioning, and Maintenance & Repair)	Benchmark 95% within x Days unless otherwise noted for Order Completion Interval and Missed Appointments	Retail analog for other provisioning and maintenance and repair measures
1 Becold Besidence DOTC	1 Retail Analog	1 Retail Recidential
1: Nesold Nesidence (O.)	1. Actail Analog	2. Retail Business
3 Recale Decion		
	, , ,	4. Retail PBX
	, ,	
7. Resold PRI ISDN		
8. Resold DID Trunks	8. Retail Residential POTS	8. Retail Residential Analog
9. UNE Platform		9. Retail Residential POTS
1 2 2 1 3 d 1 3 d 1 - 1 - 1 - 1 - 1 d 1 d 1	respectively	טאָר וֹיִּהְיָּטִ טְּ
10. UNE CHAINEILEA DOT (DOT 100p +		
mumplexing)	٠,	
11. UNE DSC 12. TIME DS1	, .	
. –		
15. Unbundled ISDN BRI	16. Same as above	16. Retail Residential POTS
16. Unbundled ISDN PRI	17. Same as above	
_	18. Same as above	
٠.	19. Same as above	' '
	_	
<u> </u>	-	
22. Other Unbundled Loops		
23. Unbundled UDC/IDSL loop	24. 3, 7, and 10 days, for a ,b, and c, volumes	24. ISDN
. –	25. DS1	25. DS1
27. Two-Way Trunking or Inbound BST-to-CLEC		27. ILEC Trunks
•		
29. Line-splitting/High Frequency Spectrum UNE	29. 3, 3, 7, 10 days for a, b, and c, volumes	29. Retail POLS
32 Special Access to FFI s Conversion		

	Disaggregation, Analogs and Benchmarks	
F. Product Level Disaggregation for (Ordering,	Benchmark 95% within x Days unless	Retail analog for other provisioning and
Provisioning, and Maintenance & Repair)	otherwise noted for Order Completion Interval	maintenance and repair measures
	and Missed Appointments	
33. Projects	33. Retail Large Volume Equivalents	33. Retail Large Volume Equivalents

Metric	BST Disaggregation	CLEC Disaggregation	Total Number
OSS/PREORDER OSS-1 Average Response Time and Response Interval (Pre- Ordering/Ordering)	Address (RSAG) TN Reservation (ATLAS) Appointment Scheduling (DSAP) Customer Service Record (HAL/CRIS) Feature/Service Availability (P/SIMS, COFFI and OASIS)	Same Plus 6. Failed Queries (those generating an error message that can be used to distinguish from other queries) 7. Percent Time Outs	7 multiplied by CLEC Interface Types (TAG, LENS) = 14 (Add EDI interface as queries are built to it.)
OSS-2 Interface Availability (Pre- Ordering/Ordering)	1. TAG 2. LENS 3. DOE 4. SOCS 5. ATLAS 6. RSAG 7. DSAP 8. BOCRIS 9. SONGS 10. HAL 11. P/SIMS 12. LEO Mainframe 13. LEO Unix 14. LESOG 15. EDI (ROS, RNS are only used by BellSouth retail. Benchmark makes reporting uncecessary. DOE is used in Southern Bell states and SONGs in South Central Bell	Same plus 16. LNP Gateway 17. XDSL Gateway (CLECs assume that entire route of middleware and backend systems accessed through TAG, LENS and EDI interfaces are covered by system availability metric.)	16
OSS-3 Interface Availability Maintenance and Repair	states) 1. TAFI 2. ECTA (Backend and middleware of LMOS HOST, MARCH, SOCS, CRIS, PREDICTOR, LNP)	(CLECs assume that entire route of middleware and backend systems accessed through TAG, LENS and EDI interfaces are covered by system availability metric.)	2
OSS-4 Response Interval Maintenance and Repair	11 systems listed in reports	Create (or confirm logging of) a Maintenance Report; Obtain Status; Obtain Test Results; Cancel Request;	7 (fewer if BST has not yet built to CLEC proposed query types, multiplied by interface) x 2 interfaces (TAFI, ECTA) = 14

	r	District District	<u> </u>
		Rejected or Failed	
		Queries (regardless of	
		type);	
	1	Clearance Notification;	
		Closure Notification	
PO-1 Loop Make Up Response (Manual)	Loop Make Up	Same	1
PO-2 Loop Make Up	Loop Make UP	Same	1 (multiplied by EDI,
Response (Electronic)	Loop wake of	Same	LENs interfaces) = 2
OSS 102 Percent	NA	All weighted test deck	1
i	INA I	1 0	1
Software Certification		failures aggregated	
Failures		together	
OSS 103 Software	NA	Problems with Work-	2
Problem Resolution		Arounds;	
Timeliness		Problems without Work-	
		Arounds	
OSS 104 Software	NA	Problems with Work-	2
Problem Resolution		Arounds;	
Delay Hours/Days		Problems without Work-	
		Arounds	
MI Percent Response	NA	Each	3
Commitments Met on	ł	Ordering/Provisioning	
Time - Help Desk		/Systems Help Desk	
ORDERING	J.,		
O-1 Acknowledgement	1. EDI	Same	2
Message Timeliness	2. TAG	June	~
O-2 Acknowledgement	1. EDI	Same	2
Message Completeness	2. TAG	Same	-
O-3 Percent Flow		Same But: Instead of	5
	1. Residence (Resale)	1	3
Through Total	2. Business (Resale)	(Aggregated) UNE:	
	3. LNP	4 UNE-Platform	
	4. UNE	5. UNE Loops	1
O-4 Percent Flow	Residence (Resale)	Same but:	5
Through Designed	2. Business (Resale)	Instead of (Aggregated)	
l lineaght 2 oblighted	3. LNP	UNE:	
1	4. UNE	4. UNE-Platform	
	T. ONE	5. UNE Loops	
		J. OIAL LOOPS	
O-5 Percent Flow		This is supporting data,	
Through Error Analysis		not a performance report	
O-6 CLEC LSR		This is raw data not a	
Information		performance report	
O-7 Percent Rejected	21 Services	Same. But instead of	31
Service Request		UNE xDSL loop	
		1. Unbundled UNE-	
		derived ADSL	
		Loop	1
		2. Unbundled UNE-	
		l .	
		derived HDSL loop	
		3. UCL Loops Long	
		and Short	
		4. Other 2 wire xDSL	1
		loops	

		5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and higher Replace UNE ISDN with: 9. UNE ISDN PRI 10. UNE ISDN BRI Replace UNE Combos Other with: 11. Enhanced Extended Loop (Dispatch) 12. Special Access to EELs Migration	
		Replace Resale ISDN: 13. Resale ISDN PRI 14. Resale ISDN BRI 15. Resale DID trunks:	
O-8 Reject Interval	Fully Mechanized Partially Mechanized Non-Mechanized And 21 Product Types	Same. But instead of UNE xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and higher Replace UNE ISDN with: 9. UNE ISDN PRI 10. UNE ISDN BRI Replace UNE Combos Other with: 11. Enhanced Extended Loop (Dispatch) 12. Special Access to EELs Migration Replace Resale ISDN: 13. Resale ISDN PRI 14. Resale ISDN BRI	31 x 3 order types = 93

		15. Resale DID trunks	1-
		13. Result DID trulks	
		,	
1			
O-9 FOC Timeliness	1. Fully Mechanized	Same But:	31×3 order types = 93
	2. Partially	Instead of UNE xDSL	
	Mechanized 3. Non-Mechanized	loop: 1 <u>Unbundled UNE-</u>	
	3. Non-Mechanized	derived ADSL	
	Trunks	Loop	
	And 21 Product Types	2. <u>Unbundled UNE-</u>	•
		derived HDSL loop	
		3. UCL Loops Long	
		and Short	
		4. Other 2 wire xDSL	
		loops	
		5. Other 4 wire xDSL	
		loops.	
		6. <u>Line Splitting</u> Replace UNE Digital	
		Loop > DS1 with:	
		7. <u>UNE DS1</u>	
		8. UNE DS3 and	
		higher	
		Replace UNE ISDN	
		with:	
		9. <u>UNE ISDN PRI</u>	
		10. <u>UNE ISDN BRI</u>	
		Replace UNE Combos	
		Other with:	
		11. Enhanced Extended Loop (Dispatch)	
		12. Special Access to	
1		EELs Migration	
		Replace Resale ISDN:	
		13. Resale ISDN PRI	
		14. Resale ISDN BRI	
		15. Resale DID trunks	
O-10 Service Inquiry	1. xDSL (includes	Same but:	6
with LSR/FOC	UNE unbundled	Replace xDSL with:	
Response	ADSL, HDSL, and	0 IIl 11 1 IDID	
	UNE Unbundled	2. Unbundled UNE- derived ADSL Loop	
	Copper Loops) 2. Unbundled	3. Unbundled UNE-	
	Interoffice	derived HDSL loop	
	transport.	4. UCL Loops Long	
		and Short	
		5. Other 2 wire xDSL	
		loops	
		6. Other 4 wire xDSL	
		loops.	1

O 11 EOC/Painet	21 Products	Same But instead of	31 x 3 order types = 93
O-11 FOC/Reject	21 Products	UNE xDSL loop	31 x 3 order types = 93
Completeness	Fully Mechanized	1 - 1	
	Partially Mechanized	Unbundled UNE- derived ADSL	
	Non-mechanized		
		Loop	
		2. Unbundled UNE-	
		derived HDSL loop	
		3. UCL Loops Long	
		and Short	
		4. Other 2 wire xDSL	
		loops	
		5. Other 4 wire xDSL	
		loops.	
		6. Line Splitting	
		Replace UNE Digital	
		Loop > DS1 with:	
	:	7. UNE DS1	
		8. UNE DS3 and	
		higher	
		Replace UNE ISDN	
		with:	
		9. UNE ISDN PRI	
		10. UNE ISDN BRI	
		Replace UNE Combos	
		Other with:	
		11. Enhanced Extended	
		Loop (Dispatch)	
		16. Special Access to	
<u> </u>		EELs Migration	
		Replace Resale ISDN:	
	,	17. Resale ISDN PRI	
		18. Resale ISDN BRI	
		19. Resale DID trunks	
		1.	
O-12 Speed of Answer	CLEC Local Carrier	Same (unless BST has	3 (Varner testimony)
in Ordering Center	Service Center	other preorder, order,	
		system help desks	
		serving NC carriers)	
OP-113 Call	NA	CLEC Local Carrier	3 (Varner testimony)
Abandonment Rate	= :: =	Service Center (and any	`
		other help desk service	
		N.C. carriers)	
O-13 LNP- Percent	Stand Alone LNP	Same.	2
Rejected	UNE loop and LNP		
O-14 LNP – Reject	Stand Alone LNP	Same	2
Interval Distribution and	UNE loop and LNP	Carro	~
Average Reject Interval	OTTE TOOP AND ENT		
O-15 LNP – FOC	Stand Alone LNP	Same	2
Timeliness		Same	-
Distribution/FOC	UNE loop and LNP		
Average Interval	NI A	Inbound Trunks	1
OP-114 Mean Time to	NA		1
Provide Response to		requested with TGSR/	
Request for BST-to-		ASR(BST ACNA)	
CLEC trunks		1	<u> </u>

OP-115 Percent Responses to Requests for BST-to-CLEC Trunks Provided in 7 Days	NA	Inbound Trunks requested with TGSR/ ASR (BST ACNA)	1
OP-116 Percent Negative Responses for BST-to-CLEC trunks	NA	Inbound Trunks requested with TGSR/ASR(BST ACNA)	1
PROVISIONING: P-1 Mean Held Order Interval & Distribution	21 Products	Same But: Instead of UNE xDSL loop: 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and higher Replace UNE ISDN with: 9. UNE ISDN PRI 10. UNE ISDN BRI Replace UNE Combos Other with: 11. Enhanced Extended Loop (Dispatch) 12. Special Access to EELs Migration Replace Resale ISDN: 13. Resale ISDN PRI 14. Resale ISDN BRI 15. Add: Resold DID Trunks 16. Inbound BST-to- CLEC trunks.	32 x 3 geographic disaggregations = 96 (But BST should provide information to the Commission to determine the appropriate number of geographic disaggregations to capture regional differences: urban and rural and degree of competition—heavy or moderate.
P-2 Average Jeopardy Notice Interval & Percentage of Orders Given Jeopardy Notice	21 Products	See above. Plus Projects	33 x 3 geographic disaggregations = 99
P-3 Percent Missed Installation Appointments		See above. Plus Projects	33 x 3 geographic disaggregations = 99 Report CNA (Customer Not Ready) exclusions as diagnostic

P-4 Average Completion Interval (OCI) & Order Completion Interval Distribution		See above. Plus Projects	33 x 3 = 99 x 3 (Dispatch, Non- Dispatch, Software Change) =297 x 3 (Volume Category) = 891
P-5 Average Completion Notice Interval		See above. Plus Projects	33
OP-121 Percent Billing Completion Notices Sent Within Two Days of Work Completion		See above Plus Projects	33
P-6 Percent Completions/Attempts without Notice or <24 Hours Notice		 UNE loop-hot cuts UNE 2 wire xDSL UNE 4 wire xDSLUNE-P- dispatch 	4
P-7 CCC Interval P-7a CCC Hot Cut % Within Interval and Average Interval (CLEC on time metric includes OP-106 early and OP-107 late cuts)	NA	UNE-loop hot cut (two volume categories)	2 x 3 geographic disaggregations = 6
P-7b CCC-Average Recovery Time		UNE-loop hot cut	1
OP-111 and 112 Mean Time and Percent of Customers Restored to ILEC	NA	UNE-loop hot cut	1
P-7c Hot Cut Provisioning Troubles in 7 Days	Hot Cut	UNE-loop hot cut	1 x 3 geographic disaggregations = 3
OP-108 Percent Orders Cancelled or Supplemented at the Request of the ILEC	NA	Hot cuts	1
OP-109 Percent of Hot Cuts Not Working as Initially Provisioned.	NA	Hot cut loop	1
OP-118 Percent Successful xDSL Cooperative Service Testing	NA	2 wire xDSL 4 wire xDSL line sharing line splitting	4 x 3 geographic disaggregations = 12
P-8 Cooperative Acceptance Testing Percent xDSL Loops Tested	xDSL	2 wire xDSL 4 wire xDSL line sharing line splitting	4 x 3 geographic disaggregations = 12
OP-120 Percent Successful Completion of Modification/ Conditioning for xDSL Loops	NA	2 wire xDSL 4 wire xDSL line sharing line splitting	4 x 3 geographic disaggregations = 12
P-9 Percent Provisioning Troubles in 30 Days of	21	Same. But instead of UNE xDSL loop	33 x 3 geographic disaggregations = 99

0.101:			
Order Completion		1 11.1	
		1. Unbundled UNE-	
		derived ADSL	
	,	Loop	
		2. Unbundled UNE-	
	ı İ	derived HDSL loop	
		- 1	
	. 1	1	
		and Short	
		4. Other 2 wire xDSL	
		loops	
		5. Other 4 wire xDSL	
	j	loops.	
		6. Line Splitting	
		Replace UNE	
		Digital Loop > DS1	
		with:	
		7. UNE DS1	
		8. UNE DS3 and	
		higher	İ
		Replace UNE ISDN	
		, -	
		with:	
		9. UNE ISDN PRI	
	,	10. UNE ISDN BRI	
		Replace UNE Combos	
		Other with:	
		11. Enhanced Extended	
		Loop (Dispatch)	
		12. Special Access to	1
		EELs Migration	
		Replace Resale ISDN:	
		13. Resale ISDN PRI	
		14. Resale ISDN BRI	
		15. Add Resale DID	
		trunks	
		16. BST-to-CLEC	
		trunks	
		17. Projects.	
P-10 Total Service Order		Not requested by	0
Cycle Time		CLECs.	
OP-104 (O-11 in GA)	NA	Resale Residential	9
	INA	1	1
Service Order Accuracy		2. Resale Business	
		3. Resale ISDN-PRI	
		4. Resale Centrex	
		5. UNE- 2 wire voice	
1		loop	
	1	6. UNE-2 wire xDSL	
		loops	
		7. UNE-4-wire xDSL	
		loops	
		8. UNE-platform	
		9. UNE-other	
P-12 LNP-Percent Missed	Hot Cut with LNP	Hot Cut with LNP	2 x 3 geographic
1	Hot Cut without	I I Cut with Livi	disaggregations. = 6
Installation Appointments	Tioi Cui without	Stand Along T ND	disaggiogations 0
	1	Stand Alone LNP	
P-13 LNP-Average	LNP	LNP with Loop	2

Disconnect Timeliness Interval & Disconnect Timeliness Interval Distribution		Stand Alone LNP	
P-14 LNP-Total Service Order Cycle Time		Not requested by CLECs.	0
MAINTENANCE & RE	PAIR		
M&R-1 Missed Repair Appointments	21 products	Same. But instead of UNE xDSL loop 1. Unbundled UNE- derived ADSL	31 x 3 disposition codes (software change, dispatch in and dispatch out) x 3 geographic areas = 279
		Loop 2. Unbundled UNE-derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting 7. Replace UNE Digital Loop > DS1 with:	arcas = 217
M&R-2 Customer	21 Products	8. UNE DS1 9. UNE DS3 and higher Replace UNE ISDN with: 10. UNE ISDN PRI 11. UNE ISDN BRI Replace UNE Combos Other with: 12. Enhanced Extended Loop (Dispatch) 13. Special Access to EELs Migration Replace Resale ISDN: 14. Resale ISDN PRI 15. Resale ISDN BRI 16. Resale DID trunks Same. But instead of	31 x 3 geographic areas
M&R-2 Customer Trouble Report Rate	21 Products	Same. But instead of UNE xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital	= 93

,		F. 5.4	
		Loop > DS1 with:	
		7. UNE DS1	
		8. UNE DS3 and	
		higher	
		Replace UNE ISDN	
		with:	
		9. UNE ISDN PRI	
		10. UNE ISDN BRI	
		Replace UNE Combos	
		Other with:	
		11. Enhanced Extended	
		Loop (Dispatch)	
		12. Special Access to	
		EELs Migration	
		Replace Resale ISDN:	
		13. Resale ISDN PRI	
İ		14. Resale ISDN BRI	
		1	
Man and	01 Dec 4	15. Resale DID trunks	21 v 2 diamonition and
M&R-3 Maintenance	21 Products	Same. But instead of	31 x 3 disposition codes
Average Duration		UNE xDSL loop	(software change,
		1. Unbundled UNE-	dispatch in and dispatch
		derived ADSL	out) x 3 geographic
		Loop	areas = 279.
		2. Unbundled UNE-	
		derived HDSL loop	
,		3. UCL Loops Long	
		and Short	
		4. Other 2 wire xDSL	
		loops	
		5. Other 4 wire xDSL	
		loops.	
		6. Line Splitting	
		Replace UNE Digital	
		Loop > DS1 with:	
		7. UNE DS1	
		8. UNE DS3 and	
		higher	
		Replace UNE ISDN	
		with:	
		9. UNE ISDN PRI	
		10. UNE ISDN BRI	
		Replace UNE Combos	
		Other with:	
		11. Enhanced Extended	
		Loop (Dispatch)	
		12. Special Access to	
		EELs Migration	
		Replace Resale ISDN:	
		13. Resale ISDN PRI	
		1	
		14. Resale ISDN BRI	
110D 4D	15 1	1. Resale DID trunks	25 - 2 1
M&R-4 Percent Repeat	15 products	Same. But instead of	25 x 3 geographic areas
Troubles within 30 Days		UNE xDSL loop	= 75
		1. Unbundled UNE-	
		derived ADSL Loop	
1		2. Unbundled UNE-	

<u></u>		1 : 1775-07-1	
		derived HDSL loop	
,		3. UCL Loops Long and Short	
		4. Other 2 wire xDSL	
		loops 5. Other 4 wire xDSL	
			į
		loops.	
		6. Line Splitting Replace UNE Digital	
:		Loop > DS1 with:	
		7. UNE DS1	
		8. UNE DS3 and	
		higher	1
		Replace UNE ISDN	j
		with:	
		9. UNE ISDN PRI	
		10. UNE ISDN BRI	
		Replace UNE Combos	
		Other with:	
		11. Enhanced Extended	
		Loop (Dispatch)	
		12. Special Access to	
		EELs Migration	
		Replace Resale ISDN:	
		13. Resale ISDN PRI	
		14. Resale ISDN BRI	
		15. Resale DID trunks	
l .			
M&R-5 Out of Service	21 products	But instead of UNE	31x 3 geographic areas
M&R-5 Out of Service > 24 Hours	21 products	But instead of UNE xDSL loop	31x 3 geographic areas = 93
	21 products	xDSL loop 1. Unbundled UNE-	
	21 products	xDSL loop	
	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE-	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL	
!	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops	
!	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL	
!	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops.	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with:	
	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and higher	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and higher Replace UNE ISDN	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and higher Replace UNE ISDN with:	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and higher Replace UNE ISDN with: 9. UNE ISDN PRI	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and higher Replace UNE ISDN with: 9. UNE ISDN PRI 10. UNE ISDN BRI	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and higher Replace UNE ISDN with: 9. UNE ISDN PRI 10. UNE ISDN BRI Replace UNE Combos	
ł .	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and higher Replace UNE ISDN with: 9. UNE ISDN PRI 10. UNE ISDN BRI Replace UNE Combos Other with:	
!	21 products	xDSL loop 1. Unbundled UNE- derived ADSL Loop 2. Unbundled UNE- derived HDSL loop 3. UCL Loops Long and Short 4. Other 2 wire xDSL loops 5. Other 4 wire xDSL loops. 6. Line Splitting Replace UNE Digital Loop > DS1 with: 7. UNE DS1 8. UNE DS3 and higher Replace UNE ISDN with: 9. UNE ISDN PRI 10. UNE ISDN BRI Replace UNE Combos	

		12. Special Access to EELs Migration Replace Resale ISDN: 13. Resale ISDN PRI 14. Resale ISDN BRI 15. Add Resale DID trunks	
M&R-6 Average Answer Time-Repair Center	Regional Repair Center	Each Repair Center	3
M&R-7 Mean Time to Notify CLEC of Network Outage	All FCC Reportable Outages	Same	1
MR-101 Call Abandonment Rate (Maintenance) BILLING	Regional Repair Center	Regional Repair Center	3
B-1 Invoice Accuracy	Resale UNE Interconnection	Same	3
B-2 Mean Time to Deliver Invoices	Resale UNE Interconnection	Replace with: CRIS CABS	2
B-3 Usage Data Delivery Accuracy	Region	Resale UNE-P Interconnection	3
B-4 Usage Data Delivery Completeness	Region	CABs CRIS	2
B-5 Usage Data Delivery Timeliness	Region	CABs CRIS	2
B-6 Mean Time to Deliver Usage	Resale UNE Interconnection	CABs CRIS	2
B-7 Recurring Charge Completeness	Resale UNE Interconnection	CABs CRIS	2
B-8 Non-Recurring Charge Completeness	Resale UNE Interconneciton	CABs CRIS	2
B-105 Percent Billing Errors Correcting in X Days	NA	DUF Customer Bill Impacting Non-Customer Bill Impacting Invoice	3
	S AND DIRECTORY AS		
OS-1 Speed of Answer/Average Speed of Answer-Toll	One Center	One Center if there is only one	1
OS-2 Speed of Answer/Percent Answered in X Seconds	One Center	One Center is there is only 1	1
DA-1 Speed of Answer/Average Speed	One Center	One Center if there is only 1	1

			· · · · · · · · · · · · · · · · · · ·
of Answer-DA			
DA-2 Speed of Answer/	One Center	One Center if there is	1
Percent Answered		only 1	
within X Seconds			
DATABASE UPDATE I	NFORMATION		
D-1 Average Database	LIDB	Same	3
Update Interval;	DL		
	DA		
D-2 Percent Database	LIDB	Same	3
Update Accuracy	DL		
	DA		
D-3 Percent NXXs and		Same	1
LRNs Loaded by LERG			
Effective Date			
MI-102 Average Time	NA	By Directory Closing	
Allotted to Proof Listing			12 (Estimated closings
Updates Before			where there is
Publication			competitions)
E911			
E-1 Timeliness	E911	Same	1
E-2 Accuracy	E911	Same	1
E-3 Mean Interval	E911	Same	1
TRUNK GROUP PERF			
TGP-1 Trunk Group	None	DesignType:	3
Performance-Aggregate	Trone	Design1 ype.	
1 chomanec-Aggregate		2%	
		1%	
		0.5% blocking	
		0.3% blocking	
TGP-2 Trunk Group	NONE	See above	3
Performance-CLEC	NONE	See above] 3
Specific		1	
COLLOCATION	T 77 . 1 7 1		10 2
C-1 Collocation	Virtual Initial	Same but replace	8 x 3 geographic = 24
Average Response Time	Virtual Augment	Physical Caged	
	Physical Caged-Initial	Augment with:	
	Physical Caged-	Physical Caged 45-day	
	Augment	augment.	
	Physical Cageless –	Physical Caged 60-day	
	Initial	augment	
	Physical Cageless-	Remote	
	Augment		
C-2 Collocation	Virtual Initial	Same but replace	8 x 3 geographic = 24
Average Arrangement	Virtual Augment	Physical Caged	
Time	Physical Caged-Initial	Augment with:	
	Physical Caged-	Physical Caged 45-day	
	Augment	augment.	
	Physical Cageless –	Physical Caged 60-day	
•	Initial	augment	
	Physical Cageless-	And Remote	
	Augment		
C-3 Collocation Percent	See Above	Same plus	7 x 3 geographic = 21
Missed Due Dates	300710070	Remote	A D Boograpine - 21
CHANGE MANAGEM	FNT	Kemote	<u> </u>
	.,	Emergency	6
CM-1 Timeliness of	None	Emergency	10

Change Management Notices		Regulatory Requirement Industry Recommended Major Minor CLEC Initiated BST Initiated	
CM-2 Change Management Notice Average Delay Days	None	Same as above	6
CM-3 Timeliness of Documents Associated with Change	None	Same as above.	6
CM-4 Change Management Documentation Average Delay Days	None	Same as above.	6
CM-5 Notification of CLEC Interface Outages	EDI CSOTS LENS TAG ECTA TAFI	Same	6
CM-6 Percent ILEC vs.	NA	CLEC Initiated	2
CLEC Changes Made	 INESS REQUEST PROC	BST Initiated ESS	
BFR-1 Percentage of BFR/NBR Requests Processed Within 30 Business Days.	BFR	Same	1
BFR-2 Percentage of Quotes Provided for Authorized BFR/NBRs Processed in 10./30/60 Business Days	BFR	Same	1

TOTAL = 2778

	Mostire		Standard/Benchmark
	VANCED IN COLUMN TO THE COLUMN		
	Average Response Time and Response Interval (Pre-Ordering)	• •	Retail analogs by function.
· 7		 99.5 % availa 	99.5 % availability for all OSS interfaces.
ж.	Interface Availability (Maintenance & Repair)		99.5% availability for all OSS interfaces.
4.	Response Interval (Maintenance & Repair)		s by function.
۶.	Loop make-up manual	5. 95% within 72 hours	2 hours
9	Loop make-up electronic	5. 95% within 1 minute	minute
		1. 98% flow-thr	98% flow-through, with an improvement plan if BST's current methodology
		is not rejected	is not rejected by the Commission.
ij	Percent Flow-through Service Requests	98% of all M	98% of all Mechanized Acknowledgements Are Returned Within 15 Minutes
7	Order Acknowledgement Timeliness	of Receiving LSR	LSR
ж.	Order Acknowledgement Completeness	• •	Mechanized Acknowledgements Are Sent 100% of Time
4.	Percent Rejected Service Requests	4. Diagnostic	
5.	Reject Interval	•	95% or greater within: mechanized 1 hour, partially mechanized 5 hours,
9	Firm Order Commitment Timeliness	non-mechaniz	non-mechanized—24 hours
7.	Firm Order Commitment/Rejection Response Completeness	 95% or greate 	95% or greater within: mechanized 1 hour, partially mechanized 5 hours,
∞:	Speed of Answer in Ordering Center	•	non-mechanized—24 hours
6	Percent Order Accuracy	7. Firm Order C	Firm Order Commitments or Reject Responses are Returned on 100% of
10.			
11.	LNP Percent Rejected Service Requests		95% within 20 seconds, 100% within 30 seconds
12.			99% of Completed CLEC Orders Are Accurate
13.	LNP Firm Order Commitment Timeliness	10. 95% response in 7 days	in 7 days
14.	Call Abandonment Rate	Diagnostic	
		12. 95% or greate	95% or greater within: mechanized-1 hour, partially mechanized - 5 hours,
		non-mechanized -24 hours.	24 hours.
		 95% or great 	13. 95% or greater within: mechanized—1 hour, partially mechanized - 5 hours,
		non-mechanized -24 hours.	-24 hours.
		14. <1% of calls	<1% of calls are abandoned from queue.
<u> </u>	Mean Held Order Interval & Distribution Intervals	1. Retail Analog	
2.	Average Jeopardy Notice Interval & % of Orders Given Jeopardy	ŀ	

	Measure		Standard/Benchmark
	Notices	3.	Retail Analog
Э.	Percent Orders Completed On Time (or missed appointment)	4.	Benchmark or analog
4.	Average Completion Interval	'n.	Retail Analog
ĸ.	Average Completion Notice Interval	9	< 5 minutes per loop
9	Coordinated Customer Conversions	7.	95% within + or - 15 minutes of schedule start time
۲.	Hot cut timeliness with interval	∞:	Retail analog
∞:	% Provisioning Troubles w/i 30 days of Service Order Completion	9.	≥ 98 percent of completions and completion attempts should receive more
6	Percent Completions/Attempts without Notice or with Less Than 24		than 24 hours notice via a FOC
	Hours Notice	10.	95%% of coordinated cutovers complete no later than 1 hour past the
10.	% on time hot cuts		committed due date and time on FOC for 1-10 lines and no later than 2 hours
11.			for greater than 10 lines.
	ILEC	11.	< 1.0% Supped or Cancelled at Request of ILEC
12.	Percent of Hot Cuts Not Working as Initially Provisioned	12.	< 1.0% of All Coordinated Cuts Not Working as Initially Provisioned
13.	Average Recovery Time	13.	98% of Customer Recoveries Done Within 1 Hour/ 100% of Customer
14.	Mean Time to Restore Customer to the ILEC		Recoveries Done Within 2 Hours
15.	% Customer Restored to ILEC	14.	98% of Customers Restored to the ILEC Completed within 1 hour and
16.	% Cooperative Acceptance Testing		100% within 2 hours.
17.		15.	<1 per cent of all cuts restored to ILEC
~		16.	98% of lines should be tested
19	•	17.	99.5% of loops should pass on first series of tests
20.	LNP Disconnect Timeliness	18.	95% within 5 days
		10	Retail analog
		20.	95%<15 minutes
-	Control of the Contro	-	Datoil Anglon
-i (Custollier fround report rate	; ,	Notali Alialog
7	Maintenance Average Duration	i,	Ketail Analog
ω.	Percent Repeat Troubles w/i 30 days)	μi.	Retail Analog
4, 1	Average Answer Time - Kepair Centers	4. r	95% within 20 seconds, 100% within 30 seconds
<u>ن</u>	Mean Jeopardy Interval for Maintenance & Irouble Handling	ر ر	Ketail Analog
9	Percent Missed Repair Appointments	9 1	Retail Analogue
7.	Mean Time To Answer Calls(Repair Service Center)	7.	> 95% of calls, by center, are answered within 20 seconds, all calls within 30
			seconds.
	Usage Data Delivery Accuracy	1.	Retail Analog

L	Measure	Standard/Benchmark
9 K	liver Usage Corrected in	
4 v.	Usage Timeliness Recurring charge completeness	
6.	Non recurring charge completeness % on time mechanized invoice delivery	6. Retail analog for resale UNE 90% complete7. within 10 calendar days 98% of time
∞	Invoice accuracy	8. Retail analog
	Mean Time To Answer(OS/DA)	1. >90% of Calls Answered in 10 Seconds
7	E-911 Timeliness	1. Parity
ю. 4	E-911 Accuracy E-911 Mean Interval	2. Parity 3. Parity
-	Percent Call Completion (Trunking)	1. Dedicated trunk groups not to exceed blocking standard of B.01.
		Common Trunk Groups:
		Where CLEC/LD traffic share common ILEC trunks: No more than 1% of end
		offices may have more than 2% blockage a month based on Erlang B.01 scale.
		Where CLEC traffic traverses a separate common network from ILEC traffic: No more than 2% of end offices may have more than 2% blocking.
		1. 95% within 10 calendar days
<u> </u>	Collocation Average Response Time	
. i	Collocation Average Arrangement Time	calendar days virtual 60 calendar days; virtual augment 60, virtual augment
	Collocation % of Due Dates wissed	3. 0 misses of committed due date
-	1. Database Average Update Interval	
2, 0	Database Percent Update Accuracy	2. >99.99% Accurate
ำ	NINA and LKIN loaded by LEKG Ellective Date	5. 25% by LENG elieculve date
%	% on time response commitments	100% within 3 business days
Σ	Mean Time to notify CLEC of network outages	Parity
₽%	% on time notification of interface outages	97% in 15 minutes
-i	% Change Management Notices Sent on Time	1. 98% on time

	Measure	Standard/Benchmark
7	2. % Change Management Documentation Sent on Time	2. 98% on time
લ	Average Delay Days for Change Notices	3. No more than 5 days
4.	Average Delay Days for Documentation	4 No more than 5 days
۶.	LLEC vs CLEC Changes Made	5. Parity
	1. % Software Certification Failures	1. No more than 0.1% failures
7	2. % Software Problems Resolved on Time	2. With no workaround 24 hours/with workaround 72 hours