Exhibit No.:

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	High-Capacity Loops
Witness:	Anthony Giovannucci,
	Steven L. Grossmann
Sponsoring Party:	AT&T Communications of
	the Southwest, Inc., TCG
	Kansas City, Inc., and
	TCG St. Louis, Inc.
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AT&T COMMUNICATIONS OF THE SOUTHWEST, INC., TCG KANSAS CITY INC., AND TCG ST. LOUIS, INC.

REBUTTAL TESTIMONY

OF

ANTHONY GIOVANNUCCI AND STEVEN L. GROSSMANN

(NONPROPRIETARY VERSION)

TO-2004-0207

March 1, 2004

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1 I. INTRODUCTION AND PURPOSE OF TESTIMONY

2 Anthony Giovannucci

3 Q. PLEASE STATE YOUR NAME AND YOUR BUSINESS ADDRESS.

4 A. My name is Anthony J. Giovannucci. My business address is 429 Ridge Road,
5 Dayton, New Jersey.

6 Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?

A. I am a Division Manager with AT&T Network Engineering and Operations, the
organization within AT&T Corp. that provides local service to AT&T business
customers.

10 Q. WHAT ARE YOUR DUTIES AND RESPONSIBILITIES?

- A. In my current position I am responsible for a number of key areas of Outside
 Plant activity, including the development of an Outside Plant Plan ("OSP") of
- 13 record for capital deployment. I also oversee the negotiation and completion of
- 14 agreements controlling rights of way, franchises, and facilities builds (including
- 15 joint facilities). Additionally, I am responsible for the development and
- J / J/ 1 1
- 16 application of Standard Network Architecture Guidelines.
- As a Division Manager, I am part of a larger team that is responsible for the efficient planning, engineering, delivery, and management of local network capacity, assets, and associated information services. In general, this team ensures that AT&T optimizes the use of its limited resources and controls expenses while meeting end-user customers' expectations and allowing for an

1		appropriate return on the company's investment. In addition to overseeing the
2		deployment of the local network, I do the same for the long-distance network.
3 4	Q.	DO YOU HAVE ANY PRIOR TELECOMMUNICATIONS EXPERIENCE?
5	A.	Yes. Prior to becoming a part of AT&T in 1998, I did contract work at various
6		regional Bell companies (BellSouth) and operations companies between 1987
7		and 1993; from 1993 to 1998, I worked at Teleport Communications Group
8		("TCG"), which was acquired by AT&T in 1998.
9		Steven Grossmann
10	Q.	PLEASE STATE YOUR NAME AND YOUR BUSINESS ADDRESS.
11	А.	My name is Steven Grossmann. My business address is 5858 Horton,
12		Emeryville, California.
13	Q.	BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?
14	А.	I am a Division Manager with AT&T Network Engineering and Operations, the
15		organization within AT&T Corp. that provides local service to AT&T business
16		customers.
17 18	Q.	PLEASE DESCRIBE YOUR EDUCATIONAL AND EMPLOYMENT BACKGROUND.
19	A.	I obtained my bachelor's degree in Engineering Operations from San Francisco
20		State University in 1986, with a minor in business operations management. I
21		began my telecommunications career at Sprint, initially performing engineering
22		work for optical fiber network construction. I was promoted to a Director

position at Sprint leading the national Technical Support group that designed all
 radio and fiber routes.

3	In 1989, I moved to a more entrepreneurial opportunity with Centex
4	Telemanagement, where I was involved in negotiating access to Centrex
5	services from ILECs and long distance from IXCs as that full-service company
6	sought to expand its market. When MFS purchased that company, I continued
7	that same work as on behalf of MFS with added responsibilities in MFS'
8	facilities-based business. After an interruption due to an automobile accident, I
9	joined Northpoint as Vice-President of Network Building and Deployment. At
10	Northpoint I was responsible for all of its collocation arrangements, network
11	transport, and field operations.
12	When AT&T acquired Northpoint's collocation assets, I joined AT&T with the
13	initial task of building out DSL infrastructure at over 1900 collocation
14	arrangements. When the cost of that project proved prohibitive, I moved into
15	my present position in Network Engineering and Operations, where my primary
16	responsibility is in managing the access facilities that connect AT&T
17	collocations to AT&T points of presence ("POPs"), in the many instances
18	where circumstances have not justified self-deployment of AT&T network
19	
17	facilities to those collocations.

20Q.HAVE YOU TESTIFIED PREVIOUSLY IN REGULATORY21PROCEEDINGS?

A. No, I have not.

Q.

WHAT IS THE PURPOSE OF YOUR TESTIMONY?

2 The purpose of our testimony is to respond to the trigger and potential A. 3 deployment claims presented in the direct testimony filed by SBC Missouri ("SBC"). We respond from the perspective of our experience in planning and 4 deployment of competitive local networks generally, and the AT&T local 5 6 network in particular. SBC's testimony regarding the triggers gives the 7 mistaken impression that existing CLEC ring facilities already provide, or are 8 operationally ready to provide, the dedicated transport and high-capacity loop 9 services defined in the FCC's Triennial Review Order ("TRO"). SBC's 10 potential deployment testimony incorrectly assumes that competitors' local 11 service facilities can be quickly and economically constructed or modified to 12 provide dedicated transport, and that those facilities can be quickly and 13 economically extended to provide high-capacity loops to large numbers of 14 customer locations across broadly-defined areas. Our testimony will discuss 15 the real world economic limitations and obstacles that AT&T has encountered 16 in the construction and enhancement of its local network and how these factors 17 limit its deployment of local transport facilities and effectively foreclose 18 provisioning of dedicated transport between ILEC central offices, as well as 19 how those factors constrain the deployment of high-capacity loop facilities. 20 Additionally, our testimony will explain why SBC's allegations that AT&T 21 offers wholesale dedicated transport or high-capacity loop services are 22 inaccurate.

23 Q.

. HOW IS YOUR TESTIMONY ORGANIZED?

1	A.	Section II of the testimony describes why existing CLEC fiber rings, including
2		the facilities AT&T has deployed in Missouri, do not meet the requirements
3		imposed by the TRO's trigger analyses. We explain why SBC is wrong when it
4		asks this Commission to infer from the presence of CLEC fiber facilities at two
5		SBC Missouri central offices that the CLEC is providing dedicated transport
6		between those offices in a manner that satisfies the trigger requirements.
7		Similarly, we describe why a CLEC's extension of fiber facilities to a building
8		does not, without more, provide a basis for concluding that the CLEC is
9		providing high-capacity loops to that location in a manner that satisfies the
10		trigger requirements. Section III explains why, contrary to SBC's claims,
11		AT&T does not provide wholesale dedicated transport or loop services.
12		Section IV responds to SBC's potential deployment claims which simply
13		assumes away the economic and practical impediments encountered by CLECs
13		who attempt to construct and donlow local network facilities
14		who attempt to construct and deploy local network facilities.
15 16 17	II.	<u>AT&T'S MISSOURI LOCAL NETWORK FACILITIES, AND OTHER EXISTING CLEC FIBER RINGS, DO NOT MEET THE SELF-PROVISIONING OR WHOLESALE TRIGGER REQUIREMENTS</u>
18 19 20 21 22	Q.	DOES SBC'S APPROACH TO THE TRIGGER ANALYSES AUTHORIZED BY THE TRO GIVE DUE CONSIDERATION TO THE FACTORS THAT LED THE FCC TO MAKE NATIONAL FINDINGS THAT CLECS ARE IMPAIRED WITHOUT ACCESS TO UNBUNDLED DEDICATED TRANSPORT AND HIGH-CAPACITY LOOPS?
23	А.	No. As Mr. Minter's direct testimony described in detail, high sunk costs,
24		operational barriers, and limited revenue opportunities so consistently constrain
25		CLEC and third-party deployment of alternative dedicated transport and high
26		capacity loop facilities that the FCC made national findings that CLECs are

1		impaired without continued unbundled access to ILEC dedicated transport and
2		high-capacity loops (DS-1, DS-3, and dark fiber, subject to certain maximums
3		on DS-3). Recognizing the evidence of <i>limited</i> self-deployed and alternative
4		competitive facilities in these categories, the FCC set out the self-provisioning
5		and wholesale trigger requirements by which a challenger might seek to prove
6		the presence of facilities that justified an exception to the national impairment
7		findings on a specific dedicated transport route or for loops to a specific
8		customer-location, at particular capacities. SBC treats the trigger requirements
9		largely as mechanical counting exercises, with a heavy presumption in favor of
10		findings of non-impairment, and in which the presence of qualifying
11		competitive facilities may be found on the basis of liberal assumptions and
12		inferences. In the process, SBC makes a mockery of the trigger requirements
13		by assuming away the very real limitations on competitive facilities
14		deployment that led to the FCC's impairment findings in the first place, which
15		arise out of the facts and circumstances in which CLECs must seek to compete
16		with the incumbent LECs.
17 18 19	Q.	WHY IS ACCESS TO UNBUNDLED DEDICATED TRANSPORT NECESSARY EVEN FOR CLECS THAT HAVE CONSTRUCTED FIBER RINGS?
20	A.	Generally, facilities-based CLECs have constructed one or more fiber rings of
21		varying scope, and then connect customers to their network using those fiber
22		rings whenever practical. Nevertheless, in a majority of instances, the CLEC
23		will still need access to the ILECs' unbundled loops and interoffice transport,

24 including loop/transport combinations ("enhanced extended links", or "EELs"),

to connect retail customers to its network. The CLEC's fiber rings connect
aggregation points, such as collocation arrangements, and major customer sites
to the carrier's switching or hub site. Although a CLEC may possess a facility
that passes by two collocations, it will only rarely *connect* those two
collocations to create a service configuration that is functionally equivalent to
the dedicated transport UNE.

7 Facilities-based CLEC networks typically rely on UNE loops to serve the 8 majority of their customers, given the fixed and sunk costs associated with 9 building out loop facilities, as well as the delays in constructing such facilities, 10 and the disadvantages that those factors create for a CLEC seeking to compete 11 with the ILEC's already deployed infrastructure. Regardless of how they are 12 configured, loop facilities are the fundamental component to serving customers. 13 From a CLEC perspective, a loop is the connection between the retail 14 customer's premises and the CLEC's telecommunication's network. Critically, 15 however, the UNE loop provides only a portion of the path between the 16 customer and the CLEC's network, i.e., the connection between the customer's 17 premises and the incumbent wire center that would ordinarily serve that 18 location (if the incumbent provided the retail service). The CLEC's entire loop 19 may consist of 1) a UNE loop (described above) that is cross-connected to a 20 self-provided backhaul facility; 2) a UNE loop that is obtained in combination 21 with dedicated transport (i.e., an EEL); 3) a UNE loop that is cross-connected 22 (in a CLEC collocation) to leased transport, which in turn connects to a self-23 provided facility (a loop provided with hubbed/aggregated transport); 4) or, in

1		rare instances, a completely self-provided facility. Similarly, dedicated
2		transport – the unswitched connection between two incumbent LEC buildings –
3		is typically used as the functional equivalent of the incumbent's loop feeder
4		plant. It links the loops coming from a broad number of customer premises to a
5		dedicated facility that connects to the CLEC's local network.
6		The critical point is that both loop UNEs and dedicated transport UNEs are
7		employed by CLECs generally, and AT&T specifically, to provide what is the
8		functional equivalent of a loop in the incumbent's network. Thus, when the
9		Commission considers SBC's requests to limit access to loop and transport
10		UNEs, the Commission should recognize that SBC is seeking to limit the
11		CLECs' ability and options to connect customers to its network, thereby
12		limiting facilities-based competition from AT&T and other CLECs. In this
13		context, proof of competitive facilities and services actually being provided
14		today should be required to satisfy all elements of the trigger requirements, not
15		assumptions.
16		A. Dedicated Transport
17 18 19 20 21	Q.	SBC SUGGESTS THAT THE IMPAIRMENT ANALYSIS FOR DEDICATED TRANSPORT IS MET IF A CLEC, SUCH AS AT&T, HAS A COLLOCATION WITH FIBER FACILITIES AT TWO SBC MISSOURI CENTRAL OFFICES. (E.g, J.G. Smith Direct at 20-21.) IS THIS THE PROPER ANALYSIS?
22	A.	No. As explained below, and as applied to the available data in the
23		accompanying rebuttal testimony of Sean Minter, much more in-depth analysis
24		is required than to merely count collocations and fiber facilities. It is important

14	0.	IF A FIBER CABLE RUNS BETWEEN TWO COLLOCATIONS OF
13		CLEC fiber ring facilities generally.
12		assumption is demonstrably wrong, and I would expect it to be wrong for
11		discussed in more detail by Mr. Minter. In the case of AT&T facilities, the
10		proof of several necessary components of the FCC's trigger analyses, as
9		dedicated transport between those two locations. That assumption skips over
8		office "Z", that the CLEC necessarily is providing, or ready to provide,
7		arrangement at central office "A" and to a collocation arrangement at central
6		that wherever a CLEC has extended its own fiber facilities to a collocation
5		A and Z." J.G. Smith Direct at 20. Mr. Smith's (and SBC's) analysis assumes
4		central office "Z", it follows that the carrier has transport facilities connecting
3		fiber-based collocation arrangement in both [SBC] central office "A" and
2		triggers rests entirely on Mr. Smith's assertion that "if a competing carrier has a
1		for the Commission to realize that SBC's direct case under the transport

14 Q. IF A FIBER CABLE RUNS BETWEEN TWO COLLOCATIONS OF 15 THE SAME CLEC IS IT THEN APPROPRIATE TO CONCLUDE 16 DEDICATED TRANSPORT IS OR CAN BE PROVIDED?

17 No. In answering this question, it is critical to keep in mind the FCC's A. 18 definition of dedicated transport in the TRO. The FCC limited its definition "to 19 those transmission facilities connecting incumbent LEC switches and wire centers within a LATA." TRO ¶ 365. As revised, the definition of the 20 21 dedicated transport element includes only those transmission facilities that 22 connect locations within an incumbent LEC's transport network -- that is, the 23 transmission facilities between incumbent LEC switches. Id. at ¶ 366 24 (emphasis in original). Prior to the TRO, the FCC's definition of dedicated

1	transport also had included the ILEC's transmission facilities between one of its
2	switches and a CLEC switch. The TRO removed from the definition of
3	dedicated transport these transmission links "that simply connect a competing
4	carrier's network to the incumbent LEC's network," observing that these links,
5	referred to as "entrance facilities," "exist "outside the incumbent LEC's local
6	network." Id. (emphasis in original). The definition of dedicated transport
7	continues to require, as the name implies, that the transport facility be
8	"dedicated to a particular customer or carrier." 47 C.F.R. § 51.319(e)(1),
9	51.319(e)(2).
10	With these definitions in mind, it can be seen that the mere existence of a fiber
11	cable running past (or even through) two points proves nothing with regard to
12	its use to provide direct (non-switched) connectivity between those points.
13	First, a fiber cable is not a single transmission path. Rather, a single fiber cable
14	is composed of multiple bundles (sheaths), each of which contains multiple
15	fibers strands. It is these individual strands over which transmission paths can
16	be created using optronic equipment.
17	Therefore, although a cable route may "run through" both ILEC office A and
18	office B, the two offices may not be connected to the same bundle inside the
19	cable, much less to the same fiber strand within the same bundle. ¹ If the two
20	ILEC offices have not been configured to provide termination of the same fiber
21	strand at each office on the same transmission system (which is created by the

¹ In fact most of the fiber sheaths may only pass by the wire center, remaining in the conduit running down the street in front of the building rather than being split off to enter the wire center.

optronics equipment to which the strand is attached), then the CLEC does not
 (and cannot) have physical connectivity between the two locations. In order to
 provide such connectivity, a grooming and cross-connection function must be
 provided, using equipment at a third physical location.

5 AT&T typically connects its facility-based collocations, that is collocations to 6 which it has constructed fiber facilities, to its network using two-point rings, 7 where one point is the collocation and the second is the AT&T network 8 location (e.g., an AT&T switching center or point of presence). Accordingly, it 9 is not possible to provide "dedicated transport" between two such collocations 10 because, even though more than one collocation may be on the same cable 11 route, each is connected to the AT&T switch by a different fiber strand, or 12 "pair". In other words, the two collocations are not on the same fiber ring.

13 In more simple terms, a series of rings connect collocations at individual SBC 14 central offices to the AT&T switch in either Kansas City or St. Louis. These 15 rings create the hub-and-spoke scheme illustrated for St. Louis in Attachment 16 VSM-R-1B to Mr. Minter's rebuttal testimony, not the meshed network, in 17 which all collocations are connected to one another, as implied by SBC and 18 illustrated in Mr. Minter's Attachment VSM-R-1A. The fiber strands that 19 provide these separate rings may be running in the same sheath (bundle), or 20 cable of sheaths, between various locations, but they are physically separate 21 rings connecting AT&T's switch to individual collocations at SBC central 22 offices.

O.

WHY WOULD A CLEC SUCH AS AT&T PUT A COLLOCATION ON THE SAME FIBER CABLE BUT NOT THE SAME FIBER?

3 There are a number of practical reasons. A collocation cannot be actively A. connected to a particular fiber until it is ready for operation. Connecting 4 5 multiple collocations to a single fiber ring requires all the collocations to be 6 ready for operation at essentially the same time the optronics equipment 7 connected to the ring is activated to create a transmission system over the fiber. 8 Said another way, transmission on the ring can only be activated when the last 9 connection on the ring, or "node", is ready. Past experience has shown that 10 delay at one or more sites is frequently experienced. For example, delays in 11 collocation readiness or construction impediments at only one location may force the carrier to choose between a deferral of activation for all locations on 12 13 the ring or to implement a different network design. The more practical 14 approach is to run the fiber cable into a location (or to the access point just 15 outside the wire center), if possible, and then activate each collocation on its own two-point ring using its own fiber pair.² 16 17 A second major advantage of placing one collocation on its own two-point fiber 18 ring (connecting to the AT&T switch) is to simplify future upgrades and 19 modifications. Changes in capacity needed to provide service can be achieved

using the existing capacity of the two-point system (i.e., by adding plug-in

² The term "fiber pair" is used here as a term of convenience. Typically, a bi-directional (protected) transmission system utilizes one pair of fibers to transmit traffic in one direction *(e.g., a clockwise direction)* with a second pair assigned to provide transmission in the opposite direction *(e.g., the counterclockwise direction)*. This provides for immediate restoration capability in the event of a fiber cut or transmission equipment failure on the active path. Accordingly four fiber strands terminate on the optical multiplexer but two fiber strands (one in the primary and one in the backup direction) are required for the entire "circumference" of the ring. Note, however, that the segment from A to B does not necessarily occupy the same fiber pair as the connection from B to A.

modules) or by upgrading the system to higher transmission capacities (*e.g.*,
from 0C48 to 0C192). Should such an upgrade be required, it impacts only the
customers served out of that particular wire center. In contrast, if multiple wire
centers were on the same transmission system (*i.e.*, fiber) all the wire centers on
that fiber are potentially affected by a reconfiguration.

6 Q. IS IT TECHNICALLY FEASIBLE FOR A CLEC TO CREATE A
7 CONNECTION IF THE TWO OFFICES ARE ON THE SAME FIBER
8 CABLE, BUT NOT THE SAME FIBER?

9 Yes, it is technically feasible, but unless and until the CLEC has created such a A. 10 connection, there is no direct connectivity between the two offices, and the 11 CLEC simply is not providing dedicated transport between those offices (for 12 itself or for others). In addition, there is a significant distinction between what 13 is technically feasible and what is operationally and economically practical. 14 Even though technology may permit a carrier to create a dedicated transport 15 path between two points, the cost of doing so can be substantial, particularly 16 given that the CLECs' traffic demand between the two endpoints in the 17 incumbent's network will likely be very small. Accordingly, the FCC's trigger 18 analysis properly requires that a "trigger firm" actually be providing service 19 between the identified offices that form a dedicated transport route. As with all 20 facilities construction, a carrier cannot rationally be expected to incur the costs 21 of providing connections unless it is a rational approach to the serving 22 arrangement and has the prospect to generate revenues sufficient to cover the 23 costs incurred. And it is highly likely that a CLEC's demand for capacity

between two ILEC wire locations on its own ring would be too small to justify
 such an approach.

3 Q. WHY WOULD YOU EXPECT THAT A CLEC WOULD NOT 4 NORMALLY BE IN THE BUSINESS OF PROVIDING THE 5 EQUIVALENT OF DEDICATED TRANSPORT TO CUSTOMERS?

6 A. The practical purpose of connecting one ILEC office to another (as opposed to 7 connecting each office to the CLEC's network) is either (1) to provide a 8 dedicated (private line) retail service between two customer premises, one of 9 which is served by a loop from office A and the other served by a loop from 10 office B, or (2) to provide wholesale service to other carriers between those two 11 endpoints. Only the former situation would result in a condition appropriate for 12 consideration in a self-provisioning trigger analysis, and even then only if the 13 total demand were less than 12 DS3s worth of capacity (the only capacity that 14 can be obtained as a UNE).

15 Using such a configuration for retail service strains credibility. A customer that 16 might have substantial demand between two ILEC central offices would also 17 (most likely) have even more traffic running to locations well beyond those two 18 locations. That is, a customer is unlikely to have multi-megabits of transmission 19 between two points in close proximity unless those two points are also 20 connected to many other locations outside the local area. Given that such a 21 hypothetical customer would be a very large enterprise customer, the CLEC 22 would be more likely to build its loops out to the customer location. In such 23 cases, AT&T (and, we believe, CLECs generally) would likely connect these 24 loops to its local network facilities at a location other than a collocation space

1		in an SBC central office (such as a building where the CLEC has unrestricted
2		access, typically one owned (or leased) by the CLEC). Thus, the customers'
3		locations would be connected to AT&T's switch, and to one another, without
4		going through an SBC central office. Because such a configuration would not
5		connect two ILEC central offices, it could not be considered dedicated transport
6		under the TRO.
7		For example, in the St. Louis area, the **
8		firms are AT&T enterprise customers. Each firm has multiple offices that, if
9		served by SBC Missouri, would be served out of different central offices.
10		Where AT&T extends its own loop facilities to these customers, it connects
11		those loops to the AT&T switch and POP directly over its own ring facilities,
12		without taking the traffic back to a collocation arrangement in any SBC
13		Missouri central office. No transportation between SBC Missouri central
14		offices is involved in serving these large enterprise customers. Accordingly,
15		serving multi-office customers in this type of setting does not put the CLEC in
16		the position of providing dedicated transport between ILEC central offices.
17 18 19 20	Q.	WHY WOULD THE CLEC LIKELY CONNECT THE SELF- PROVIDED LOOP AND INTERPREMISES SEGMENT AT A LOCATION OTHER THAN THE TRADITIONAL SERVING WIRE CENTER (OF THE INCUMBENT) FOR THE PREMISES?
21	A.	The self-constructed loop facility would generally run back to a CLEC location
22		(network node), rather than to ILEC collocation, and then be connected to other
23		fiber as the particular customer design warrants. This affords the CLEC a better
24		ability to control service quality, because its nodes are generally manned round-

1		the-clock, or at least are generally accessible. In addition, fewer potential points
2		of failure (splice points and add/drop multiplexers) are generally involved.
3		Furthermore, CLECs generally employ collocation to obtain interconnection
4		with the incumbent LEC's network and to gain access to UNEs. In this
5		instance, neither is involved, as illustrated by the St. Louis customer examples
6		above. As a result, a CLEC would not ordinarily use costly collocations to
7		create the connection, particularly one that connects facilities that it self-
8		provides entirely from the customer's premises to its network.
9 10 11	Q.	ARE THERE OTHER REASONS WHY A CLEC WOULD NOT PROVIDE "DEDICATED TRANSPORT" DESPITE HAVING A CABLE BETWEEN TWO INCUMBENT OFFICES?
12	A.	Yes. Equally important from an operational/network perspective, is the fact that
13		transmission capacity on a multi-node fiber ring is "zero sum." Every direct
14		connection between any two points on the ring eliminates capacity across the
15		entire ring. For example, when optronics equipment is activated on a fiber ring
16		to create an OC48 transmission system, the system has the capacity to provide
17		48 "virtual circuits" (or dedicated optical paths) at a DS3 capacity, around the
18		ring.
19		If the ring is provisioned to provide direct termination of traffic between two
20		points on the ring (i.e., to provide dedicated transport between two ILEC
21		offices), it would not only reduce transmission capacity between those two
22		points, it would reduce the CLEC's capacity to terminate traffic at all other
23		points on the same ring. This occurs because all traffic on a protected ring

1	travels around the entire ring on a transmission system that has fixed capacity. ³
2	To illustrate, if a CLEC provisioned 6 DS-3 circuits between two ILEC central
3	offices on an OC48 ring, that "dedicated transport" would eliminate 6 of the 48
4	potential DS3 paths around the entire ring. If the CLEC provisioned those
5	dedicated transport circuits in both directions around the ring to provide
6	redundancy, providing 6 DS3 paths between these two offices would consume
7	12 of the 48 DS3 paths around the entire ring. Every DS3 provisioned between
8	any two points on the ring eliminates that amount of capacity everywhere on
9	the ring. Such suboptimal use of a fiber ring transmission system represents
10	another cost, or factor that explains why CLECs are unlikely to provision
11	dedicated connections between ILEC central offices within their fiber local
12	service networks.
13	The example below further illustrates this constraint. The table below describes
14	an 0C48 system on a hypothetical CLEC ring that passes through two ILEC
15	central offices and a CLEC switching node. In this example, all traffic from
16	ILEC office A is routed directly to the CLEC's switching node and all traffic
17	from ILEC office B is also routed directly to the CLEC's switching node, and
18	there are no direct connections between ILEC offices A and B. In that case, the
19	ring has characteristics shown below:

			CLEC Node N	Collo B
Task	Direction	Collo A		
Transmit	Clockwise	A-N: 24 B-A-N: 24	N-B: 24 N-B-A: 24	N-B-A: 24 B-A-N: 24

³ This characterization is a simplification. In actuality, it is more likely that the transmission segment will be active in only one direction. In the event that a transmission failure is detected, the system will automatically activate a transmission path in the opposite direction.

Receive	Clockwise	N-B-A: 24; B-A-N:	A-N: 24 B-A-N: 24	N-B: 24 N-B-A: 24
		24		
Transmit	Counter clockwise	A-B-N: 24 N-A-B:	N-A-B: 24 N-A: 24	A-B-N: 24 B-N: 24
		24		
Receive	Counter clockwise	N-A-B: 24 N-A: 24	A-B-N: 24 B-N: 24	A-B-N: 24 N-A- B: 24

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The entire capacity of the system is utilized in the above example. However, if the CLEC were to reconfigure its ring to permit the direct exchange of traffic between ILEC offices A and B, the capacity available to permit ingress and egress at the CLEC's network *(i.e.,* A to N and B to N) is reduced. In this case, let us assume 6 DS3s are provisioned between A and B. The carrier's revised network configuration is reflected in the following table:

			CLEC Node N	Collo B
Task	Direction	Collo A		
Transmit	Clockwise	A-N: 21	N-B: 21	N-B-A: 21
			N-B-A:	B-A-
			21	N:
		B-A-N: 21	A-N-B:6	
		A-N-		21
		B:6		B-A:6
Receive	Clockwise	N-B-A: 21;	A-N: 21 B-A-	N-B: 21 N-B-
		B-A-N: 21	N: 21	A: 21
		B-A:6	A-N-B:6	A-N-B:6
Transmit	Counter	A-B-N: 21	N-A-B: 21	A-B-N: 21
	clockwise	N-A-	N-A:	B-N:
		B:	21	21
			B-N-	B-
		21	A:	N-
		A-B:		A:
		6	6	
			-	6
Receive	Counter	N-A-B: 2	1 A-B-N: 21	A-B-N: 21
	clockwise	N-A: 2	1 B-N:	N-
		B-N-A:6	21	A-B:
			B-N-	
			A:6	21
				A-
				B:6

1	Thus, the direct routing of traffic between intermediate points on a ring will be
2	the rare exception rather than the rule, because it "steals" capacity from the
3	mainstream purpose of the CLEC's self-provided facilities — to connect retail
4	customers to its network.

Q. WOULD THE SUBOPTIMAL USE OF RING FACILITIES YOU DESCRIBED ABOVE BE ADDRESSED BY EFFECTIVELY MAKING A CONNECTION BETWEEN THE TWO INCUMBENT OFFICES AT THE CLEC'S NODE?

- 9 A. No, not without the insertion of additional grooming functionality. This
- 10 grooming capability is provided through a device such as a Digital Cross-
- 11 connection System (DCS). A DCS is not an inexpensive device and itself
- 12 consumes floor space and power resources. Nevertheless, the Commission must
- 13 keep in mind that technical feasibility is not the equivalent of "actual"
- 14 provisioning of dedicated transport. I believe that it is a rare instance when we
- 15 see the convergence of the following conditions, each of which is required to
- 16 justify the self-provisioning of dedicated transport facilities:

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- i. Two customer premises with substantial inter-premises demand to justify a dedicated connection for only that demand;
 - ii. The two locations home on different ILEC wire centers in the same local area;
 - iii. A CLEC has deployed a fiber cable between the two wire centers and connects the collocations within each wire center;
- iv. The two wire centers are connected to a common CLEC network location on a transmission system having sufficient available capacity and the same transmission system on the same fiber;
- v. The CLEC finds that the point-to-point demand between the
 locations, when combined with other demand at those premises is
 insufficient to build its own loop, (or in the alternative, chooses to
 build a loop to the collocation in the ILEC office rather than to its
 own network access point); and

1 2 3		vi. The CLEC has sufficient spare capacity for backhaul to its own network that the carrier can afford to dedicate demand to the point- to-point application.
4		Each condition is unlikely to occur. The joint probability of all six occurring is
5		practically nil.
6 7 8 9 10 11	Q.	SBC'S J. GARY SMITH HAS ASSERTED THAT AT&T FACILITIES ON SEVERAL "A" TO "Z" ROUTES SATISFY THE SELF- PROVISIONING AND WHOLESALE DEDICATED TRANSPORT TRIGGERS. WHAT HAVE YOU BEEN ABLE TO DETERMINE REGARDING THE AT&T FIBER FACILITIES CONNECTED TO AT&T COLLOCATIONS AT THOSE LOCATIONS?
12	A.	I am informed that Mr. Smith identified AT&T as a trigger candidate for the 28
13		routes I have listed on Highly Confidential Exhibit SG-1(HC). For 24 of the 28
14		routes, the AT&T collocation at the "A" location is connected to a different
15		AT&T local service fiber ring than the AT&T collocation at the "Z" location.
16		For each of these 24 routes, AT&T's self-deployed local network facilities
17		simply provide no direct physical connectivity between the two SBC central
18		offices. AT&T is not (cannot be) currently providing dedicated transport
19		between those locations, and could not do so without the modifications
20		described above, for which the expense and associated inefficiencies are highly
21		unlikely to be justified.
22		With respect to the remaining four routes, while the same fiber may be
23		connected to the "A" and "Z" locations, the transmission system has been
24		provisioned by activating optronics equipment to create virtual circuits
25		(essentially, dedicated space within the light passed across the fiber) from the
26		"A" location to the AT&T local switch serving the area, and from the "Z"
27		location to the AT&T local switch serving the area, i.e., AT&T uses the fiber to

1	provide entrance facilities between each collocation and the serving AT&T
2	local switch. The system has not been provisioned to create such a virtual
3	connection between the "A" and "Z" locations and, without that connection ,
4	traffic cannot be passed directly from "A" to "Z". Dedicated transport between
5	the two locations is not provided under this configuration. Again, the
6	functioning connections created in this fashion are illustrated in the hub-and-
7	spoke diagram attached to Mr. Minter's rebuttal.

8Q.IF A CLEC HAS TERMINATED THE SAME FIBER AT ITS9COLLOCATION ARRANGEMENTS AT TWO ILEC CENTRAL10OFFICES WITHIN A LATA, DOESN'T THAT IMPLY THAT THE11CLEC IS PROVIDING, OR CAPABLE OF PROVIDING, DEDICATED12TRANSPORT, BETWEEN THOSE TWO OFFICES?

13 No. Even if the two ILEC offices are on the same fiber strand, it is not A. 14 generally the case that the CLEC's network is designed to pass traffic between 15 the two offices. If the virtual circuits provisioned on the ring connect each of 16 those ILEC central offices to the CLEC's switch, and not to one another, as is 17 the case for the AT&T facilities at the four routes discussed above and as will 18 commonly be the case given CLECs' use of interoffice transport for the 19 purpose of backhauling traffic to their switches, then the CLEC cannot be providing dedicated transport (to itself or at wholesale) between the ILEC 20 21 offices. Moreover, some of the same expense, and all of the same siphoning off 22 of transport capacity, would have to be incurred by the CLEC in order to 23 modify its transmission systems to create a dedicated virtual circuit between 24 two ILEC offices. CLECs are unlikely to find justified the provisioning of 25 dedicated circuits between central offices that may be intermediate points on a

- 1 single ring, for the same reasons discussed above with respect to central offices
- 2 located on different rings.

Q. YOU HAVE SAID THAT THE AT&T FIBER-FED COLLOCATION ARRANGEMENTS ARE ALL CONNECTED TO THE AT&T LOCAL SWITCH AND SERVE AS ENTRANCE FACILITIES. DOES THE MERE EXISTENCE OF FACILITIES ROUTED FROM SBC CENTRAL OFFICE "A" TO SBC CENTRAL OFFICE "Z" THROUGH THE AT&T LOCAL SWITCH CONSTITUTE DEDICATED TRANSPORT BETWEEN THE TWO LOCATIONS?

10 Absolutely not. Mr. Minter discusses why these facilities are not dedicated A. 11 transport under the TRO definition. Even Mr. Smith seems to agree; his 12 illustration of dedicated transport in SBC's network (Schedule JGS-1L, page 2 of 2) shows SBC central offices "A" and "Z", with SBC central office "X" in 13 14 between. His exhibit identifies the transport link between A and X, and the 15 transport link between X and Z as "dedicated interoffice transport facilities," as 16 well as a separate link that runs all the way from A to Z without passing 17 through the switch at X. What he does not, and could not, identify as dedicated 18 transport between A and Z, is a path that would carry traffic from A to X, 19 where it is switched from X to Z. 20 Any suggestion that transporting traffic across a CLEC switch could satisfy a 21 dedicated transport trigger would be as fundamentally wrong as asserting that 22 switched access and special access are the same things. On the contrary, 23 transport across a switch, which functions to create temporary, only as-long-as-24 needed, circuits between the trunks connecting into the switch, is the antithesis 25 of a transport circuit that is dedicated (24 hours a day, 7 days a week) to a 26 particular carrier or customer. For example, providing a single DS3

1		"dedicated" path across a switch would consume 672 DS0 lines worth of the
2		switch's ports and infrastructure, 24 hours a day, 7 days a week. There are 21
3		"A" to "Z" SBC central office combinations in the St. Louis area where AT&T
4		has a fiber-fed collocation at each central office. The AT&T fiber facilities at
5		these collocations serve as entrance facilities to a single AT&T local switch
6		serving the area. Providing a single DS3 path over each of these 21 "routes"
7		through the AT&T switch would consume 14,112 lines worth of switching
8		capacity on a round-the-clock basis. This purely hypothetical arrangement
9		would add the full cost of a modest-sized class 5 switch to serve a mere point-
10		to-point transport function. The illustration is nonsensical, because switched
11		and dedicated transport are fundamentally different.
12 13 14	Q.	DID SBC IDENTIFY SPECIFIC TRANSPORT CAPACITY LEVELS PROVIDED BY COMPETING CARRIERS ON EACH CHALLENGED ROUTE?
12 13 14 15	Q. A.	DID SBC IDENTIFY SPECIFIC TRANSPORT CAPACITY LEVELS PROVIDED BY COMPETING CARRIERS ON EACH CHALLENGED ROUTE? No. SBC once again relied on assumptions and inferences, asserting that the
12 13 14 15 16	Q. A.	DID SBC IDENTIFY SPECIFIC TRANSPORT CAPACITY LEVELS PROVIDED BY COMPETING CARRIERS ON EACH CHALLENGED ROUTE? No. SBC once again relied on assumptions and inferences, asserting that the presence of a CLEC's fiber-fed facilities implies that the CLEC is able to
12 13 14 15 16 17	Q. A.	DID SBC IDENTIFY SPECIFIC TRANSPORT CAPACITY LEVELS PROVIDED BY COMPETING CARRIERS ON EACH CHALLENGED ROUTE? No. SBC once again relied on assumptions and inferences, asserting that the presence of a CLEC's fiber-fed facilities implies that the CLEC is able to provision DS3 transport. Specifically, Mr. Smith states that if a carrier has
12 13 14 15 16 17 18	Q. A.	DID SBC IDENTIFY SPECIFIC TRANSPORT CAPACITY LEVELS PROVIDED BY COMPETING CARRIERS ON EACH CHALLENGED ROUTE? No. SBC once again relied on assumptions and inferences, asserting that the presence of a CLEC's fiber-fed facilities implies that the CLEC is able to provision DS3 transport. Specifically, Mr. Smith states that if a carrier has deployed fiber optic transport facilities, it is "capable" of providing service at
12 13 14 15 16 17 18 19	Q. A.	DID SBC IDENTIFY SPECIFIC TRANSPORT CAPACITY LEVELS PROVIDED BY COMPETING CARRIERS ON EACH CHALLENGED ROUTE? No. SBC once again relied on assumptions and inferences, asserting that the presence of a CLEC's fiber-fed facilities implies that the CLEC is able to provision DS3 transport. Specifically, Mr. Smith states that if a carrier has deployed fiber optic transport facilities, it is "capable" of providing service at "virtually any level – including DS-3." ⁴ However, the TRO makes clear that
12 13 14 15 16 17 18 19 20	Q. A.	DID SBC IDENTIFY SPECIFIC TRANSPORT CAPACITY LEVELS PROVIDED BY COMPETING CARRIERS ON EACH CHALLENGED ROUTE? No. SBC once again relied on assumptions and inferences, asserting that the presence of a CLEC's fiber-fed facilities implies that the CLEC is able to provision DS3 transport. Specifically, Mr. Smith states that if a carrier has deployed fiber optic transport facilities, it is "capable" of providing service at "virtually any level – including DS-3." ⁴ However, the TRO makes clear that self-provisioned facilities at the OC(n) level do not qualify as trigger
12 13 14 15 16 17 18 19 20 21	Q. A.	DID SBC IDENTIFY SPECIFIC TRANSPORT CAPACITY LEVELS PROVIDED BY COMPETING CARRIERS ON EACH CHALLENGED ROUTE? No. SBC once again relied on assumptions and inferences, asserting that the presence of a CLEC's fiber-fed facilities implies that the CLEC is able to provision DS3 transport. Specifically, Mr. Smith states that if a carrier has deployed fiber optic transport facilities, it is "capable" of providing service at "virtually any level – including DS-3." ⁴ However, the TRO makes clear that self-provisioned facilities at the OC(n) level do not qualify as trigger
12 13 14 15 16 17 18 19 20 21 22	Q. A.	DID SBC IDENTIFY SPECIFIC TRANSPORT CAPACITY LEVELS PROVIDED BY COMPETING CARRIERS ON EACH CHALLENGED ROUTE? No. SBC once again relied on assumptions and inferences, asserting that the presence of a CLEC's fiber-fed facilities implies that the CLEC is able to provision DS3 transport. Specifically, Mr. Smith states that if a carrier has deployed fiber optic transport facilities, it is "capable" of providing service at "virtually any level – including DS-3." ⁴ However, the TRO makes clear that self-provisioned facilities at the OC(n) level do not qualify as trigger candidates. It is essential that equipment being used for OC(n) level services be distinguished from equipment providing DS3 or dark fiber transport. As the

⁴ J.G. Smith Direct at 29 (Transport).

1		capacity levels than a DS3. TRO \P 382. It is reasonable to assume that, even
2		where there actually is a connection between two SBC wire centers, it is most
3		likely provisioned at an OC(n) level of capacity for data networking purposes,
4		which would make it inapplicable for the self-provisioning trigger.
5		It should be recalled here that the TRO limits a CLECs' access to unbundled
6		DS3 transport to a maximum of 12 DS3s on a single route. TRO \P 388.
7		According to the FCC, CLECs with a need for greater capacity are not impaired
8		without access to unbundled dedicated transport. Accordingly, only evidence
9		that a CLEC is self-provisioning 12 or fewer DS3s on a route will be relevant to
10		the trigger analysis. A CLEC's deployment of OC-48 transport facilities that
11		include "A" and "Z" locations has no bearing on whether someone with a need
12		for only 12 or fewer DS3s between those two locations can economically self-
13		provide them. For that reason as well, the AT&T transport facilities connected
14		to its Missouri on-net collocations, which are deployed at a minimum of one
15		OC-48 connection to each collocation, are not relevant to the DS3 self-
16		provisioning trigger analysis.
17		B. High-Capacity Loops
18 19	Q.	HAS SBC IDENTIFIED ANY MISSOURI CUSTOMER LOCATIONS TO WHICH A CLEC IS PROVIDING ONLY 1 OR 2 DS-3 LOOPS?
20	A.	Not to my knowledge. As an AT&T non-attorney employee, I am precluded by
21		Missouri practice and the Protective Order in place in this case from reviewing
22		"Highly Confidential" information pertaining to parties other than AT&T. Mr.
23		Minter can address any information in Mr. Smith's "Highly Confidential"

1	exhibits. However, from the text of J. Gary Smith's testimony, it is evident that
2	he does not attempt to identify the actual provisioning of single DS-3 loops or
3	pairs of DS-3 loops to any location. Rather, he assumes that CLEC fiber optic
4	transmission facilities connected to a customer location can provide service at
5	the DS-3 level: "[a]lmost by definition, then, a fiber optic facility will satisfy
6	the trigger for DS-3 loops." J.G. Smith Direct-Loop at 20. He also points to
7	general advertising of DS-3 high-capacity loop service.

8 Q. DOES MR. SMITH'S APPROACH SATISFY THE SELF9 DEPLOYMENT TRIGGER REQUIREMENT FOR DS3 LOOPS?

10 A. No. As discussed above with respect to dedicated transport, the FCC also 11 limited CLEC access to unbundled DS-3 loops - to a maximum of two per 12 requesting carrier to any single customer location. TRO ¶ 324. This limitation 13 has a corollary: the self-provisioning trigger for DS-3 loops can only be satisfied by showing that two competing carriers are providing one or two DS-3 14 15 loops to a single customer location. A CLEC who has provisioned 3 DS-3 16 loops (equivalent to, and which may be provided through, OC-3 capacity fiber 17 facilities), or higher-capacity fiber facilities, to a customer location is irrelevant 18 to the DS-3 self-provisioning analysis. The demand and revenue opportunities 19 that may enable that CLEC to justify deployment of OC-3 or higher capacity 20 facilities have no bearing on whether a CLEC with an opportunity to provide 21 only one or two DS-3 loops to a building could economically and practically 22 justify deploying its own facilities.

1	SBC has made no attempt to limit its identification of competitive DS-3 loop
2	facilities for purposes of the self-provisioning trigger in this fashion. Its
3	assumption that DS-3 loops are being provisioned misses the relevant question
4	and includes facilities that should not be included. For example, to the extent
5	any of the providers characterize themselves generally as broadband providers,
6	and because such access is very likely Ethernet access at 100Mbps, it is more
7	reasonable to assume that they are providing an OC(n) level of service into
8	their buildings, unless specifically indicated otherwise. In fact, because the
9	ability of potential competitors to connect retail customers to their network is at
10	stake, no location should be considered for trigger purposes absent proof that
11	the identified carriers are actually providing only one of two DS3s or dark fiber
12	loops to the location and the carrier experiences (and foresees) no limitation on
13	its access to customers within the building. Thus, without proof that the self-
14	provider identified for a location provides fewer than 3 DS3 loops, then the
15	carrier should not qualify as serving the location with respect to the DS3 loop
16	unbundling trigger.

17 Q. DOES AT&T PROVIDE FEWER THAN 3 DS-3 LOOPS TO ANY OF 18 THE CUSTOMER LOCATIONS FOR WHICH SBC HAS IDENTIFIED 19 AT&T AS A SELF-PROVISIONING DS-3 TRIGGER CANDIDATE?

A. Not ordinarily. AT&T generally does not build to a location without
committed demand sufficient to justify deployment of at least one OC-3
facility. As Mr. Minter describes, AT&T's continuing review of this subject
has identified a very small number of Missouri locations to which it currently
provides only one or two DS-3 loops. AT&T is continuing to investigate the

1		circumstances surrounding its current service at those locations. However, as a
2		general matter, AT&T will not extend its facilities to a location without demand
3		for loop service equivalent to at least 3 DS-3s.
4 5 6 7	Q.	DOES THE FACT THAT A CLEC HAS EXTENDED SOME FIBER TO A BUILDING MEAN THAT THE CLEC HAS ACCESS THAT WILL PERMIT IT TO SERVE ALL CUSTOMERS IN THE ENTIRE BUILDING?
8	A.	No. As I will discuss further below in connection with SBC's potential
9		deployment claims, real limitations and obstacles persist with respect to
10		CLEC's ability to obtain access to serve customers throughout multi-tenant
11		premises. Of the locations to which AT&T has extended high-capacity loop
12		facilities in Missouri, AT&T has established access to the entire premises in
13		only a distinct minority. Mr. Minter's rebuttal testimony will provide the
14		specific locations that fail this trigger requirement. These include locations at
15		which AT&T's building access is restricted to a particular customer's unit or to
16		an individual floor, or group of floors.
17 18	III.	AT&T DOES NOT WHOLESALE DEDICATED TRANSPORT OR HIGH-CAPACITY LOOP SERVICES
19 20 21 22	Q.	MR. SMITH ATTACHES INFORMATION TO HIS DIRECT TESTIMONY WHICH HE ASSERTS DEMONSTRATES THAT AT&T PROVIDES WHOLESALE DEDICATED TRANSPORT AND LOOPS. ARE HIS ASSERTIONS ACCURATE?

- 23 A. No.
- 24 **Q.** WHY NOT?

1	A.	As I will explain, AT&T does not offer wholesale transport or high-capacity
2		loops to other CLECs and therefore cannot be counted as a carrier satisfying the
3		wholesale trigger on any of the routes or locations identified by Mr. Smith.
4 5 6	Q.	WHAT IS THE BASIS FOR YOUR DISAGREEMENT WITH MR. SMITH THAT AT&T IS A WHOLESALER OF DEDICATED TRANSPORT SERVICES?
7	A.	There are two main reasons I disagree with Mr. Smith. First, his supposition is
8		simply wrong. AT&T has made a business decision not to offer dedicated
9		transport facilities to other CLECs connecting to any SBC Missouri wire
10		center. Thus, even if AT&T had dedicated transport facilities, which it does
11		not, AT&T cannot qualify as a wholesale transport supplier.
12 13	Q.	WHAT IS THE OTHER REASON YOU DISAGREE WITH MR. SMITH'S SPECULATION?
14	A.	As I have explained above, AT&T does not self-provide any "dedicated
15		transport" facilities as that term is defined in the TRO. The only transport that
16		AT&T has self-provisioned in Missouri is transport between an ILEC CO and
17		AT&T's own switch. Obviously, all carriers necessarily build their switched
18		networks so that switched traffic can flow to all parts of their network, as well
19		as directly or indirectly to the networks of other carriers. However, from the
20		perspective of deployment of facilities for self-provisioned transport services,
21		AT&T's fiber network is not configured to flow traffic from one ILEC wire
22		center collocation to another ILEC wire center collocation. The network is
23		more logically thought of as a hub-and-spoke arrangement, hauling traffic from
24		the CLEC's collocation to the central tandem-area local switch. This is a

central-point-to-any-point architecture, not an any-point-to-any-point
 architecture.

15	Q.	AS SUPPORT FOR HIS POSITION THAT AT&T PROVIDES
14		transport.
13		Missouri, and therefore cannot be considered a wholesaler of dedicated
12		transport, it does not qualify as a "self-provider" on any transport route in
11		transport" in the TRO. Because AT&T does not self-provide any dedicated
10		ILEC wire centers, which is the only transport defined to be "dedicated
9		Therefore, AT&T has not self-provisioned any dedicated transport between two
8		switch, which is not dedicated transport.
7		paths between its COs; rather, such connections can only be made through its
6		directly connect two ILEC COs. Thus, AT&T has no dedicated transmission
5		dedicated transport under the TRO. AT&T has no facilities in Missouri that
4		directly connect an ILEC CO to the AT&T switch and do not qualify as
3		All of AT&T's transport routes in Missouri are "entrance facilities" that

16 WHOLESALE TRANSPORT, MR. SMITH POINTS TO STATEMENTS 17 ON AT&T'S OWN WEBSITE; IS MR. SMITH CORRECT TO RELY 18 ON THESE STATEMENTS TO SUPPORT HIS POSITION?

19 A. No. AT&T does offer some services on a wholesale basis to other carriers,

- 20 including some that involve forms of transport. However, AT&T does not
- 21 offer at wholesale any services that fall under the TRO definition of dedicated
- transport.

1	Those carriers who obtain transport service from AT&T desire a particular kind
2	of transport. These carriers want transport that will move traffic from their
3	switches to an ILEC CO. That is what AT&T offers. However, AT&T never
4	has offered transport between two ILEC COs, which is the only type of
5	transport defined in the TRO as "dedicated transport."

6 Q. CAN YOU PROVIDE AN EXAMPLE OF TRANSPORT SERVICE
7 PROVIDED BY AT&T TO CONNECT ANOTHER MISSOURI
8 CARRIER'S COLLOCATION ARRANGEMENTS AT SBC CENTRAL
9 OFFICES TO ITS SWITCH?

10 Yes. In responses to discovery in this case, NuVox (formerly Gabriel) A. 11 Communications identified several SBC Missouri central offices in the St. 12 Louis and Kansas City areas at which it obtains transport service from AT&T 13 to its local switch. NuVox was careful to state that it did not know whether the 14 AT&T transport facilities routed its traffic directly to its switch from each 15 central office, or from one central office to another before taking the traffic to 16 its switch. In fact, AT&T does provide a direct connection between the NuVox 17 collocation at each central office and the NuVox local switch. Review of 18 AT&T network records confirms that most of the NuVox collocation 19 arrangements are connected to different AT&T rings. Even for those few pairs 20 of offices that are on the same AT&T ring, no virtual circuit has been mapped 21 or provisioned between the two offices; rather, virtual DS3 or DS1 paths have 22 been mapped to connect each NuVox collocation directly to its switch. This 23 pattern, of course, parallels the hub-and-spoke pattern of entrance facilities that 24 AT&T provides to itself between its on-net collocations and its local switch 25 serving those collocations. None of the circuits provided to NuVox are

- 1 dedicated transport as defined in the TRO. Thus, AT&T cannot be considered
- 2 a wholesaler of dedicated transport.

Q. MR. SMITH ALSO ASSERTS THAT AT&T MAY BE A WHOLESALE PROVIDER OF HIGH-CAPACITY LOOP; HAVE YOU REVIEWED THE PORTION OF MR. SMITH'S DIRECT TESTIMONY THAT MAKES THIS CLAIM?

7 A. Yes.

8 Q. DO YOU AGREE WITH MR. SMITH'S CLAIM THAT AT&T MAY BE 9 A WHOLESALER OF HIGH-CAPACITY LOOPS?

- 10 A. No. SBC has cited no evidence to support this claim, other than the same
- 11 website references discussed above for transport, which are even less relevant
- 12 here. There is a simple reason AT&T does not satisfy the wholesale trigger for
- 13 loops: AT&T offers no high-capacity loops at wholesale. AT&T has made a
- 14 choice not to engage in the business of wholesaling loops. AT&T is simply
- 15 unwilling to make high-capacity loops widely available on a wholesale basis.

16 IV. SBC'S POTENTIAL DEPLOYMENTS CLAIMS ASSUME AWAY REAL 17 IMPEDIMENTS TO POTENTIAL DEPLOYMENT OF DEDICATED 18 TRANSPORT AND HIGH-CAPACITY LOOPS

19 Q. PLEASE DESCRIBE WHAT IS MEANT BY POTENTIAL 20 DEPLOYMENT.

- 21 A. At the end of its discussions of the self-provisioning triggers for dedicated
- transport and high-capacity loops, the FCC provides that incumbents may
- attempt to demonstrate that no impairment exists on a specific route (for
- 24 dedicated transport at a particular capacity) or to a specific customer location
- 25 (for loops at a particular capacity), even though neither trigger has been
- 26 satisfied. This is generally referred to as the potential deployment test. Mr.

- 1 Minter's direct testimony describes in detail the requirements imposed by the 2 Triennial Review Order in conjunction with a potential deployment review. DID THE FCC EXPECT THE POTENTIAL DEPLOYMENT TEST TO 3 Q. 4 **APPLY BROADLY?** 5 A. No. FCC Commissioner Abernathy described the test to Congress as follows: 6 With respect to interoffice transport . . . [t]he Commission also authorized 7 states to find, based on their consideration of various economic factors, an 8 absence of impairment where a route is served by fewer than two wholesalers 9 or three total carriers, but such findings will constitute a narrow exception to the rule."⁵ The Commissioner's logic applies equally to high-capacity loops. 10 11 For both categories, findings of non-impairment based on potential deployment 12 should be the narrow, or rare, exception.
- 13A.Dedicated Transport

14 Q. HAVE YOU REVIEWED THE DIRECT TESTIMONY OF J. GARY 15 SMITH OF SBC CONCERNING THE POTENTIAL DEPLOYMENT OF 16 DEDICATED TRANSPORT?

17 A. Yes, I have.

18 Q. WHAT WERE THE CONCLUSIONS OF THE POTENTIAL 19 DEPLOYMENT ANALYSIS AS PROVIDED BY SBC?

- 20 A. SBC has asserted that all of the transport routes that it challenges under either
- 21 the self-provisioning and/or wholesale triggers should also receive non-
- 22 impairment findings from the Commission on the basis of potential

⁵ Commissioner Abernathy's Responses to Post-Hearing Questions for the Record on the Triennial Review Proceeding from the Subcommittee on Telecommunications and the Internet, submitted in a March 17, 2003 letter from Commissioner Abernathy to Hon. Fred Upton, Subcommittee Chair, at page 1 of the attachment.

1	deployment. The specific routes for which non-impairment is claimed by SBC
2	are found in Schedules JGS-10T and JGS-13T to the Direct Testimony of J.
3	Gary Smith - Transport.

4 Q. ON WHAT BASIS DOES SBC ASSERT THAT THESE TRANSPORT 5 ROUTES MERIT A POTENTIAL DEPLOYMENT ANALYSIS FOR 6 DEDICATED TRANSPORT?

A. Basically, SBC assumes that if a location has the *potential* to qualify for
purposes of a wholesale or self-provisioning trigger that it would likewise merit
consideration for a potential deployment evaluation. That assumption is
nonsensical in the absence of substantial additional facts.

Q. DO YOU BELIEVE THAT SBC'S POTENTIAL DEPLOYMENT
 ANALYSIS FOR DEDICATED TRANSPORT IS PROPER?

13 No, and I say that for several reasons. First, as Sean Minter explains in his A. 14 rebuttal testimony regarding both the self-provisioning and wholesale triggers, 15 SBC has greatly overstated the number of existing dedicated transport routes of 16 competing providers. Second, SBC cannot satisfy the potential deployment 17 analysis unless it can show that multiple carriers have the potential to self-18 provision transport at the capacity levels that would otherwise be available as 19 UNEs. A proper analysis needs to reflect the FCC's specific decision that 20 CLECs are impaired without unbundled access to dark fiber transport and 21 twelve or fewer DS3s of transport along any given route. See TRO ¶ 388. 22 Thus, as noted above, SBC cannot rely on the existence of OC(n) level 23 transport routes to show that potential deployment is possible at lower capacity 24 levels. And even for the rare route where the potential for self-deployment

- 1 might be persuasively demonstrated, the potential deployment evaluation does
- 2 not and should not result in a relaxing of unbundling obligations for all
- 3 quantities of UNEs but rather, should only result in an adjustment (down or up)
- 4 to this national threshold of IJNE availability (12 DS3s).

5 Q. DID SBC PROVIDE A GRANULAR ANALYSIS SHOWING THAT THE 6 ROUTES MEET THE FCC'S REQUIREMENTS FOR ECONOMIC 7 VIABILITY, OR THAT THEY HAVE CONSIDERED THE NINE 8 FACTORS OUTLINED BY THE FCC?

- 9 A. No. SBC has provided no route-specific analysis of any kind to support its
- 10 potential deployment claims for dedicated transport. On this basis alone, any
- 11 potential deployment claims for these routes should be rejected.

12 Q. ARE THERE OTHER SPECIFIC REASONS WHY YOU DO NOT 13 AGREE WITH MR. SMITH'S ANALYSIS OF POTENTIAL 14 DEPLOYMENT?

- 15 A. Yes. Mr. Smith suggests that, for each of the transport routes that do not meet
- 16 either the self-provisioning or wholesale triggers, the Commission should find
- 17 that there is sufficient potential for deployment to make a finding of non-
- 18 impairment on all of these routes. Mr. Smith apparently reasons that, if one
- 19 carrier has already deployed some fiber along a given route, any other carrier
- 20 can likewise deploy fiber along that same route, and therefore there is no
- 21 impairment along that route.
- 22 This is a flawed analysis. First, Mr. Smith's analysis assumes that, simply
- 23 because one carrier had deployed dedicated transport facilities, other carriers
- 24 would have reason to construct such facilities and could quickly and easily do
- so as well. It is wrong to make this assumption. As described in connection

with the trigger analysis above, it will be the rare circumstance that justifies
 construction and provisioning of dedicated transport facilities by a CLEC.
 They can only be justified where a carrier has sufficient traffic volume to
 justify the expense – for this purpose, volume between two ILEC central
 offices.

6 Moreover, Mr. Smith's testimony would essentially render the triggers 7 irrelevant. For example, assume there is a transport route on which there is 8 only one carrier that had deployed dedicated transport. Such a route would not 9 meet the self-provisioning trigger because the TRO requires three self-10 providing carriers. Indeed, even if the existence of one carrier on a route offers 11 some evidence regarding potential deployment, it is clearly not dispositive. For 12 example, the carrier may have been operating under a unique set of 13 circumstances that are not applicable to competitive carriers in general. (This is, 14 in fact, the very reason that the FCC requires proof that multiple carriers have 15 surmounted the barriers to self-provisioning to a particular building or on a 16 specific route.) Similarly, as the market evidence has shown, competitors have 17 often deployed facilities in the hopes that there will be sufficient demand to fill 18 them in the future, only to find that the hoped-for demand never materialized. 19 Thus, the FCC has held that the presence of only one (or even two) self-20 providers is not dispositive of the fact that the location/route at issue is suitable 21 for multiple competitive supply, and SBC cannot rely on the presence of a 22 single carrier to undermine that conclusion, unless it can make a specific

showing that it would in fact be economically and operationally feasible for a
 competitor to construct its own facilities on the identified route.

3 Q. HOW DOES AT&T DECIDE WHEN IT WILL SELF-PROVISION 4 TRANSPORT FACILITIES?

A. AT&T only entertains possible network expansions where there is sufficient
traffic demand to support the costs AT&T incurs when building its network.
The economics of expansion are only sensible when there is sufficient traffic
volume between two points to justify the construction.

9 When AT&T considers whether to build its own interoffice transport facilities 10 to an ILEC Central Office ("CO"), i.e, entrance facilities, most COs can be 11 eliminated right off of the bat because they do not have sufficient traffic 12 volume to economically justify such construction. Indeed, in 70 percent of the 13 ILEC COs where AT&T provides service, AT&T does not have sufficient 14 traffic to fill a single DS-3 facility to reasonable levels of utilization, including both local and long distance traffic demand. This falls far short of the traffic 15 16 required to justify self-deployment. As the FCC concluded, such construction 17 cannot be justified without the reasonable expectation that the facility will be 18 used to support multiple (e.g. 12) DS-3s worth of traffic. Thus, building 19 facilities to the vast majority of COs is infeasible for AT&T (and other 20 CLECs). Even where sufficient volumes may be anticipated, AT&T must have 21 the collocation necessary to connect its self-provisioned facilities. And in any 22 event, the transport facilities that AT&T does find practical to build at times are

1		facilities that will connect an AT&T collocation at an SBC central office to
2		AT&T's local switch or point of presence, not to another SBC central office.
3 4 5	Q.	PLEASE IDENTIFY SOME OF THE FACTORS THAT PRECLUDE POTENTIAL SELF-DEPLOYMENT OF CLEC LOCAL TRANSPORT FACILITIES.
6	A.	There are any number of other factors that may preclude using a Type I
7		arrangement" in a given $CO.^6$ These include: (1) the construction obstacles
8		detailed below; (2) prior volume and/or term commitments by the customer that
9		make it uneconomical to convert facilities because of termination liability
10		penalties; (3) exhaustion of collocation capacity; (4) distances between the CO
11		and POP that are too great to make construction economically feasible; and (5)
12		lack of assurances that the conditions required to make the business case (i.e.,
13		sufficient traffic volumes) will not evaporate. Any one of these factors may
14		make construction of transport facilities to a given location infeasible. These
15		same factors would apply to CLEC construction of transport between two ILEC
16		COs, i.e., dedicated transport, with the justification for construction much more
17		unlikely, for the reasons discussed earlier.
18		Often, the most critical issue is timing. New network construction is very time

consuming. The process, beginning with the acquisition of necessary rights of

⁶ AT&T connects it customers to its own network using two distinct methods. Under the first method, referred to as "Type I" provisioning, AT&T provides the connection between the enduser customer and AT&T's network entirely on AT&T owned and operated facilities. In these situations, AT&T either owns or is economically able to justify building facilities to the enduser's premise. The second – and by far more common provisioning method, is referred to as "Type II" provisioning, in which AT&T leases from another carrier some portion of the equipment or facilities used in providing connectivity to the end-user's premises. When it uses Type II provisioning, AT&T has determined that it does not have, or cannot feasibly build, facilities all the way from its network to an end-user's premises.

1		way and continuing throughout the physical deployment of the facilities, is
2		fraught with hurdles that slow, and at times can even stop deployment.
3		Typically, such construction requires cooperation from local authorities and
4		other carriers and can take months, or even years, to complete. But customers
5		typically seek service in timeframes measured in days or weeks. As a result,
6		when faced with the prospect of significant construction delays, AT&T must
7		rely on other suppliers able to meet those time constraints or lose the
8		customer's business. And the choice of other suppliers is generally a choice of
9		one - the ILEC.
10 11	Q.	YOU MENTIONED RIGHTS OF WAY. HOW DOES RIGHTS-OF-WAY ACCESS IMPACT CONSTRUCTION OF FACILITIES?
12	A.	Unreasonable delays in the granting of access to rights-of-way ("ROWs")
13		constitute perhaps the greatest operational obstacle faced by CLECs in
14		deploying their own transport facilities. AT&T cannot begin construction of a
15		route until all of the needed ROW agreements are in place.
16 17	Q.	PLEASE DESCRIBE THE PROCESS OF OBTAINING ROW ACCESS IN MISSOURI.
18	A.	AT&T must obtain ROW access for the entire footprint of its network. AT&T
19		is therefore required to obtain ROW access from many entities, including
20		municipalities, counties, the State of Missouri, railway companies, power
21		companies, governmental entities, and private landowners before it begins
22		construction. AT&T's only legal resort when negotiating with these entities is
23		the Federal Telecommunications Act of 1996.

Even with municipalities that recognize an obligation to allow for competitive facilities construction under the Act, the practical process of submitting plans for review and obtaining approvals still may delay projects for months. Other owners of ROWs may demand exorbitant fees and set other onerous conditions. AT&T has experienced resulting delays and additional costs across the country.

6 Q. CAN YOU GIVE AN EXAMPLE OF DELAYS RESULTING FROM 7 ACTIONS OF RIGHT OF WAY OWNERS IN MISSOURI?

A. Yes. A recent example involved an AT&T project to build into several
locations near Olive & Lindbergh in St. Louis for an enterprise customer. For
part of the project, AT&T sought to place aerial cable on poles under
agreement with a third party who had access to the poles. The poles were built
on private rights-of-way. The property owner refused to allow AT&T use of
the rights-of-way without an agreement to pay him a portion of the revenues
from the circuits to be placed there, and the aerial cable was never activated.

Railroad rights-of-way present another problem area. For example, last 15 16 summer, AT&T was working to complete facilities to a customer that included 17 use of a Norfolk Southern railroad spur that crossed between two adjacent 18 private commercial properties. When it was discovered that the railroad spur 19 was on an easement granted by a previous property owner, the process of 20 obtaining right-of-way agreement added over two months delay at a time when 21 the customer was pressing for completion. And this experience was a relatively 22 good one in dealing with railroad rights-of-way.

1	Finally, it is my understanding that, in order to obtain access to rights-of-way
2	for construction in the city of St. Louis and in St. Louis County, even the
3	routine review of applications and construction plans and drawings adds a
4	month to a project in order to obtain permits.

5 Q. WHAT CHOICES DOES AT&T HAVE IN RESPONDING TO SUCH 6 IMPEDIMENTS TO OBTAINING RIGHTS OF WAY?

A. To avoid these delays, AT&T and other CLECs have three choices: they can
accept these burdensome and discriminatory conditions and additional costs;
use the existing facilities of the incumbent; or forego competing to provide
service to customers. None of these alternatives puts a CLEC in a practical
position to compete.

Q. ONCE AT&T HAS OBTAINED THE NECESSARY AUTHORIZATIONS, DOES IT INCUR OBSTACLES DURING THE CONSTRUCTION PROCESS?

15	A.	Yes. Even if AT&T obtains all of the necessary authorizations (e.g., rights-of-
16		way), that is only the beginning of the process. Once all these steps have been
17		successfully completed - and assuming the customer is still willing to wait for
18		service - the CLEC is then in a position to begin constructing the necessary
19		facilities. As with any type of construction project, unforeseen problems
20		(including such external factors as labor and equipment shortages) can delay
21		completion. Even under ideal conditions, it typically takes a number of months
22		for a facility to become "revenue ready" - <i>i.e.</i> , ready to provide service to a
23		customer or customers subtending a particular central office. Such ideal

- 1 conditions include the availability of collocation space and all construction
- 2 proceeding without unforeseen delays.

Q. IN ADDITION TO CONSTRUCTING THE TRANSPORT ROUTE, WHAT ELSE WOULD AT&T HAVE TO DO TO PROVIDE DEDICATED TRANSPORT?

- 6 A. AT&T and other CLECs would have to establish appropriate collocation in the
- 7 two ILEC central offices to be connected by dedicated transport.

8 Q. HOW IS THIS NEED RELEVANT TO THE POTENTIAL 9 DEPLOYMENT TRANSPORT CLAIMS ADVANCED BY SBC HERE?

- 10 A. SBC Missouri has limited its potential deployment transport claim to routes that
- 11 it is challenging under the trigger analyses. However, the fact that two or three
- 12 CLECs presently have collocation space at "A" and "Z" central offices says
- 13 nothing about whether another CLEC who had a need for dedicated transport
- 14 between those two offices (at or below 12 DS3s) would find collocation space
- 15 available in those offices on a timely basis and would be able to justify the
- 16 expense of a collocation arrangement to obtain this limited volume of dedicated
- 17 transport between the two offices. SBC has not even attempted to show that
- 18 collocation is available and affordable on any particular route, although that
- 19 would be an essential component of determining that self-provided dedicated
- 20 transport is economical for CLECs on that route.
- 21 B. High-Capacity Loops

Q. HAVE YOU REVIEWED THE TESTIMONY OF J. GARY SMITH OF SBC CONCERNING THE POTENTIAL DEPLOYMENT OF HIGH CAPACITY LOOPS?

25 A. Yes, I have.

1Q.DO YOU AGREE WITH HIS ANALYSIS OF POTENTIAL2DEPLOYMENT?

3 A. I do not. Mr. Smith's approach to potential deployment of loops is, if anything, 4 an even more extreme departure from the TRO than his approach to transport. 5 Mr. Smith's theory appears to be that because some fiber has been deployed by 6 particular carriers in portions of St. Louis and Kansas City, a customer lateral 7 can be quickly and easily constructed by any carrier and connected to this fiber 8 to service any building within 300 feet of this fiber. There are multiple 9 problems with this theory, many of which are discussed in the testimony of 10 Sean Minter. However, I will explain several problems that I have with this 11 theory from a network engineering standpoint.

12	First, the fact that carrier A has fiber near a building does not mean that carriers
13	B and C can build customer laterals to that buildings; it only means that carrier
14	A alone <i>might</i> be able to build a customer lateral. Mr. Smith does not say
15	which, if any, of the buildings he has identified as "potential deployment"
16	candidates could be served by more than one carrier. Thus, he offers no
17	information as to whether those buildings are suitable for multiple competitive
18	supply. As with his theory regarding dedicated transport, the fact that one
19	carrier is serving a building is not sufficient to meet the loop triggers, so the
20	mere possibility that one carrier might be able to serve a building is likewise
21	insufficient to demonstrate that potential deployment is feasible for CLECs in
22	general, or that the identified building is suitable for multiple competitive
23	suppliers.

1	Another problem with Mr. Smith's theory is that he simply and without
2	explanation assumes that any building within 300 feet of fiber can be served by
3	a customer lateral of 300 feet. However, in my experience, it is frequently the
4	case that the necessary path from the fiber ring to the building is not a straight
5	line, but instead is a meandering path that is longer than the as-the-crow-flies
6	distance would suggest. As a result, many of the buildings are not really within
7	300 hundred feet of the fiber ring in the first place.
8	Finally, Mr. Smith's theory is flawed because it suggests that loops can be

9 quickly and easily constructed to any of the building locations. This sort of
10 demonstration could only be meaningful if it were made on a location by
11 location basis, because there are often unique circumstances that prevent a
12 CLEC from building an extension to serve a building.

Q. WHAT OBSTACLES DOES AT&T FACE IN DEPLOYING ITS OWN HIGH-CAPACITY LOOPS?

15 A. When AT&T is deploying its own loops, it faces not only all of the hurdles that 16 it faces when building interoffice transport, but also faces a number of 17 additional hurdles as well. Because loops generally serve only a single location 18 (and often only one or a few customers at that location), it is even more 19 difficult to accurately identify instances where the potential demand, the costs to build, and the difficulty of construction indicate a wise investment. 20 21 A critical problem that AT&T has encountered in deploying its own loops is the 22 need to negotiate access to each building. This is all too often an independent

barrier to entry. It is often the case that access agreements are too difficult to

1	complete, such that landlords only allow AT&T to provide "fiber to the floor"
2	to serve a particular customer rather than to the common space necessary to
3	serve customers located throughout the building. This result keeps AT&T from
4	accessing the entire building. In such a case, AT&T loses the ability to serve all
5	of the customers in a building who are not on the particular floor where AT&T
6	has obtained access.

Q. HOW HAS THE NEED TO NEGOTIATE BUILDING ACCESS AGREEMENTS ADVERSELY AFFECTED AT&T'S ABILITY TO DEPLOY HIGH-CAPACITY LOOPS?

- 10 A. There are two primary ways AT&T has been handicapped by the need to
- 11 negotiate building access agreements. First, the negotiation imposes a delay on
- 12 providing service. This discourages potential customers from having an
- 13 interest in changing their service to AT&T. Second, the access agreements
- 14 cost money, that must be factored into the determination whether it will be
- 15 economically justifiable to provision service to a new customer.

16 Q. WHAT TYPE OF PROBLEMS HAS AT&T ENCOUNTERED IN 17 OBTAINING BUILDING ACCESS?

- 18 A. AT&T has encountered a wide range of problems, including building owners
- 19 who will not return AT&T calls regardless of our level of persistence, and
- 20 owners who are only willing to provide access in exchange for AT&T's
- 21 agreement to unreasonable terms most often highly inflated monthly fees for
- 22 placing AT&T facilities in a building.

23 Q. CAN YOU GIVE EXAMPLES FROM MISSOURI?

1	A.	Yes. I already have described the example of the private right-of-way owner
2		who halted an aerial cable project by insisting on sharing in the revenues from
3		the project. Another recent example is a project for **
4		AT&T was ready to proceed with construction in mid-October 2003 (and to
5		complete construction by month end) for a customer who wanted service by
6		December 1, 2003. To date, however, AT&T has been unable to negotiate
7		entry into the building with the owner. This delay has required the customer to
8		continue with SBC on a month-to-month basis, jeopardizing AT&T's
9		acquisition of this customer's business. This is the sort of real-world problem
10		that AT&T and other competitors can and do encounter in seeking to extend
11		service to customers, and they vary from owner to owner unpredictably, not on
12		the basis of proximity to existing CLEC fiber. I do not believe it is fair,
13		appropriate, or at all justified for SBC to assume these problems away, even
14		within a 300-foot corridor, without consideration of owner demands or
15		practices at any individual building, solely on the basis of Mr. Gary O. Smith's
16		statement that, in his experience representing SBC, he has found "that building
17		owners are willing to negotiate agreeable access arrangements to their
18		property." G.O. Smith Direct at 24. It is not surprising that building owners
19		long have accommodated, or that they would continue to accommodate, the
20		provider who for so long was the only provider of local telecommunications
21		services, but that fact is not evidence that building owners offer reasonable
22		terms of access to CLECs generally in Missouri, and it certainly is not evidence
23		that CLECs have access to the entire building at any of the particular locations

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- 1 for which SBC seeks to eliminate its 251(c)(3) unbundling obligation in this
- 2 case on the basis of potential deployment.

3 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

4 A. Yes.