Exhibit No:

Issues:

Network Issues

Witness:

Mark J. Welch

Type of Exhibit:

Rebuttal Testimony

Sponsoring Party:

Southwestern Bell Telephone Company

Case No:

TC-2000-225, et al.

FILED³

MAY 3 1 2000

Missouri Public Service Commission

SOUTHWESTERN BELL TELEPHONE COMPANY CASE NO. TC-2000-225, et al.

Rebuttal Testimony of

Mark J. Welch

Dallas, Texas May 2000

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE	STATE OF MISSOURI	FILED ³
MCI WorldCom Communications, Inc.,)	MAY 3 1 2000
et. al., Complainants,)))	Missouri Public Service Commission
vs.) Case No. TC-2000-	225, et al.
Southwestern Bell Telephone Company,) ,)	
Respondent.)	
AFFIDAV	IT OF MARK J. WELCH	
CITY OF DALLAS)		
) SS STATE OF TEXAS)		
I, Mark J. Welch, of lawful age, b	being duly sworn, depose and s	tate:
1. My name is Mark J. Weld	ch. I am presently General Mar	ager-Network
Regulatory for SBC Management Service	ces, Inc.	
2. Attached hereto and made	e a part hereof for all purposes	s my rebuttal testimony.
3. I hereby swear and affirm	n that my answers contained in	he attached testimony to
the questions therein propounded are tru	e and correct to the best of my	knowledge and belief.
	Mark J We	Welch
Subscribed and sworn to before me on the	his <u>24</u> day of <u>MARCH</u>	_, 2000.
SANDRA K. MAPLES Notary Public, State of Texas	<u> Sandra K</u> Notary Pub	. Majolz lic

Notary Public, State of Texas My Commission Expires 01-06-02

Q. PLEASE STATE YOUR NAME, TITLE, AND BUSINESS ADDRESS.

- 3 A. My name is Mark J. Welch. My office is located at Three Bell Plaza, Room 730, Dallas,
- 4 Texas 75202.

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6 O. BY WHOM ARE YOU EMPLOYED AND IN WHAT POSITION?

- 7 A. I am employed by SBC Management Service, Inc. My title is General Manager Network
- 8 Regulatory. I am providing testimony based on my position as Area Manager Network
- 9 Regulatory, Southwestern Bell Telephone Company.

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Q. WHAT WERE YOUR RESPONSIBILITIES IN THIS POSITION?

- 12 A. As Area Manager Network Regulatory, I was responsible for negotiating with certain
- 13 Competitive Local Exchange Carriers (CLECs) the network architecture for interconnection
- agreements to meet the requirements of the Federal Telecommunication Act (FTA). I was
- specifically responsible for negotiating the contractual language addressing network issues,
- including network interconnection methods, trunking requirements, and central office code
- 17 (NXX) requirements.

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Q. WHAT IS YOUR EDUCATIONAL BACKGROUND?

- 20 A. I have a Bachelor of Science in Industrial Engineering degree from the University of
- Oklahoma, Norman, Oklahoma. I have a Masters of Administrative Studies from
- 22 Southeastern Oklahoma State University, Durant, Oklahoma. I have also begun pursuing a
- 23 Maters of Science in Telecommunications from Oklahoma State University.

Q. PLEASE DESCRIBE YOUR WORK EXPERIENCE.

- 2 A. I obtained full-time employment from Southwestern Bell Telephone in 1992. Prior to that
- 3 time, I participated in university-sponsored work study programs. Since 1992, I have held
- 4 management positions in many different capacities. Specific assignments which relate to the
- 5 credibility of this testimony include: Long Range Technical Planning Facility
- 6 Interconnection, Trunk Engineering and Planning, Current Planning Transport Systems,
- Network Regulatory Interconnection, Network Regulatory Numbering, and Network
- 8 Operations Central Office Switching and Transport Equipment. During the 1996 1997
- 9 timeframe, I also served as one of the subject matter experts for network issues in
- 10 negotiations between SWBT and numerous CLECs relating to interconnection agreements
- under the Telecommunications Act of 1996 (Act).

Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

- 14 A. My testimony will address the Missouri interconnection negotiations with Brooks Fiber,
- specifically the network issues for which I was responsible in these negotiations, and the lack
- of any connection between the network issues negotiated with Brooks and Brooks' claim that
- 17 SWBT agreed to compensate Brooks for Internet Service Provider (ISP) traffic routed to
- Brooks' network. I will also respond to the claim that because Internet traffic may be carried
- over "local trunks", it should somehow be considered "local traffic" for compensation
- 20 purposes.

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22 O. HAVE YOU EVER TESTIFIED BEFORE THIS COMMISSION?

23 A. No.

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1	Q. V	WHAT ROLE DID YOU PLAY IN NEGOTIATING COMPENSATION RATES IN
2	T]	HE SWBT/BROOKS FIBER INTERCONNECTION NEGOTIATIONS?
3	A. Id	did not play any role in negotiating compensation rates with Brooks Fiber or any CLEC. As
4	a 1	network negotiator, my primary role in the Brooks Fiber Missouri negotiations was limited
5	to	addressing SWBT's requirement for CLECs to obtain a separate Central Office Code
6	(1)	NXX) for each end office that it desired to pass traffic to SWBT. This requirement was to
7	al	llow SWBT to route traffic utilizing 6-digit analysis (NPA-NXX). The ability to route
8	ut	tilizing 6-digit analysis was important to allow SWBT to maximize the efficiency of its
9	tr	unking network by allowing SWBT to direct-trunk to each Brooks office that had sufficient
10	te	erminating traffic.
11		
12	Q. H	IOW DOES THE ABILITY TO PERFORM 6-DIGIT ANALYSIS EFFECT THE
13	R	OUTING EFFICIENCY OF THE TRUNKING NETWORK?
14	A. V	When sufficient traffic is being passed between two end office switches, sufficient being at
15	le	east 24 trunks worth of traffic, it is more efficient to dedicate a trunking facility between the
16	tv	wo end office switches, rather than routing the call through the tandem switch. Provided a
17	se	eparate NPA-NXX is allocated to every end office switch, then the originating switch could
18	ro	oute this traffic over a direct trunk group, thereby bypassing unnecessary switching that
19	W	would be performed in the tandem switch.
20		
21	Q. V	WERE THERE SPECIFIC ISSUES ASSOCIATED TO BROOKS'
22	I	MPLEMENTATION OF CENTRAL OFFICE CODES (NXXs) THAT IMPACTED
23	S	SWRT'S ABILITY TO DIRECT TRUNK?

A. Yes. Due to their inability to obtain separate NXXs for each remote switch, Brooks intended to share telephone numbers within the same NXX across multiple remote switches. This would be accomplished by Brooks' switching equipment performing 7-digit analysis (NPA-NXX-X) and routing the call accordingly. This architecture combined with the deployment of a single NXX code negatively affected SWBT's ability to determine on which remote Brooks' customer was being served. Brooks' telephone number allocation resulted in SWBT's inability to utilize the direct end office trunking it had deployed, which was deployed for the sole purpose of routing the traffic to the appropriate end office. Brooks argued that even though Brooks caused SWBT's inability to route traffic to the appropriate remote, SWBT should nevertheless be charged "tandem-based" compensation for all SWBT traffic routed to Brooks. Because SWBT preferred direct trunking to each remote switch and Brooks' deployment of NXXs hindered SWBT ability to direct traffic to the appropriate office, both parties agreed that despite Brooks unusual network configuration, SWBT would compensate Brooks utilizing a ratio of 90% "end office" and 10% "tandem" for all local traffic terminating on Brooks' network.

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Q. WERE THERE SPECIFIC REQUIREMENTS AGREED TO BY BOTH PARTIES RELATING TO DETERMINING WHICH TRAFFIC WAS TO BE ROUTED OVER WHICH TRUNK GROUP?

A. Yes. In order to plan and engineer its trunking network on common terms, SWBT developed guidelines for determining when traffic should be delivered over "inter-LATA" trunk groups, versus "intra-LATA" trunk groups versus "local" trunk groups, as described in Appendix ITR (Interconnection Trunking Requirements). Appendix ITR did not address any compensation

issues, but did address the rules for routing traffic between companies. These routing rules were based on the rate centers assigned to the NPA-NXX of the originating number and the terminating number. In the negotiations, SWBT referenced the Local Exchange Tariff, which outlined the "Metropolitan Exchange Area" and all the exchanges/rate centers included in that area. The language agreed to by both parties in Appendix ITR outlined the following routing scenarios:

- 1) Calls originating from NXXs assigned outside the LATA and routing to a CLEC NXX assigned within the "Metropolitan Exchange" should be delivered over the "inter-LATA" trunk group. Calls originating with CLEC NXXs assigned inside the "Metropolitan Exchange" routing to NXXs assigned outside the LATA should be routed over the "inter-LATA" trunk group.
- 2) Calls originating from NXXs assigned outside the "Metropolitan Exchange", but within the LATA, and routing to a CLEC NXX assigned within the Metropolitan Exchange should be delivered over the "intra-LATA" trunk group. Calls originating with CLEC NXXs assigned within the "Metropolitan Exchange" routing to NXXs assigned outside the "Metropolitan Exchange", but within the LATA, should be routed over the "intra-LATA" trunk group.
- 3) Calls originating with SWBT NXXs assigned within the "Metropolitan Exchange" and routing to a CLEC NXX assigned within the "Metropolitan Exchange" should be delivered over the "local" trunk group. Calls originating with CLEC NXXs assigned within the "Metropolitan Exchange" and routing to a SWBT NXX assigned within the "Metropolitan Exchange" should be routed over the "local" trunk group.

1 Q. DO YOU AGREE WITH THE TESTIMONY OF THE CLECS IN THIS CASE THAT 2 BECAUSE INTERNET TRAFFIC MAY BE ROUTED TO BROOKS ON "LOCAL 3 TRUNKS", THAT THIS DETERMINES WHETHER RECIPROCAL LOCAL 4 COMPENSATION SHOULD APPLY TO THIS TRAFFIC? 5 A. No. These witnesses are misconstruing the language in Appendix ITR, and confusing trunking 6 requirements with unrelated compensation issues. As explained above, Appendix ITR describes the 7 routing of traffic, which is solely dependent on the originating and terminating NPA-NXX and what 8 rate center is assigned to those NPA-NXXs. This appendix in no way attempts to define traffic for 9 compensation purposes. In fact, there are scenarios whereby a SWBT customer may place a "local" 10 call to a Brooks end user, where the call is routed over the intraLATA trunk group and vice-versa. 11 12 For example, a SWBT end user in St. Charles may purchase Extended Area Service, which allows 13 that end user to make calls to the St. Louis exchange without any additional per minute charge (a 14 local call). Although considered local, that call originates from an SWBT NXX assigned outside 15 the Metropolitan Exchange and is routed to an NXX assigned within the Metropolitan Exchange, 16 which is therefore routed over the intraLATA trunk group – not the local trunk group. In addition, 17 the Local Exchange Tariff identifies that SWBT calls originating from an NXX assigned to 18 Chesterfield rate center have extended area service (EAS) if routing to the Creve Coeur zone of the St. Louis Metropolitan Exchange. The calls, although local from a billing perspective, may also 19 20 route over the intra-LATA trunk group. In summary, routing of traffic is not necessarily related to 21 the charges to the end user for the call, nor for inter-company compensation purposes.

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Q. DOES THIS CONCLUDE YOUR TESTIMONY?

A. Yes, at this time.