		ORIGINAL					
1		BELLSOUTH TELECOMMUNICATIONS, INC.					
2		DIRECT TESTIMONY OF GEORGE MAINER					
3	BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION						
4	DOCKET NOS. 980946-TL, 980947-TL, 980948-TL, 981011-TL,						
5	981012-TL AND 981250-TL						
6	APRIL 9, 1999						
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8							
9	Q.	PLEASE STATE YOUR NAME, COMPANY NAME AND ADDRESS.					
10							
11	А.	My name is George Mainer. I am employed by					
12		BellSouth Telecommunications, Inc. as Director -					
13		Network Operations, South Florida. My business					
14		address is Room 356, 600 N.W. 79 th Avenue, Miami,					
15		Florida 33126 .					
16							
17	Q.	PLEASE SUMMARIZE YOUR BACKGROUND AND EXPERIENCE.					
18							
19	А.	I graduated from Nova University with a Masters in					
20		Business Administration. I began employment with					
21		Southern Bell in 1973 as an Installer/Repairman. In					
22		1978, I was promoted to Installation Control Foreman.					
23		In 1986, I was promoted to Associate Manager, Network					
24		Operations Implementation State Staff. In 1989, I					
25		transferred to Systems Administration in the West					

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1 Palm Installation Management Center (IMC). In 1992, 2 I was loaned to the re-engineering team with the responsibilities of reviewing process flows in the 3 4 In 1994, I was promoted to Manager of the West IMC. Palm Work Management Center (WMC). 5 In 1996, I was assigned Manager - Central Office Operations in West 6 7 Palm Beach. In 1997, I transferred to Atlanta as an 8 Acting Director with the Network Solutions Group. On August 1, 1997, I transferred to Miami as Director, 9 Network Operations. In my current capacity, I have 10 11 central office responsibility for the Miami-Dade 12 County area. 13 14 Q. HAVE YOU TESTIFIED PREVIOUSLY? 15 16 A. I have not testified previously in any State No. 17 Public Service Commission proceedings. 18 **19** 0. WHAT IS THE PURPOSE OF YOUR TESTIMONY? 20 The purpose of my testimony is to address issues 21 A. related to operations and explain how the placement 22 23 of central office workstations are determined. I 24 will describe the specific location of workstations 25

in each of the six central offices in these
 proceedings.

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4 ISSUE 2: WHAT FACTORS SHOULD BE CONSIDERED BY THE 5 COMMISSION IN MAKING ITS DETERMINATION ON BELLSOUTH'S 6 PETITIONS FOR WAIVER AND TEMPORARY WAIVER OF THE 7 REQUIREMENT TO PROVIDE PHYSICAL COLLOCATION FOR THE 8 FOLLOWING CENTRAL OFFICES:

- 9
- 10 a) Daytona Beach Port Orange
- 11 b) Boca Raton Boca Teeca
- 12 c) Miami Palmetto
- 13 d) West Palm Beach Gardens
- 14 e) North Dade Golden Glades
- 15 f) Lake Mary
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17 Q. WHAT FACTORS ARE USED BY BELLSOUTH TO DETERMINE THE
18 NUMBER OF WORKSTATIONS THAT ARE PLACED IN A CENTRAL
19 OFFICE?

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21 A. There are many variables that affect the number of
22 workstations placed in a central office. As a
23 result, no definitive guidelines exist, but rather,
24 "rule of thumb" deployment strategies are utilized in
25 determining the placement of workstations. These

1 variables include, but are not limited to, the number 2 of employees, hours of staff coverage, physical size and makeup of office (multi-floor, widely spread out 3 4 work areas, etc.), number and size of switch(es), number of network elements, capacity of network 5 6 elements, office activities (provisioning, growth, 7 upgrades, etc.), special activities (i.e., an office 8 frequently used for "First Office Applications" or 9 field trials) and miscellaneous (i.e., an office used 10 for the concentration of testing or services such as 11 remote access for centers). Each central office's 12 specific monitoring, provisioning and staffing 13 requirements must be considered in the determination 14 of how many workstations should be placed by the 15 Operations Manager.

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17 Q. WHAT IS A WORKSTATION?

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19 A. Workstations can consist of dumb terminals, personal
20 computers (PCs), or specialized terminals that are
21 specific to vendor equipment. Most of these
22 terminals are equipped with specialized function
23 keys, which would not make them interchangeable.
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1 Q. HOW ARE THE NUMBER OF WORKSTATIONS NEEDED IN A2 CENTRAL OFFICE DETERMINED?

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4 A. The number of workstations placed in a central office 5 is determined by the types of equipment required to fulfill customer demands and the fact that central 6 7 offices evolve through growth, upgrades, and 8 rearrangements. Each one of these evolutions impact 9 workstation and printer requirements. Therefore, 10 while it is difficult to determine the exact number 11 of workstations and printers for a given office, some 12 bare minimum examples can be given, broken down by a 13 typical floor layout and the disciplines of a central 14 office.

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16 Q. DESCRIBE A TYPICAL FLOOR LAYOUT.

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Typically, a central office would have one 18 A. workstation for every two or three technicians. 19 In a 20 one-story, small central office with only a Local 21 switch, BellSouth would have a minimum of two terminals - one for the Electronic Technician and one 22 23 for the Frame Attendant in that office. As the 24 office grows and another type of switch and/or toll 25 equipment is added, a bare minimum of one terminal

would be required per vendor for that switch and/or
 toll equipment. Also, there would be one printer
 associated with each workstation.

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5 Q. WHAT ARE THE DISCIPLINES OF A CENTRAL OFFICE?

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7 A. The disciplines of a central office include: Switch, 8 Toll, Operating Systems, a Plug-In Receipt area, and a Frame area. The Digital Cross Connect (DCC) is a 9 subset of the Toll area. These areas are where the 10 11 bulk of the work is performed in a central office. The Switch discipline contains the equipment that 12 13 processes calls and interfaces with toll and the 14 local loop. There are different types of switches, including but not limited to, a Local switch which 15 16 serves the surrounding community, a Tandem switch 17 which interfaces with Local switches to transfer calls to another switch or out of the area, a Remote 18 19 switch which is served from one central office but is 20 physically located in another office, a Signal 21 Transfer Point (STP) switch which provides signaling 22 to Local switches in the area, and an Operator 23 Services switch which specializes in Operator 24 services traffic.

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Q. PLEASE DESCRIBE HOW THE LOCATION OF WORKSTATIONS AND
 PRINTERS IS DETERMINED BY BELLSOUTH.

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4 A. In a central office, workstations and printers are 5 synonymous. In almost all cases, a workstation has a dedicated printer associated with it. Depending on 6 what type of workstations they are connected to, 7 8 these printers are used for recording real-time data, issuing designs on circuits, printing work loads, 9 10 staffing and labor reports, daily customer index 11 reports, trouble tickets, provisioning data, etc. 12

As I stated earlier, workstations can consist of dumb 13 14 terminals, personal computers, or specialized terminals that are specific to vendor equipment. 15 16 Most of these terminals are equipped with specialized 17 function keys, which would not make them interchangeable. Some examples of specialized 18 19 workstations are those assigned to switches, digital 20 cross connect systems, Work Force 21 Administration/Dispatch In (WFA/DI - which is an 22 operating system used to perform provisioning and 23 maintenance of cable pair facilities and switch facilities), and documentation (CD-ROM based access). 24 25 Within a switch there are also specialized

1		workstations, like recent change terminals and						
2		terminals used for switch maintenance and						
3		provisioning.						
4								
5 Ç	2.	WHAT ARE THE MINIMUM REQUIREMENTS FOR SWITCH						
6		DISCIPLINE?						
7								
8 P	Α.	The minimum requirements for switch discipline are						
9		four to six workstations per switch, broken down as						
10		follows:						
11								
12		1 Recent change terminal located in the Frame						
13		area (used for provisioning switch features						
14		and performing maintenance)						
15		1 Recent change terminal located in the Switch						
16		area (used for provisioning switch features						
17		and performing maintenance)						
18		1 Recent change terminal located in the Toll						
19		area (used for provisioning switch features						
20		and performing maintenance)						
21		2 Main workstations located in the Switch area						
22		(used for performing maintenance, growth						
23		provisioning, and routines)						
24		1 Main workstation located in the Toll area						
25		(used for performing maintenance)						

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1 Again, depending on the variables of the central office, this number can vary. In large metropolitan 2 3 area switches, guite frequently, more than one activity is being performed on the switch at the same 4 time by multiple technicians. 5 6 7 WHAT ARE THE MINIMUM REQUIREMENTS FOR TOLL Ο. 8 DISCIPLINE? 9 **10** A. The minimum requirements for Toll discipline are as 11 follows: 12 13 1 Workstation located in the central part of the 14 Toll area (used for provisioning and performing maintenance activities associated 15 16 with toll switch) 1 Workstation for each Digital Cross Connect 17 System (used for placing digital cross 18 19 connects for provisioning and maintenance) 20 1 Laptop workstation for mobile use throughout 21 the Toll area (used for provisioning and 22 maintenance of various toll services) 23 WHAT ARE THE MINIMUM REQUIREMENTS FOR BELLSOUTH'S 24 Q. OPERATING SYSTEMS, SUCH AS COSMOS (Computer System 25

1 for Main Frame Operations Support Systems) AND WFA/DI 2 (Work Force Administration/Dispatch In)? 3 **4** A. The minimum requirements for BellSouth's operating 5 systems COSMOS and WFA/DI are: 6 7 1 WFA/DI terminal for every two employees (used to load work to employees, send and receive 8 9 tickets, and access various databases) 10 2 COSMOS terminals in the frame area, one at 11 each end (used for provisioning and performing 12 maintenance work involving cable and pair assignments to switch and toll equipment on 13 14 the frame) 15 1 COSMOS terminal in the Toll area (used for 16 provisioning and performing maintenance work 17 involving cable and pair assignments to switch 18 and toll equipment on the frame.) 19 1 COSMOS terminal in the Switch area (used for 20 the same as the one above.) 21 22 These numbers can vary due to the level of activity, 23 the location of all the disciplines, and the number 24 of employees. 25

1 0. WHAT IS THE MINIMUM REQUIREMENT FOR THE PLUG-IN 2 RECEIPT AREA? 3 **4** A. The minimum requirement for the Plug-In Receipt area 5 is: 6 7 1 Workstation (used for plug-in inventory) 8 9 Ο. WHAT VARIABLES EXIST IN THE NORTH DADE GOLDEN GLADES 10 CENTRAL OFFICE? 11 The North Dade Golden Glades central office has a 12 A. total of nine Network Technicians and one Network 13 14 Manager. These are all full-time employees dedicated 15 solely to this location. This is a two-story 16 building. The North Dade Golden Glades central 17 office has five switches: one Local, two Tandems, one 18 Operator Services, and one Signal Transfer Point 19 (STP). These switches are spread over two floors, 20 which requires workstation access to all switches on 21 both floors. Due to its tandem offices and central 22 location (on the Dade/Broward county line), the North 23 Dade Golden Glades central office contains numerous 24 fiber optic terminals for BellSouth and customer-25 owned rings, as well as two digital cross connect

systems. A third digital cross connect system is 1 currently being installed. Due to its growth, this 2 office has switch vendor technicians working full-3 time throughout most of the year performing equipment 4 installations. 5 6 BASED ON THE DEFINED VARIABLES NOTED ABOVE, PLEASE 7 0. DESCRIBE THE LOCATION OF WORKSTATIONS AND PRINTERS IN 8 THE NORTH DADE GOLDEN GLADES CENTRAL OFFICE. 9 10 The North Dade Golden Glades central office has the 11 A. following workstations and printers located as 12 13 follows: 14 1st Floor, Switch Area: 1 WFA/DI Terminal 15 2 Workstations used for 16 documentation and STP 17 access 18 3 Terminals used for STP 19 access 20 1 Portable Terminal used 21 for switch growth and 22 maintenance activity 23 4 Main terminals used to 24 access four DMS switches 25

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1						across the 1^{st} and 2^{nd}
2						floors, with each
3						terminal dedicated to a
4						specific switch
5					1	Main terminal used as a
6						duplicative terminal to
7						access the 04 Tandem DMS
8						switch.
9					4	Printers dedicated to
10						specific terminals
11						
12	2nd	Floor,	Switch	Area:	1	WFA/DI Terminal
13					2	Portable terminals used
14						for switch growth and
15						maintenance activities
16					1	Recent Change terminal
17					4	Main terminals for
18						maintenance and
19						provisioning of four
20						switches located on the
21						1^{st} and 2^{nd} floors of the
22						office, with each
23						terminal dedicated to a
24						specific switch
25						

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1		3	Main terminals used as
2			duplicative terminals to
3			access the four DMS
4			switches located on the
5			1 st and 2 nd floors
6		2	Main terminals used for
7			STP access
8		6	Printers dedicated to
9			specific terminals
10			
11	lst Floor, Toll Area:	2	WFA/DI terminals
12		6	Main terminals for access
13			to four switches,located
14			on the 1^{st} and 2^{nd} floors,
15			with each terminal
16			dedicated to a specific
17			switch
18		2	Terminals with access to
19			COSMOS
20		4	Printers dedicated to
21			specific terminals
22		1	Workstation for access to
23			Network Elements and
24			documentation
25			

1 1st Floor, Plug-In Area: 1 WFA/DI terminal 1 Workstation for access to 2 the plug-in inventory 3 Printers 2 4 5 1 WFA/DI terminal 1st Floor, Frame Area: 6 1 COSMOS Terminal 7 8 1 Recent Change Terminal 9 2 Printers 10 11 1st Floor, DCC area: 3 Terminals 3 Printers dedicated to 12 specific terminals 13 14 WHAT VARIABLES EXIST IN THE MIAMI PALMETTO CENTRAL **15** O. 16 OFFICE? 17 The Miami Palmetto central office has a total of 18 A. 19 twelve (12) Network Technicians and one (1) Network 20 Manager. These are full-time employees dedicated 21 solely to this location. This is a one-story building. This office consists of one Local switch 22 and one Remote switch. The Remote switch is served 23 24 out of the Airport central office (across the street 25 from the Miami International Airport). The Miami

Palmetto central office has five digital cross 1 connect systems, with a sixth being currently 2 installed. This office serves primarily business 3 customers (90%) and has an abundance of special 4 circuits served over digital loop carrier systems. 5 It has been experiencing significant digital loop 6 carrier growth. Due to this growth, the Miami 7 Palmetto central office has a specialized digital 8 loop carrier area. This office also serves as a 9 testing hub to other offices for our centers. This 10 necessitates an extraordinary amount of testing 11 assistance from the digital cross connect system 12 13 areas. 14

15 Q. BASED ON THE DEFINED VARIABLES NOTED ABOVE, PLEASE
16 DESCRIBE THE LOCATION OF WORKSTATIONS AND PRINTERS IN
17 THE MIAMI PALMETTO CENTRAL OFFICE.

18

19 A. The Miami Palmetto central office has the following20 workstations and printers located as follows:

21

Local Switch Area: 1 WFA/DI Terminal
Recent Change terminal
MLT (Mechanized Loop
Testing) terminal

1		1	Switch workstation for
2			access and documentation
3		2	Switch terminals
4		6	Printers dedicated to
5			specific terminals
6			
7	Remote Switch Area:	1	Terminal to access remote
8			switch
9		1	Printer
10			
11	Dig. Loop Carrier Area:	1	Recent Change terminal
12		1	Terminal used for switch
13			access on digital carrier
14			systems, carrier status
15			and administration
16		1	Terminal used for digital
17			loop carrier and trunk
18			provisioning
19		3	Printers dedicated to
20			terminals
21			
22	Main Toll Area:	2	WFA/DI terminals
23		1	COSMOS terminal
24		1	Workstation used for
25			Network Element access

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and documentation 1 2 Plug-In Receipt Area: 1 Workstation for access to 3 plug-in inventory 4 1 Printer 5 6 2 WFA/DI terminals 7 Frame Area: 2 Recent Change Terminals 8 Terminal for access to 1 9 remote switch 10 2 COSMOS terminals 11 5 Printers dedicated to 12 specific terminals 13 14 5 Terminals used for access DCC Areas: 15 to five digital cross 16 connect systems 17 1 Terminal for switch 18 19 access 1 Workstation for Network 20 Element access 21 6 Printers dedicated to 22 specific terminals 23 24 25

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1 Q. WHAT VARIABLES EXIST IN THE WEST PALM BEACH GARDENS2 CENTRAL OFFICE?

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4 A. The West Palm Beach Gardens Central Office has eight 5 (8) Network Technicians and one (1) Network Manager. 6 These are full-time employees dedicated solely to this location. This central office is a one-story 7 8 building and has nine (9) different switches: one 9 DMS100 Local switch, one DMS200 Tandem switch for 10 toll service, one DMS200 TOPS switch for the state, 11 one STP (Signal Transfer Point), one Lucent Star 12 Server SCP (Service Control Point), and four Lucent 13 Advantage SCPs. BellSouth has planned two (2) 14 additional SCP switches. All of these switches 15 reside in the same building and each has an array of 16 peripheral terminals and printers. The West Palm 17 Beach Gardens central office has numerous fiber optic 18 BellSouth terminals and several customer owned rings, 19 as well as, two (2) Digital Cross Connect Systems 20 under growth at this time. Due to this growth, there 21 is constant vendor presence with technicians working 22 full-time.

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1	Q.	BASED ON THE DEFINED VAR	IAE	LES NOTED ABOVE, PLEASE
2		DESCRIBE THE LOCATION OF	' WC	RKSTATIONS AND PRINTERS IN
3		THE WEST PALM BEACH GARD	ENS	CENTRAL OFFICE.
4				
5	Α.	The West Palm Beach Gard	lens	central office has the
6		following workstations a	Ind	printers located as
7		follows:		
8				
9		Switch Area:	3	Workstations used for
10				Operator services
11			3	Workstations used for the
12				STP switch
13			10	Workstations used for the
14				five (5) SCP switches
15			3	Workstations used for the
16				Local switch
17			3	Workstations used for the
18				Toll switch
19			1	WFA/DI terminal
20			20	Printers
21				
22		Toll Area:	1	WFA/DI workstation
23			1	Workstation for the DISC
24				and Litespan systems.
25				

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1 3 Laptop PCs used for 2 provisioning and testing 3 COSMOS workstation 1 4 3 Printers 5 Frame Area: 1 WFA/DI workstation 6 2 COSMOS workstations 7 8 Plug-In Area: 1 Workstation used for 9 plug-in inventory 10 1 Printer 11 12 DCC Area: 3 Workstations 13 14 0. WHAT VARIABLES EXIST IN THE BOCA RATON BOCA TEECA 15 CENTRAL OFFICE? 16 17 A. The Boca Raton Boca Teeca central office has a total 18 of six (6) Network Technicians and one (1) Network 19 Manager. These are all full-time employees dedicated 20 solely to this location. This is a two-story 21 building. The first floor consists of one Local switch and two Remote switches. The Remote switches 22 23 are hosted by the Boca Raton Main switch. The Boca Raton Boca Teeca central office has two digital cross 24 connect systems. This office serves primarily 25

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1 business customers and contains numerous fiber optic 2 terminals and BellSouth customer owned rings. Due to 3 the demands for growth, the office has switch and 4 transport vendor technicians working throughout most of the year performing equipment installations. 5 The 6 second floor is utilized by an engineering group. 7 8 Q. BASED ON THE DEFINED VARIABLES NOTED ABOVE, PLEASE 9 DESCRIBE THE LOCATION OF WORKSTATIONS AND PRINTERS IN 10 THE BOCA RATON BOCA TEECA CENTRAL OFFICE. 11 12 A. The Boca Raton Boca Teeca central office has the 13 following workstations and printers located as 14 follows: 15 3 Workstations used to 16 Switch Area: 17 access the direct access 18 into the switches 19 1 Remote Monitoring 20 terminal 21 3 Printers 22 23 Toll/Frame Area: 2 COSMOS Terminals 24 1 WFA/DI Workstation 25 Workstation for 1

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1 provisioning and 2 maintenance 3 3 Printers 4 5 Toll Area: WFA/DI Workstations 3 6 1 Workstation used for plug-in inventory 7 8 2 DCC workstations 9 6 Printers 10 WHAT VARIABLES EXIST IN THE DAYTONA BEACH PORT ORANGE 11 0. 12 CENTRAL OFFICE? 13 14 A. The Daytona Beach Port Orange central office has a total of five (5) Network Technicians. These are 15 16 full-time employees that are dedicated to this 17 location, in addition to the Daytona Beach Fentress Remote switch (as necessary). This is a single story 18 19 building. This office contains one DMS100/200 switch, which provides local, as well as LATA Tandem 20 21 service requirements. The Daytona Beach Fentress 22 remote switch is hosted by the Daytona Beach Port 23 Orange central office. The Daytona Beach Port Orange 24 central office has two (2) digital cross connect 25 systems. This office serves a mix of residential and

1 business customers and has an abundance of special 2 circuits served over digital loop carrier systems, as 3 well as copper cable facilities. It has historically experienced significant digital loop carrier growth. 4 5 6 Q. BASED ON THE DEFINED VARIABLES NOTED ABOVE, PLEASE 7 DESCRIBE THE LOCATION OF WORKSTATIONS AND PRINTERS IN 8 THE DAYTONA BEACH PORT ORANGE CENTRAL OFFICE. 9 10 A. The Daytona Beach Port Orange central office has the 11 following workstations and printers located as 12 follows: 13 14 Local Switch Area: 1 WFA/DI terminal 15 6 Switch terminals 16 4 Printers 17 18 Toll Area: 1 WFA/DI terminal 19 1 Printer 20 21 Plug-In Receipt Area: 1 Workstation for plug-in 22 inventory 23 1 Printer 24 25 Frame Area: 1 COSMOS Terminal

1 Recent Change Terminal 1 Printers 2 2 3 DCC Area: 2 Terminals used for access 4 5 to two digital cross 6 connect systems 7 Printers 2 8 WHAT VARIABLES EXIST IN THE LAKE MARY CENTRAL OFFICE? 9 Ο. 10 **11** A. The Lake Mary central office has a total of two 12 Network Technicians. They are full-time employees 13 and are dedicated solely to this location. The Lake 14 Mary central office is a one-story building. It has 15 one DMS100 switch providing local service. The 16 switch covers a portion of the floor area, with two 17 fixed workstations and one portable workstation used 18 to access the switch. The Lake Mary central office 19 contains numerous fiber optic terminals for BellSouth 20 and customer owned rings, as well as two digital 21 cross connect systems. Due to the growth in the 22 central office, switch vendor technicians work 23 throughout the year performing equipment 24 installations.

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1 Q. BASED ON THE DEFINED VARIABLES NOTED ABOVE, PLEASE DESCRIBE THE LOCATION OF WORKSTATIONS AND PRINTERS IN 2 3 THE LAKE MARY CENTRAL OFFICE. 4 The Lake Mary central office has the following 5 A. 6 workstations and printers located as follows: 7 1st Floor, Switch Area: 1 Trunk Test Panel (TTP) 8 9 terminal 10 1 Maintenance 11 Administration Position 12 (MAP) terminal 13 2 Remote Test Interface 14 terminals 15 1 WFA/DI terminal 16 1 MaxiTold Terminal 17 1 Workstation used for 18 provisioning and 19 maintenance 20 1 PC used for LAN interface 21 5 Printers 22 1st Floor, Frame Area: 1 COSMOS terminal 23 24 1 Printer 25

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1st Floor, Plug-In Area: 1 Remote MAP terminal 1 1 WFA/DI terminal 2 1 Plug-In terminal for 3 inventory 4 Printer 5 1 6 1st Floor, Toll Area: 3 Terminals for 7 provisioning and 8 maintenance 9 10 2 Terminals for digital 11 cross connect Printers 12 4 13 BASED ON YOUR ASSESSMENT OF THESE SIX CENTRAL 14 0. OFFICES, ARE ALL OF THE WORKSTATIONS AND PRINTERS 15 NECESSARY TO PERFORM THE REQUIRED JOB FUNCTIONS? IF 16 17 SO, PLEASE EXPLAIN. 18 In order to operate at the most efficient level, the **19** A. answer is yes. One can always make do with less 20 21 terminals and/or printers, but it places additional strain on efficiency when you have technicians 22 waiting to use a terminal and/or printer in order to 23 work on a problem. This can delay the remedy of 24 25 customer trouble reports. During switch upgrades, a

terminal is constantly in use for weeks at a time, which means that another terminal would have to be available for use by the technicians. Having less terminals and printers means that an employee in a particular discipline (toll, frame, or switch) may have to go to another part of the building or floor to perform his/her job functions. This reduces the operational efficiency of the office and could result in unnecessary delays to resolve customer and/or network troubles. Q. DOES THIS CONCLUDE YOUR TESTIMONY? 15 A. Yes, it does.