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BELLSOUTH TELECOMMUNICATIONS, INC.
DIRECT TESTIMONY OF W. KEITH MILNER
BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
DOCKET NOS. 980946-TL, 980947-TL, 980948-TL, 981011-TL,
981012-TL AND 981250-TL

APRIL 9, 1999

Q. PLEASE STATE YOUR NAME, ADDRESS, AND POSITION WITH
BELLSOUTH TELECOMMUNICATIONS, INC.

A. My name is W. Keith Milner. My business address is 675
West Peachtree Street, Atlanta, Georgia 30375. I am
Senior Director - Interconnection Services for
BellSouth Telecommunications, Inc. ("BellSouth"). I
have served in my present role since February 1996 and
have been involved with the management of certain
issues related to local interconnection, resale and
unbundling.

Q. PLEASE SUMMARIZE YOUR BACKGROUND AND EXPERIENCE.

A. My business career spans over 28 years and includes
responsibilities in the areas of network planning,
engineering, training, administration and operations.

1 I have held positions of responsibility with a local
2 exchange telephone company, a long distance company and
3 a research and development laboratory. I have
4 extensive experience in all phases of
5 telecommunications network planning, deployment and
6 operation (including research and development) in both
7 the domestic and international arenas.

8
9 I graduated from Fayetteville Technical Institute in
10 Fayetteville, North Carolina in 1970 with an Associate
11 of Applied Science in Business Administration degree.
12 I also graduated from Georgia State University in 1992
13 with a Master of Business Administration degree.

14
15 Q. HAVE YOU TESTIFIED PREVIOUSLY BEFORE ANY STATE PUBLIC
16 SERVICE COMMISSION? IF SO, BRIEFLY DESCRIBE THE SUBJECT
17 OF YOUR TESTIMONY.

18
19 A. I testified before the state Public Service Commissions
20 in Alabama, Florida, Georgia, Kentucky, Louisiana,
21 Mississippi and South Carolina, the Tennessee
22 Regulatory Authority and the Utilities Commission in
23 North Carolina on the issues of technical capabilities
24 of the switching and facilities network regarding the
25 introduction of new service offerings, expanded calling

1 areas, unbundling and network interconnection.

2

3 Q. PLEASE DESCRIBE THE PURPOSE AND ORGANIZATION OF YOUR
4 TESTIMONY BEING FILED TODAY?

5

6 A. My testimony is arranged into three main sections.
7 First, I will address issues resulting from BellSouth's
8 Petitions for Waiver and Temporary Waiver from the
9 physical collocation requirements as set forth in the
10 Telecommunications Act of 1996 (Act) and the Federal
11 Communication Commission's (FCC) First Report and
12 Order, FCC Order 96-325 and First Report and Order and
13 Further Notice of Proposed Rulemaking, FCC Order 99-48.
14 Second, I will address issues raised by parties and
15 Commission staff identified in this proceeding
16 (specifically, Issues 1,2,5 and 6) as well as discuss
17 BellSouth's efforts to have building code officials
18 approve BellSouth's requests for permits to build "wire
19 mesh cages" to serve as enclosed physical collocation
20 arrangements. Third, I will provide an overview of the
21 testimony of the other BellSouth witnesses and explain
22 each of their roles in the collocation process.

23

24 ***Issues resulting from BellSouth's Petitions for Waiver***
25 ***and Temporary Waiver from the physical collocation***

1 *requirements as set forth in the Telecommunications Act*
2 *of 1996 (Act) and the Federal Communication*
3 *Commission's (FCC) First Report and Order, FCC Order*
4 *96-325 and First Report and Order and Further Notice of*
5 *Proposed Rulemaking, FCC Order 99-48.*

6
7 Q. WHAT IS BELLSOUTH'S BASIC POSITION REGARDING THE ISSUES
8 DISCUSSED BETWEEN BELLSOUTH AND PARTIES OF RECORD IN
9 THIS PROCEEDING REGARDING COLLOCATION?

10
11 A. Because the overall purpose of the 1996 Act is to open
12 telecommunications markets to competition, facilities,
13 such as collocation, are available as a result of the
14 obligations imposed upon BellSouth under Sections 251
15 and 252 and as a result of this Commission's orders in
16 the arbitration proceedings between BellSouth and
17 certain Alternative Local Exchange Carriers (ALECs).
18 BellSouth has worked in good faith to fulfill its
19 obligations. BellSouth has provided 51 physical
20 collocation arrangements and 85 virtual collocation
21 arrangements to ALECs in Florida, all of them in a non-
22 discriminatory fashion by following consistent and
23 well-established policies. Contrary to any assertion
24 by ALECs, BellSouth's treatment of ALECs' collocation
25 requests has been nondiscriminatory and consistent with

1 all state and federal rules and regulations. BellSouth
2 stands ready to provide all of the items in both its
3 interconnection agreements and collocation agreements
4 with ALECs.

5
6 Q. PLEASE SUMMARIZE THE COLLOCATION REQUIREMENTS PLACED ON
7 INCUMBENT LOCAL EXCHANGE CARRIERS ("ILECs") BY THE
8 TELECOMMUNICATIONS ACT OF 1996 ("ACT") AND BY THE
9 FEDERAL COMMUNICATIONS COMMISSION IN ITS FIRST REPORT
10 AND ORDER FCC 96-325, ISSUED AUGUST 8, 1996.

11
12 A. Section 251(c)(6) of the Act establishes "The duty to
13 provide, on rates, terms, and conditions that are just,
14 reasonable, and nondiscriminatory, for physical
15 collocation of equipment necessary for interconnection
16 or access to unbundled network elements at the premises
17 of the local exchange carrier, except that the carrier
18 may provide for virtual collocation if the local
19 exchange carrier demonstrates to the State commission
20 that physical collocation is not practical for
21 technical reasons or because of space limitations.
22 Paragraphs 555 through 607 of the FCC's First Report
23 and Order 96-325 provide the FCC's discussion of the
24 background, discussion, and conclusions reached
25 regarding collocation.

1

2 Q. PLEASE SUMMARIZE THE COLLOCATION REQUIREMENTS THE FCC
3 PLACED ON INCUMBENT LOCAL EXCHANGE CARRIERS ("ILECs")
4 IN ITS RECENT ORDER FCC 99-48 ISSUED MARCH 31, 1999.

5

6 A. In its recently issued order, the FCC placed new
7 requirements on incumbent LECs. These new requirements
8 include the following:

9

1. Permit shared cage collocation.

10

2. Permit "cageless" collocation as that term is
11 defined in the FCC's recent Order.

11

12

3. When space is not available for physical
13 collocation, permit collocation in adjacent
14 Controlled Environment Vaults (CEVs) and similar
15 structures.

13

14

15

16

4. Permit collocation of all types of equipment
17 required for interconnection or access to unbundled
18 network elements (UNEs).

17

18

19

5. Permit requesting parties to tour central offices
20 after having been informed that space is not
21 available to accommodate requests for physical
22 collocation.

20

21

22

23

6. Provide lists of central offices within which no
24 space is available for physical collocation.

24

25

7. Remove obsolete, unused equipment in order to

- 1 accommodate requests for physical collocation.
- 2 8. Permit a collocator access to its equipment without
3 the need for a security escort.
- 4 9. Permit a collocator direct access to its equipment
5 without the requirement for a physical separation
6 between the collocator's equipment and the
7 equipment of other collocators or the equipment of
8 the ILEC.
- 9 10. Permit collocators to place as little as a single
10 rack of equipment in its collocation arrangement.
- 11 11. Permit any other collocation arrangement that has
12 been made available by another ILEC unless the ILEC
13 rebuts before the State commission the presumption
14 that such an arrangement is technically infeasible.

15

16 BellSouth is analyzing the FCC's recent Order but knows
17 that the Order will have some impact on this
18 proceeding. The following paragraphs discuss instances
19 where BellSouth's policies are consistent with the
20 requirements of the FCC's recent Order, as well as
21 outline areas of the FCC's Order with which BellSouth
22 is concerned.

23

24 Q. DOES BELLSOUTH OFFER SHARING OF COLLOCATION CAGES
25 BETWEEN TWO OR MORE CARRIERS?

1 A. Yes. Even before the FCC issued its recent Order,
2 BellSouth's policy was to allow the sharing of
3 collocation arrangements between two or more carriers
4 in those cases where space is unavailable for physical
5 collocation. The FCC's Order would apparently go
6 beyond BellSouth's offer and require sharing of
7 collocation "cages" without the precondition of a space
8 exhaust situation.

9

10 Q. WHAT IS MEANT BY THE TERM "CAGELESS" COLLOCATION?

11

12 A. The FCC's recent Order does not specifically define
13 "cageless" collocation. In paragraph 42, however, it
14 may be implied that what the FCC refers to as
15 "cageless" collocation is met by the requirement that
16 "incumbent LECs must allow competitors to collocate in
17 any unused space in the incumbent LEC's premises,
18 without requiring the construction of a room, cage, or
19 similar structure, and without requiring the creation
20 of a separate entrance to the competitor's collocation
21 space." While there is no industry accepted definition
22 of this term, heretofore BellSouth has used the term
23 "cageless" collocation to mean a physical collocation
24 arrangement that is not separated by walls or other
25 structures from the physical collocation arrangements

1 of other collocators, but is separated by a wall or
2 similar structure from BellSouth's equipment within the
3 BellSouth central office. BellSouth also uses the term
4 "unenclosed physical collocation arrangement" to
5 describe this same arrangement.

6
7 Q. DOES BELLSOUTH PROVIDE CAGELESS COLLOCATION AND, IF SO,
8 WHAT TYPES OF CAGELESS COLLOCATION DOES BELLSOUTH
9 PROVIDE?

10
11 A. Yes. Consistent with BellSouth's use of the term
12 "cageless" collocation, where local building code
13 permits the placement of unenclosed arrangements, these
14 unenclosed arrangements will be located in the area
15 designated for physical collocation within the
16 BellSouth premises. A collocator may designate a
17 specific amount of unenclosed space, provided that such
18 designation is adequate to accommodate the requested
19 equipment installation per industry standards.
20 Alternatively, if a square footage amount is not
21 designated, floor space will be assigned to accommodate
22 for wiring and maintenance aisle space based on the
23 shadow print of the equipment and racking plus a factor
24 of 2.5 times the shadow print. This factor equates to
25 one-half of the width for industry standard forward and

1 rear wiring aisle space required for an equipment bay.
2 There is no minimum square footage requirement for
3 unenclosed collocation space, which allows the
4 collocator to request only the amount of space required
5 for its equipment.

6

7 Q. DOES BELLSOUTH BELIEVE THERE ARE MINIMUM SIZE
8 REQUIREMENTS FOR ENCLOSED ("CAGED") COLLOCATION
9 ARRANGEMENTS?

10

11 A. Yes. The applicable building codes and safety codes
12 establish the effective minimum square footage that
13 must be provided in enclosed collocation arrangements
14 in addition to the floor space "footprint" of the
15 collocated equipment itself. BellSouth's policy
16 heretofore has been that enclosed physical collocation
17 arrangements must be at least 100 square feet. This
18 policy was based on the belief that a physical
19 collocation arrangement of 100 square feet would result
20 in conformance with applicable building codes and
21 safety codes. The FCC apparently believes that
22 enclosed physical collocation arrangements of less than
23 100 square feet may still result in conformance with
24 applicable building codes and safety codes.

25

1 Based on requests for physical collocation received to
2 date, BellSouth has identified certain locations where
3 the code officials have insisted on fire-rated walls
4 separating individual arrangements. For example, fire-
5 rated walls are required in most South Florida LATA
6 offices requested to date and most Southeast Florida
7 LATA offices requested to date. BellSouth has
8 proactively worked with local code officials throughout
9 its region to overcome building code restrictions
10 regarding the construction of physical collocation
11 space.

12
13 Q. DO YOU BELIEVE THAT THE FCC'S RULES IN ITS RECENT ORDER
14 CREATE A POTENTIAL CONFLICT WITH STATE OR LOCAL
15 BUILDING CODE ORDINANCES?

16
17 A. Yes. I do not expect all code officials to be
18 completely familiar with the FCC's requirements
19 pertaining to physical collocation. In the day-to-day
20 permit request and approval process, BellSouth cannot
21 commence certain construction work within its central
22 offices without first acquiring the necessary permits.
23 While code officials at the state and local levels are
24 implementing the FCC's rules, I am concerned that
25 delays may be experienced as BellSouth requests

1 necessary permits. While I am not a lawyer, I am aware
2 that the doctrine of preemption may ultimately result
3 in the FCC's rules taking precedence over any
4 conflicting state or local ordinances; however, I
5 believe it will take some time for any resulting
6 conflicts to be resolved. Further, the FCC cannot
7 expect BellSouth to knowingly violate applicable
8 building and safety codes and code officials cannot
9 expect BellSouth to knowingly violate applicable FCC
10 rules.

11
12 Q. HAS BELLSOUTH ENCOUNTERED PROBLEMS IN PROVIDING
13 COLLOCATION SPACE DUE TO BUILDING CODE REQUIREMENTS?

14
15 A. Yes. A major problem in providing space has been the
16 interpretation by code officials of collocation space
17 as "multi-tenant" occupancy. Because of this
18 interpretation, BellSouth has been required to provide
19 fire-rated walls between collocators, even those
20 requesting unenclosed space. Additionally, the fire-
21 rated wall requirement does not allow BellSouth to
22 provide wire cage enclosures.

23
24 Q. WHAT ACTIONS HAS BELLSOUTH TAKEN TO ALLEVIATE THE
25 PROBLEMS CAUSED BY THE MULTI-TENANCY INTERPRETATION

1 THAT REQUIRES FIRE-RATED WALL CONSTRUCTION?

2
3 A. At BellSouth's request, Telcordia Technologies
4 (formerly known as Bell Communications Research or
5 Bellcore) wrote a letter to the Southern Building Code
6 Congress International (SBCCI). In the letter,
7 Telcordia asked for support of BellSouth's position
8 that the spaces should be treated as areas of "like"
9 equipment, and that they should not require fire-rated
10 walls. The response from the SBCCI supported
11 BellSouth's position. However, the reply also
12 cautioned that the code official is the final authority
13 on these issues. A copy of the letter from Telcordia
14 to the SBCCI, and also the response from the SBCCI are
15 attached as exhibit WKM-1.

16
17 Since receiving the favorable letter from the SBCCI,
18 BellSouth and its architects have visited the code
19 authorities in numerous municipalities requesting
20 approval to construct wire cage enclosures instead of
21 fire-rated walls. After discussing the contents of the
22 SBCCI correspondence to the various authorities,
23 tentative verbal approval to utilize the wire cage
24 construction was granted by the majority of the
25 jurisdictions. Discussions have been held with both

1 the Fire Marshall and the Building Code Department at
2 Dade County and the Building Code Department at Broward
3 County. Both jurisdictions have given tentative verbal
4 approval. The Fire Marshall and the Building Code
5 Department in the City of Sunrise also gave tentative
6 verbal approval. The City of Plantation, both the Fire
7 Marshall and the Building Code Official, advised that
8 they will be requiring fire-rated separation between
9 all collocations, including those requesting non-
10 enclosed space. The issue has been discussed with the
11 Boca Raton officials, but they have not yet indicated
12 their intentions.

13

14 Once several code official approvals were granted,
15 BellSouth developed a wire cage specification utilizing
16 welded wire panels. This material provides grounding
17 capabilities that are far superior to chain link fence
18 material.

19

20 Q. WHAT ARE SOME OF THE ANTICIPATED PROBLEMS THAT
21 BELLSOUTH ANTICIPATES IN RECEIVING PERMITS FOR THE WIRE
22 CAGE ENCLOSURES?

23

24 A. One obvious problem is that some code authorities may
25 continue to require fire-rated separations. As

1 mentioned previously, the officials at the City of
2 Plantation advised, after BellSouth's discussion of the
3 support by the SBCCI and other area code officials,
4 that the City of Plantation will require fire-rated
5 separation between all collocators, including those
6 requesting unenclosed space. An additional concern is
7 that the fire code officials under the NFPA 101 life
8 safety code may continue to require fire-rated
9 ingress/egress to and from the collocation space. Such
10 rated ingress/egress was required in the Cypress
11 central office and the Fort Lauderdale Main Relief
12 central office. At the Cypress central office, a rated
13 corridor had to be constructed through the equipment
14 room. This construction was difficult because it had
15 to be constructed beneath the cable racking. The
16 corridor had to be constructed in such a way that
17 BellSouth's technicians and the collocator's
18 technicians, could have future safe access to the
19 cables. In the Fort Lauderdale Main Relief central
20 office, a new rated corridor was constructed through
21 the equipment room to the side of the building. At the
22 side of the building, a new door was cut through the
23 concrete panels of the exterior wall. Because the
24 doorway was above grade, a ramp had to be constructed
25 for egress from the building. Additionally, NFPA 101

1 requires rated separation between different
2 occupancies, such as between equipment occupancies and
3 administrative office space.

4
5 Q. WHERE HAS BELLSOUTH OBTAINED BUILDING PERMITS FOR WIRE
6 CAGE ENCLOSURES?

7
8 A. A building permit that includes wire cage construction
9 was obtained for the construction at BellSouth's Coral
10 Ridge central office (in South Florida) on March 17,
11 1999. Additionally, permits covering cage construction
12 were granted for the Jacksonville-Clay central office
13 on March 17, 1999, and for the Orlando-Colonial central
14 office on March 23, 1999.

15
16 Q. WHAT IS THE STATUS OF BELLSOUTH'S EFFORTS REGARDING
17 APPROVALS OF THE WIRE CAGE ENCLOSURE?

18
19 A. BellSouth has directed that their architects request
20 approval of wire cage enclosures for all new physical
21 collocation requests. In instances where the code
22 officials do not approve future requests for wire cage
23 enclosures, the architect has been directed to arrange
24 a meeting with BellSouth and the code authority to
25 discuss the SBCCI letter, and other jurisdictions that

1 have approved the wire cage. It is believed that
2 successes in some jurisdictions will help gain
3 approvals from other code authorities.

4
5 Q. WHAT IS A "CEV"?

6
7 A. The term "CEV" stands for Controlled Environment Vault.
8 It is a separate, stand-alone structure containing
9 equipment to regulate the "environment" within it such
10 as air temperature. The CEV, in some cases, is buried
11 with an entryway at ground level for ingress and
12 egress. In this context, the CEV is used to house
13 telecommunications equipment outside a central office
14 building. It is called a vault because it is often
15 constructed of steel reinforced, poured concrete wall,
16 floor, and ceiling members.

17
18 Q. WHAT IS BELLSOUTH'S POLICY REGARDING COLLOCATION IN
19 ADJACENT CEVs AND SIMILAR STRUCTURES IN CASES WHERE
20 SPACE IS NOT AVAILABLE FOR PHYSICAL COLLOCATION?

21
22 A. BellSouth's policy heretofore has been to not allow
23 collocators to construct or otherwise procure CEVs and
24 similar structures on BellSouth's property. The FCC's
25 rules would apparently require BellSouth to accommodate

1 such a request to the extent technically feasible.

2
3 Q. IS IT YOUR OPINION THAT THE FCC'S RECENT RULES
4 PERMITTING THE PLACEMENT OF ADJACENT CEVS OR SIMILAR
5 STRUCTURES HAS CHANGED THE FCC'S DEFINITION OF THE TERM
6 "PREMISES"?

7
8 A. No. First of all, the Telecommunications Act of 1996
9 does not provide a definition for the term "premises",
10 nor is the term discussed in the legislative history.
11 In the FCC's Order 96-325, the FCC defined the term
12 "premises" as follows:

13 "We therefore interpret the term 'premises'
14 broadly to include LEC central offices, serving
15 wire centers and tandem offices, as well as all
16 buildings or similar structures owned or leased by
17 the incumbent LEC that house LEC network
18 facilities. We also treat as incumbent LEC
19 premises any structures that house LEC network
20 facilities on public rights-of-way, such as vaults
21 containing loop concentrators or similar
22 structures." [Paragraph 573]

23
24 Further, I believe that if the FCC intended to broaden
25 its definition further, it could have done so in its

1 recent Order. It did not do so, instead the FCC would
2 permit "the new entrant to construct or otherwise
3 procure such an adjacent structure, subject only to
4 reasonable safety and maintenance requirements."
5

6 Q. DO ADJACENT CEVs OR SIMILAR STRUCTURES FIT THE FCC'S
7 DEFINITION OF THE TERM "PREMISES"?

8
9 A. No. The FCC's definition of adjacent CEVs and similar
10 structures is inconsistent with its own definition of
11 "premises" and the Act's requirement for collocation
12 within BellSouth's premises. This is because the
13 resulting structure, whether constructed by the
14 collocator or otherwise procured, would not be owned by
15 BellSouth and thus would not fit the definition of
16 being any one of the types of structures named in the
17 FCC's definition; specifically, "LEC central offices,
18 serving wire centers and tandem offices, as well as all
19 buildings or similar structures owned or leased by the
20 incumbent LEC that house LEC network facilities."
21 Further, the resultant structure constructed or
22 otherwise procured by the collocator (that is, the
23 adjacent CEV or similar structure) would not fit the
24 FCC's definition because it would not house BellSouth's
25 "network facilities." To summarize, the FCC's

1 requirement for adjacent CEVs and similar structures is
2 inconsistent with the requirements of the Act that
3 BellSouth provide collocation at its premises because
4 adjacent CEVs and similar structures are not
5 BellSouth's premises and the equipment housed within
6 the adjacent CEV or similar structure is not part of
7 BellSouth's network facilities.

8
9 Q. HAVE OTHER PARTIES SOUGHT TO FURTHER BROADEN THE FCC'S
10 DEFINITION OF THE TERM "PREMISES"?

11
12 A. Apparently so. Some parties have suggested that
13 buildings that house BellSouth's administrative or
14 other support personnel and which are on parcels of
15 land adjacent to or near BellSouth's central offices
16 should likewise be considered "premises" under the
17 FCC's definition. Since these buildings do not house
18 network facilities (that is, switches or transmission
19 equipment, for example), they are not subject to
20 requirements for collocation.

21
22 Q. THE FCC'S RULES REQUIRE THAT INCUMBENT LECs ALLOW ALL
23 EQUIPMENT USED FOR INTERCONNECTION OR ACCESS TO UNES TO
24 BE COLLOCATED. WHAT TYPE OF EQUIPMENT DOES THE FCC'S
25 RECENT ORDER SPECIFICALLY REQUIRE?

1 A. Paragraph 28 of the FCC's March 31, 1999 Order requires
2 the collocation of Digital Subscriber Line Access
3 Multiplexers (DSLAMs), routers, Asynchronous Transfer
4 Mode (ATM) multiplexers, and Remote Switching Modules.
5 BellSouth had heretofore allowed collocation of all of
6 these equipment types plus "stand-alone" switching
7 equipment. Given that the FCC's Order in paragraph 30
8 does not require collocation of equipment used solely
9 to provide enhanced services, BellSouth believes it is
10 already in compliance with the FCC's requirements.

11

12 Q. DOES BELLSOUTH ACCOMMODATE TOURS OF CENTRAL OFFICES IN
13 WHICH A REQUESTING PARTY HAS BEEN DENIED SPACE FOR
14 PHYSICAL COLLOCATION?

15

16 A. Yes. As this Commission is aware, BellSouth has hosted
17 a number of tours for parties who requested physical
18 collocation in a given BellSouth central office but
19 were denied due to space exhaustion. The FCC's recent
20 rules would apparently require BellSouth to conduct
21 such a tour within ten (10) days of the denial of
22 space.

23

24 Q. WHAT IS BELLSOUTH'S POLICY REGARDING PRODUCTION OF
25 LISTS OF CENTRAL OFFICES WITHIN WHICH SPACE IS NOT

1 AVAILABLE FOR PHYSICAL COLLOCATION?

2

3 A. BellSouth evaluates its ability to provide physical
4 collocation and assesses the local building code
5 requirements and/or restrictions on a per request
6 basis. BellSouth has over 1,600 central offices in its
7 nine-state region. Because BellSouth has not processed
8 requests for collocation in every municipality within
9 its region, BellSouth cannot predict with certainty
10 where the local code officials will allow unenclosed
11 physical collocation space. Further, BellSouth
12 believes such a list would be difficult to maintain
13 accurately given the constantly changing situation in
14 each of BellSouth's central offices. BellSouth is
15 investigating means by which it can keep ALECs informed
16 of the availability of space within BellSouth's central
17 offices.

18

19 Q. WHAT IS BELLSOUTH'S POLICY REGARDING THE REMOVAL OF
20 OBSOLETE, UNUSED EQUIPMENT IN ORDER TO ACCOMMODATE
21 REQUESTS FOR PHYSICAL COLLOCATION?

22

23 A. First of all, BellSouth believes the FCC intended to
24 use the terms "obsolete" and "unused" together to avoid
25 disagreements regarding an incumbent LEC's obligations

1 to modernize its network to replace older vintage but
2 still functional equipment. Otherwise, a collocator
3 might demand that the incumbent replace an analog
4 switching system with a newer, physically smaller,
5 digital switch in order to free up space for physical
6 collocation. I do not believe this is what the FCC
7 intended, nor would such a requirement make economic
8 sense. Thus, BellSouth believes its policy heretofore
9 is compliant with the FCC's rules in Order 99-48.

10
11 Q. PLEASE ADDRESS THE FCC'S PRESUMPTION THAT ANY
12 COLLOCATION ARRANGEMENT OFFERED BY ANY OTHER ILEC IS
13 TECHNICALLY FEASIBLE?

14
15 A. BellSouth is troubled by the breadth of this
16 presumption as well as the uncertainty inherent in such
17 a requirement.

18
19 Q. THE FCC'S RECENT RULES REQUIRE PHYSICAL COLLOCATION OF
20 AS LITTLE AS ONE BAY OF EQUIPMENT IF SPACE IS
21 AVAILABLE. DOES THIS REQUIREMENT IMPOSE UPON BELL SOUTH
22 THE DUTY TO ALLOW COMMINGLING OF A COLLOCATOR'S
23 EQUIPMENT WITH BELL SOUTH'S EQUIPMENT OR ANOTHER ILEC'S
24 EQUIPMENT?

25

1 A. No. For network reliability and safety reasons,
2 BellSouth does not permit physical collocation of
3 equipment that is commingled with its own equipment.
4 By use of the term "commingling" I mean that a single
5 bay (which is the framework used to mount equipment)
6 would be used to accommodate the equipment of BellSouth
7 and the equipment of one or more collocators on
8 different shelves within that bay. BellSouth is
9 permitted to impose reasonable security measures in
10 association with its physical collocation offering.
11 Carriers that do not wish to utilize physical
12 collocation arrangements may elect to utilize virtual
13 collocation arrangements as the carrier's first choice.
14 Virtual collocation allows the "commingling" of
15 equipment that some carriers apparently want; however
16 in such an arrangement, BellSouth (rather than the
17 collocator) performs any required equipment
18 maintenance. Thus, network security and reliability
19 are not degraded while still allowing the benefits of
20 commingling of equipment.

21

22 Q. PLEASE ADDRESS THE FCC'S REQUIREMENT IN ITS RECENT
23 ORDER THAT PERMIT COLLOCATORS DIRECT ACCESS TO ITS
24 EQUIPMENT WITHOUT BEING ESCORTED BY BELLSOUTH PERSONNEL
25 AND WITHOUT THE COLLOCATOR'S EQUIPMENT BEING PHYSICALLY

1 SEPARATED BY A WALL OR OTHER STRUCTURE FROM BELLSOUTH'S
2 EQUIPMENT OR THE EQUIPMENT OF OTHER ALECs.

3
4 A. The FCC's Order raises serious concerns that must be
5 addressed in order to retain the level of network
6 reliability and security that currently exists and
7 which end user customers and regulators have come to
8 expect. While I am in no way suggesting that an ALEC
9 would intentionally disrupt service provided by another
10 carrier or would intentionally damage, disable or
11 reconfigure the equipment or facilities of another
12 carrier, I believe that a simple reading of today's
13 newspaper headlines reveals the need for stringent
14 control over the access to and operation of the public
15 telephone network. It would be a relatively easy task
16 for those who sought to commit terroristic acts to
17 first become certificated as an ALEC, then seek minimal
18 collocation arrangements in a number of strategic
19 central offices and later use direct access to such
20 collocation arrangements as the means to gain access
21 that would otherwise have been denied. Although the
22 FCC suggests that the ILEC may install monitoring and
23 access devices such as card readers as means of
24 maintaining network reliability and security, I am
25 concerned regarding the effectiveness of such measures

1 to repulse criminal acts. Even taking at face value
2 that effective security measures could be put in place,
3 such measures will take time to implement and before
4 the completion of such implementation, the public
5 telephone network, both BellSouth's network and the
6 networks of other service providers, would be at
7 significant risk.

8
9 ***Issues raised by parties and Commission staff***
10 ***identified in this proceeding (specifically, Issues***
11 ***1,2,5 and 6) and BellSouth's efforts to have building***
12 ***code officials approve BellSouth's requests for permits***
13 ***to build "wire mesh cages" to serve as enclosed***
14 ***physical collocation arrangements.***

15
16 **Issue 1: What obligation does BellSouth have to make**
17 **space available at these central offices to permit**
18 **physical collocation pursuant to the Act and applicable**
19 **state and federal requirements?**

20
21 Q. WHAT IS BELLSOUTH'S POSITION AS TO ITS OBLIGATION TO
22 MAKE SPACE AVAILABLE FOR PHYSICAL COLLOCATION REQUESTED
23 BY ALECS?

24
25 A. BellSouth's contention is that neither the

1 Telecommunications Act of 1996 ("Act") nor the rules of
2 the Federal Communications Commission (FCC) require
3 BellSouth to make relocations and renovations to
4 accommodate requests for physical collocation
5 arrangements. The Federal Communications Commission 47
6 CFR Chapter 1 51.321 (e) states "An incumbent LEC shall
7 not be required to provide for physical collocation of
8 equipment necessary for interconnection or access to
9 unbundled network elements at the incumbent LEC's
10 premises if it demonstrates to the state commission
11 that physical collocation is not practical for
12 technical reasons or because of space limitations."

13
14 Q. DOES EITHER THE ACT OR THE RULES SET FORTH BY THE FCC
15 REQUIRE BELLSOUTH TO REMOVE ITS WORKING EQUIPMENT OR TO
16 RELINQUISH ADMINISTRATIVE AREAS WITHIN ITS CENTRAL
17 OFFICES IN ORDER TO ACCOMMODATE REQUESTS FOR
18 COLLOCATION SPACE?

19
20 A. The Act simply states that space limitations justify a
21 State commission to grant a physical collocation
22 waiver. Neither the Act nor the FCC's rules specify to
23 what purposes BellSouth may use the space within its
24 central offices. Accordingly, the term "use" has its
25 plain language meaning here. In paragraph 579 of the

1 FCC's First Report and Order in Docket 96-325, the FCC
2 states:

3
4 "We believe that section 251(c)(6) generally
5 requires that incumbent LECs permit the
6 collocation of equipment used for interconnection
7 or access to unbundled network elements. Although
8 the term "necessary", read most strictly, could be
9 interpreted to mean "indispensable," we conclude
10 that for the purposes of section 251(c)(6)
11 "necessary" does not mean "indispensable" but
12 rather "used" or "useful." This interpretation is
13 most likely to promote fair competition consistent
14 with the purposes of the Act."

15
16 This same doctrine of fairness should be applied to
17 BellSouth's use of its own space within its central
18 offices. Not only do these central offices house
19 telecommunications equipment (including switching,
20 transmission, power, and ancillary equipment) but also
21 the people, tools, and computers, used to administer,
22 provision, maintain, and repair such telecommunications
23 equipment.

24
25 Q. DOES THE ACT DEFINE THE TERM "TELECOMMUNICATIONS

1 EQUIPMENT"?

2
3 A. Yes. Section 3(a)50 states:

4
5 "The term 'telecommunications equipment' means
6 equipment, other than customer premises equipment,
7 used by a carrier to provide telecommunications
8 services, and includes software integral to such
9 equipment (including upgrades)."

10
11 The equipment within BellSouth's central offices is not
12 customer premises equipment and thus falls under this
13 definition since individually and collectively it is
14 used to provide telecommunications services. While
15 other parties to this proceeding may argue that some or
16 all of these purposes are not "indispensable" and argue
17 that BellSouth must relocate or dispose of
18 administrative space, employee break rooms and the
19 like, all of these constitute productive use of floor
20 space.

21
22 Q. HOW DOES THE FCC DEFINE THE TERM "TECHNICALLY
23 FEASIBLE"?

24
25 A. The FCC's 47 CFR 51.5 states "Interconnection access to

1 unbundled network elements, collocation, and other
2 methods of achieving interconnection or access to
3 unbundled network elements at a point in the network
4 shall be deemed technically feasible absent technical
5 or operational concerns that prevent the fulfillment of
6 a request by a telecommunications carrier for such
7 connection, access, or methods. A determination of
8 technical feasibility does not include consideration of
9 economic, accounting, billing, space or site concerns,
10 except that space and site concerns may be considered
11 in circumstances where there is no possibility of
12 expanding the space available. The fact that an
13 incumbent LEC must modify its facilities or equipment
14 to respond to such a request does not determine whether
15 satisfying such request is technically feasible. An
16 incumbent LEC that claims that it cannot satisfy such
17 request because of adverse network reliability impacts
18 must prove to the state commission by clear and
19 convincing evidence that such interconnection, access,
20 or methods would result in specific and significant
21 adverse network reliability impacts.”

22
23 Q. WHAT IS THE IMPACT OF EQUIPMENT RELOCATION AND
24 REARRANGEMENT ON NETWORK RELIABILITY AND SECURITY?

1 A. The potentially negative impact on network reliability
2 and security resulting from equipment relocation or
3 rearrangement must be assessed on a case-by-case basis.
4 However, equipment relocations and rearrangements, by
5 industry practice, have long been approached in a
6 generally conservative manner given the potential for
7 significant service disruption, not only affecting the
8 equipment being relocated or rearranged but also
9 adjacent equipment or equipment that shares common
10 resources with the equipment being relocated or
11 rearranged.

12

13 Q. WHAT HAS BELLSOUTH'S GENERAL EXPERIENCE BEEN REGARDING
14 THE IMPLEMENTATION OF ITS PHYSICAL COLLOCATION
15 OFFERING?

16

17 A. While the majority of requests have gone smoothly,
18 BellSouth has also encountered real, and frankly,
19 unexpected roadblocks. Among the roadblocks BellSouth
20 has encountered are: permit and inspection delays;
21 building code restrictions; customer errors/
22 modifications on applications and firm orders which
23 require rework; certified vendor errors and shortages
24 of equipment.

25

1 **Issue 2: What factors should be considered by the**
2 **Commission in making its determination on BellSouth's**
3 **Petitions for Waiver and Temporary Waiver of the**
4 **requirement to provide physical collocation for the**
5 **following central offices:**

- 6
- 7 a) Daytona Beach Port Orange
 - 8 b) Boca Raton Boca Teeca
 - 9 c) Miami Palmetto
 - 10 c) West Palm Beach Gardens
 - 11 d) North Dade Golden Glades
 - 12 e) Lake Mary

13

14 Q. WOULD YOU EXPLAIN WHAT FACTORS ARE CONSIDERED WHEN
15 DETERMINING SPACE ALLOCATION FOR COLLOCATION?

16

17 A. To determine space allocation or availability for
18 collocation in any of BellSouth's central offices,
19 several factors have to be assessed. These factors are
20 outlined in the FCC's First Report and Order, paragraph
21 604, et al. These factors fall into the following
22 categories:

- 23
- 24 1. Existing building configuration such as the
25 building outline and physical capacity of the

1 structure.

2 2. Space usage and forecasted demand.

3
4 Other factors that also potentially impact space
5 allocation or availability for collocation include Code
6 and regulatory factors at the national, state, and
7 local level such as the National Fire Protection Act,
8 the Southern Building Code, and local county and
9 municipal codes. Space design practices act as another
10 set of codes specifying space allocation meets the
11 safety needs for employees, vendors, and customer
12 service provided by the building and its occupants.

13
14 Details of these factors are further discussed in the
15 testimony of Mr. Jim Bloomer.

16
17 **Issue 5: Should BellSouth's Petitions for Waiver and**
18 **Temporary Waiver of the requirement to provide physical**
19 **collocation in the following central offices be**
20 **granted:**

- 21
22 a) Daytona Beach Port Orange
23 b) Boca Raton Boca Teeca
24 c) Miami Palmetto
25 c) West Palm Beach Gardens

1 d) **North Dade Golden Glades**

2 e) **Lake Mary**

3

4 Q. HAVE YOU READ MR. BLOOMER'S TESTIMONY, AND DO YOU AGREE
5 WITH HIS ASSESSMENT OF SPACE ALLOCATION FOR THE CENTRAL
6 OFFICES MENTIONED ABOVE?

7

8 A. I have read Mr. Bloomer's testimony and agree with his
9 assessment that no available space exists in any of the
10 above mentioned central offices for physical
11 collocation. I have also personally visited each of
12 these offices and have taken part in the tours of these
13 six central offices that were attended by
14 representatives of certain ALECs as well as members of
15 the Commission's staff. Based on my review of the
16 application of relevant factors and having taken these
17 tours, I support BellSouth's Petitions for Waiver and
18 Temporary Waiver in these six central offices.

19

20 **Issue 6: If the Commission determines that a waiver**
21 **request should be denied, how should BellSouth**
22 **effectuate FCC Rule 47 CFR § 51.323 (f) (1) in**
23 **processing requests for physical collocation in those**
24 **central offices?**

25

1 Q. WHAT ACTION DOES BELLSOUTH BELIEVE THIS COMMISSION
2 SHOULD TAKE SHOULD THE COMMISSION DETERMINE THAT A
3 WAIVER REQUEST SHOULD BE DENIED?
4

5 A. BellSouth believes that, in the event the Commission
6 determines that space is available for physical
7 collocation in a given central office for which
8 BellSouth has filed a waiver, that the Commission
9 should specify the amount of space it has determined is
10 available.
11

12 Q. BY WHAT PROCESS WOULD BELLSOUTH THEN OFFER THE SPACE
13 IDENTIFIED BY THE COMMISSION AS AVAILABLE FOR PHYSICAL
14 COLLOCATION TO REQUESTING CARRIERS?
15

16 A. Once the Commission's Order is final and unappealable,
17 BellSouth will allocate that amount of space to
18 requesting carriers on a "first come, first served"
19 basis. Because BellSouth has kept records of the date
20 of each request and the amount of space requested for
21 physical collocation, BellSouth would offer the space
22 to be allocated in the same order and for the same
23 amount of floor space as had been originally requested.
24 By "request" I mean the original application for
25 physical collocation space rather than a "firm order"

1 for space. Briefly, a telecommunications carrier
2 provides BellSouth an application for a physical
3 collocation arrangement of a given size in a particular
4 BellSouth central office. BellSouth analyzes the
5 application to determine whether space exists such that
6 the request may be accommodated. In cases where
7 sufficient space is not available, the requesting party
8 is so informed.

9
10 Q. HOW SHOULD BELLSOUTH TREAT CASES WHERE THE REQUESTING
11 CARRIER DECLINES THE OFFER OF THE AMOUNT OF SPACE IT
12 HAD ORIGINALLY REQUESTED, OR IF THE REQUESTING CARRIER
13 AGREES TO A SMALLER AMOUNT OF SPACE THAN WAS ORIGINALLY
14 REQUESTED?

15
16 A. Should a requesting carrier decline the offer of the
17 amount of space it had originally requested, or if the
18 requesting carrier agrees to accept the offer of a
19 smaller amount of space than had been originally been
20 requested, BellSouth will consider that requesting
21 carrier's original request to have been fulfilled. If
22 any of the space found by the Commission to be
23 available for physical collocation remains to be
24 allocated, BellSouth would offer other requesting
25 carriers their originally requested amount of floor

1 space respectively (on a first come, first served
2 basis) and would continue the process until all floor
3 space had been allocated or until all requesting ALECs
4 had either accepted or declined the offer of space. At
5 the point the amount of space identified by the
6 Commission as available for physical collocation
7 becomes allocated, BellSouth's Waiver Request would be
8 considered as granted obviating or eliminating the need
9 for BellSouth to re-file a physical collocation waiver
10 request in that central office.

11
12 ***Overview of the testimony of the other BellSouth***
13 ***witnesses and explain each of their roles in the***
14 ***collocation process.***

15
16 Q. PLEASE PROVIDE THE NAMES AND GENERAL RESPONSIBILITIES
17 OF EACH OF THE OTHER BELLSOUTH WITNESSES IN THIS
18 PROCEEDING.

19
20 A. The other BellSouth witnesses are as follows:

21
22 Mr. Thomas Fortenberry is Manager of Network
23 Forecasting and is responsible for forecasting growth
24 for future years of individual products or groups of
25 products within a Wire Center.

1 The following individuals serve as Area Managers -
2 Circuit Capacity Management. These individuals
3 supervise the preparation of forecasts and plans for
4 central office power equipment:

- 5 • Mr. John MacDonald is Area Manager in the South
6 Florida Capacity Management organization and has
7 responsibilities for managing the Common Systems
8 Capacity Management (CSCM) group, Power Capacity
9 Management (PCM) group, and the Transmission/Video
10 Engineers for South Florida.
- 11 • Mr. Robert Fisher is a Power Capacity Manager in
12 the North Florida Capacity Management organization
13 and responsible for the planning and deployment of
14 power equipment and standby engine/alternators for
15 two central offices in this proceeding.

16
17 The following individuals serve as Area Managers -
18 Circuit Capacity Management. These individuals
19 supervise the preparation of circuit forecasts and
20 plans (for example, trunk forecasts) used by others to
21 ensure that adequate circuit capacity is available when
22 and where needed.

- 23 • Ms. Susan Smith is Area Manager - Circuit Capacity
24 Management in the South Florida Capacity
25 Management District and has the responsibility of

- 1 supervising Circuit Capacity Management for
2 Broward and Palm Beach County.
- 3 • Mr. Alan Levak is Area Manager - Circuit Capacity
4 Management in the South Florida Capacity
5 Management District and has the responsibility of
6 supervising Circuit Capacity Management for Miami-
7 Dade and Monroe County.
 - 8 • Mr. Kenneth Krick is Area Manager - Circuit
9 Capacity Management in the North Florida Capacity
10 Management District and has the responsibility of
11 supervising Circuit Capacity Management for the
12 Orlando, Daytona, and Indian River areas.

13

14 The following individuals serve as Area Managers -
15 Switch Capacity Management. They are responsible for
16 managing work activities required to plan, design, and
17 provision equipment for switching relief for all types
18 of central office switching systems.

- 19 • Mr. Shakur Bolden is Area Manager - Switch
20 Capacity Management Network Operations - North
21 Florida Capacity Management.
- 22 • Mr. William Perez is Area Manager - Switch
23 Capacity Management Network Operations - South
24 Florida Capacity Management.
- 25 • Mr. Thomas Forness is Area Manager - Switch

1 Capacity Management Network Operations - South
2 Florida Capacity Management.

3
4 Ms. Barbara Cruit is the Director of South Florida
5 Capacity Management and is responsible for the overall
6 Capacity Management process utilized by BellSouth
7 Capacity Managers to determine the equipment
8 requirements for forecasted growth for each of the six
9 central offices at issue in this proceeding.

10
11 The following individuals serve as Area Managers -
12 Common Systems Capacity Management. They are
13 responsible for managing work activities required to
14 plan, design, and provision equipment referred to as
15 "common systems". These common systems include all
16 types of equipment and facilities other than switching
17 and transmission equipment.

- 18 • Mr. Guy Ream who is a Common Systems Capacity
19 Manager - Network Operations and has
20 responsibility for monitoring and coordinating
21 plans for equipment additions or removals in
22 central offices.
- 23 • Mr. Miguel Rodriguez who is a Common Systems
24 Capacity Manager - Network Operations and has
25 responsibility for maintaining building study

1 plans, for two central offices in this proceeding,
2 that define growth strategy for all classes of
3 central office equipment.

4 • Mr. Robert Cook who is a Common Systems Capacity
5 Manager and has responsibility for maintaining
6 building study plans, for two one central office
7 in this proceeding, that define growth strategy
8 for all classes of central office equipment.

9 • Mr. Louis Caban who is a Common Systems Capacity
10 Manager - Network Operations and has
11 responsibility for maintaining building study
12 plans, for one central office in this proceeding,
13 that define growth strategy for all classes of
14 central office equipment.

15
16 Mr. George Mainer is Director - Network Operations,
17 South Florida and has responsibility for maintenance
18 and provisioning activities for central offices in the
19 Miami-Dade area.

20
21 Mr. Jim Bloomer is Manager - Facility Planning -
22 Property and Services Management and is responsible for
23 assigning company floor space in existing buildings and
24 developing plans for future space allocations.

25

1 Q. DOES THIS CONCLUDE YOUR TESTIMONY?

2

3 A. Yes.



Ronald Martz, AIA, CFM
Building Standards and
Codes, Fire/safety

8 Corporate Plaza, 3C104
Plainsboro, NJ 08854

rmartz@btsm.co.bellcore.com
Phone 732-699-3752
Fax 732-336-2230

Date: July 6, 1998

Subject: Standard Building Code
Request for Formal Interpretation
704.3 - Tenant fire separation

File: 3860/98-266

To: Mark Chubb
SBCCI
900 Montclair Road
Birmingham, AL 35213

Dear Mark,

I appreciate the time you took several weeks ago when I called for assistance in requesting an interpretation from SBCCI on code requirements for *tenant fire separations* as delineated in Section 704.3 of the 1997 Standard Building Code. Please consider this letter as a request for a Formal Interpretation of Section 704.3 as it applies to collocation of telecommunications equipment in telecommunications facilities.

In order for you to better understand some uncommon telecommunications industry terminology, I have provided definitions of a few terms:

- *Collocation* is defined as the action of a Competitive Local Exchange Carrier (CLEC, or start-up telecommunications service providers as they are referred), locating their equipment in the building of an Incumbent Local Exchange Carrier (ILEC) such as BellSouth, GTE, Southwestern Bell, etc. Collocation is an FCC tariffed practice, and has become routine and widespread across the country in all ILEC companies. The CLEC leases space and building services in the ILEC's building, and installs either their own switch, or transmission equipment that is connected to the incumbent's switch and cabling through separate lease arrangements. Generically, the CLEC's equipment is the same as the ILEC's equipment. Virtually all incumbents require that the CLEC's equipment be NEBS compliant.
- *NEBS (Network Equipment Building Systems)* are publicly available generic requirements published and maintained by Bellcore (AT&T has their own version). NEBS sets forth minimal requirements for grounding, ESD, RFI, earthquakes, fire protection, and a host of other stringent requirements to assure safe and dependable telecommunications service. NEBS can be likened to a building code or standard for the telecommunications industry. Regarding fire protection requirements, equipment manufacturers such as Lucent or Nortel submit equipment (either separate line cards, full shelves, or complete cabinets) to Bellcore's testing facility in Chester NJ for technical auditing. NEBS has three levels of compliancy, and the fire protection requirements are the same for all three levels.

BB-98-1

As interpreted by some local code officials, Section 704.3 of the Standard Code requires my client, BellSouth, to erect 1-hour walls, not only between their equipment and the CLEC's equipment, but between each of the CLECs' spaces. The cost of these partitions and the resulting costs of associated electrical and HVAC alterations are very high in many cases, due to the amount of overhead cabling that must be properly firestopped. These costs are passed on to the competitors who complain that they don't have these restrictions in the other ILEC's facilities. (BellSouth is exclusively under the Standard Code, while all other Regional Bells are predominantly BOCA or ICBO, neither of which has this requirement). In BOCA and ICBO jurisdictions, companies install heavy gauge wire partitions for security.

I understand that the provisions of 704.3 have historically addressed separation issues as they are interpreted, for example, in malls, strip shopping, storage facilities, and several multi-family residential applications.

It is my objective opinion that the requirements of 704.3 would not apply to telecommunications facilities where competitive companies install their equipment in incumbents' buildings, for the following reasons:

- The use and occupancy are identical and there is no fire threat between the equipment
- The CLEC equipment is virtually identical to the ILEC equipment
- The CLEC equipment, like the ILEC equipment, is NEBS compliant
- In BellSouth's case, CLEC personnel are escorted into and out of their space by BellSouth personnel and are not allowed to wander through the building
- Lease agreements and tariffs protect both companies from contingent liability issues
- There has been no fire incident (at least in the Regional Bell Operating Companies) between CLEC and ILEC spaces
- Wire partitions provide full vision between spaces which provides a higher level of safety from a fire protection standpoint

The telecommunications industry enjoys an exemplary fire safety record due primarily to their aggressive and pro-active stance on very early warning fire detection, selective compartmentation, assiduous firestopping practices, and remarkably safe equipment that is NEBS compliant.

Mark, I would appreciate your sharing this request with the staff and providing me with a full interpretation and intent of Section 704.3, as it applies to colocation of telecommunications equipment. Thanks again for your time and interest.

Very truly yours,



Ron Marts

cc	Steve Johnson	BellSouth
	Larry Langham	BellSouth
	Glen Neuburger	Bellcore

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Setting the
Standard for
America's
Model Codes

September 25, 1998

Mr. Ron Marta, AIA, CFM
Building Standards and Codes, Firesafety
Bellicore
3C104
8 Corporate Place
Piscataway, NJ 08854

Dear Ron:

This is in response to your request for an interpretation of the tenant separation requirements of the 1997 *Standard Building Code* as they apply to co-location of competitive local exchange carriers (CLEC) in the network equipment buildings of incumbent local exchange carriers (ILEC) such as BellSouth. The tenant separation requirements are found in 704.3 of the code.

As you correctly note in your request, tenant separation requirements do not appear in the provisions of any of the other nationally-recognized model building codes. The *Standard Building Code* provisions for tenant separation date back to the first edition in 1946, and are intended to protect the property of one occupant from harms arising from the use or occupancy of another portion of the same building occupied by another tenant. Chief among these harms is the threat of fire. The requirement for 1-hour fire resistance rated separation seems to follow from the assumption that tenants will usually be separated by partitions, floor/ceiling assemblies, or by some equivalent construction as a matter of security or privacy or simply to control the amount of usable space let to a tenant under the terms of a given contract. Since these separations may obscure evidence of a hazardous situation and limit the degree of control which may be exercised over such hazards by other occupants or tenants, the code requires these separations to provide a minimum degree of fire resistance.

Of course, many contemporary co-location or cohabitation situations challenge the traditional notion that tenants will already be separated from one another. Many occupancies now let space within their buildings to other companies for purposes similar to or at least complementary to their own use of the premises. Examples abound: cosmetic counters, opticians offices, photo processors, and fast food franchise counters in retail stores are probably the most common examples. The situation you describe with regard to network equipment buildings does not seem altogether different from these new arrangements: The tenants share a common occupancy classification, perform complementary activities, and provide common access to their respective portions of the premises. Perhaps most importantly though, the arrangements you describe, particularly common equipment requirements, escorted access, largely open plan, and a high degree of visibility among adjacent tenants, suggest that continuous surveillance of the equipment and premises is provided. This seems to ensure that no tenant is unwittingly exposed to a threat introduced by another.

In small network equipment buildings (those less than 3,000 sq ft), the exception to 704.3 would require no separation between adjacent tenants. In larger buildings (those over

Mr. Ron Marts, AIA, CFM
September 25, 1998
Page 2

3,000 sq ft), separation could only be required to subdivide the building into areas less than 3,000 sq ft. However, this does not appear necessary, since the arrangements you describe seem to fulfill the intent of the tenant separation provisions.

This information is provided to assist you in complying with the provisions of the Standard Building Code. This opinion has not been reviewed by the Interpretation Committee, and does not represent the official position of SBCCI or the Southeastern Association of Fire Chiefs, Inc. in this matter. Please remember, the code official remains the final authority for all decisions concerning the application and interpretation of these provisions.

Sincerely,



Mark Chubb, CBO, AIFireE
SBCCI Fire Code Coordinator
Executive Director, Southeastern Association of Fire Chiefs

/mdc