

BEFORE THE
FLORIDA PUBLIC SERVICE COMMISSION

In the Matter of :
:
:
Petition of INTERMEDIA : DOCKET NO. 921074-TP
COMMUNICATIONS OF FLORIDA, INC. :
for expanded interconnection :
for AAVs within LEC central :
offices. :

FIRST DAY - MORNING SESSION

VOLUME I

Pages 1 through 166

PROCEEDINGS:

HEARING

BEFORE:

COMMISSIONER SUSAN F. CLARK
COMMISSIONER LUIS J. LAUREDO
COMMISSIONER JULIA L. JOHNSON

DATE:

Monday, September 13, 1993

TIME:

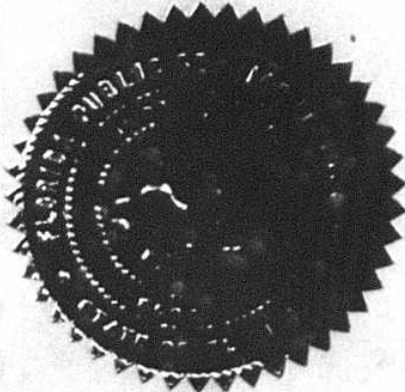
Commenced at 9:30 a.m.

PLACE:

FPSC Hearing Room 106
Fletcher Building
101 East Gaines Street
Tallahassee, Florida

REPORTED BY:

JOY KELLY, CSR, RPR
Chief, Bureau of Reporting
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FLORIDA PUBLIC SERVICE COMMISSION

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FPSC-RECORDS/REPORTING

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21 MICHAEL W. TYE, AT&T Communications of the
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10 LAURA L. WILSON, Post office Box 10383,
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24 appearing on behalf of the Commission Staff.

I N D E X

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P R O C E E D I N G S

(Hearing convened at 9:45 a.m.)

COMMISSIONER CLARK: Call the hearing to order. Would you read the notice?

MR. MURPHY: We're here pursuant to notice for a hearing in Docket No. 921074, which addresses the Intermedia petition for expanded interconnection for AAVs within LEC central offices.

COMMISSIONER CLARK: Take appearances.

MR. ERWIN: Yes. My name is David B. Erwin, of the firm Young, Van Assenderp, Varnadoe & Benton, 225 South Adams Street, Tallahassee, Florida, and I'm appearing here on behalf of Northeast Florida Telephone Company, Southland Telephone Company, Indiantown Telephone System and Quincy Telephone Company.

MR. CARVER: Phillip Carver on behalf of Southern Bell, 150 West Flagler Street, Miami, Florida. Also representing Southern Bell today is David Falgoust.

MS. CASWELL: Kim Casell, for GTE Florida, One Tampa City Center, Tampa, Florida 33601.

MR. MCGLOTHLIN: Joe McGlothlin, 315 South Calhoun Street, Tallahassee, for the Florida Interexchange Carriers Association or FIXCA.

MR. FONS: John P. Fons with the law firm of

1 Ausley, McMullen, McGehee, Carothers and Proctor,
2 appearing on behalf of Central Telephone Company of
3 Florida and United Telephone Company of Florida. Also
4 appearing on behalf of both those companies is Lee L.
5 Willis of the same law firm.

6 MR. WAHLEN: Jeff Wahlen of Ausley, McMullen,
7 McGehee, Carothers and Proctor, P. O. Box 391,
8 Tallahassee, Florida 32301, appearing with Lee L.
9 Willis on behalf of the ALLTEL Florida, Inc.

10 MS. WILSON: Laura Wilson, Post Office Box
11 10383, Tallahassee, Florida 32302, appearing on behalf
12 of the Florida Cable Television Association.

13 MR. DUNBAR: Peter Dunbar, of the Pennington
14 Haben firm on behalf of Time Warner AxS, 306 North
15 Monroe, Tallahassee, Florida 32301. Also David L.
16 Swafford, Class B Practitioner, appearing on behalf of
17 Time Warner AxS.

18 MR. HOFFMAN: Kenneth A. Hoffman and Floyd R.
19 Self, with the Messer, Vickers law firm, Post Office
20 Box 1876, Tallahassee, Florida, 32302. I'll also enter
21 an appearance on behalf of Jodie L. Donovan, 1 Teleport
22 Drive, Suite 301, Staten Island, New York, 10311, all
23 on behalf of Teleport Communications Group, Inc.

24 MR. WIGGINS: Patrick K. Wiggins and Kathleen
25 Villacorta, law firm of Wiggins and Villacorta, Post

1 Office Drawer 1657, Tallahassee, Florida 32302, on
2 behalf of Intermedia Communications of
3 Florida, Inc.

4 MR. BOYD: I'm Everett Boyd of the Ervin,
5 Varn, Jacobs, Odom and Erwin law firm, Tallahassee.
6 I'm appearing on behalf of Sprint Communications
7 Company Limited Partnership. Also appearing on behalf
8 of Sprint is Chan Bryant of Sprint's regional office at
9 3065 Cumberland Circle, Atlanta, Georgia.

10 MR. TYE: Michael W. Tye, 106 East College
11 Avenue, Suite 1410, Tallahassee, Florida, 32301,
12 appearing on behalf of AT&T Communications of the
13 Southern States, Inc.

14 MR. MELSON: Richard Melson, of the law firm
15 Hopping Boyd Green & Sams, P.O. Box 6526, Tallahassee,
16 appearing on behalf of MCI Telecommunications
17 Corporation.

18 MR. BECK: Charlie Beck and Earl Poucher,
19 Office of the Public Counsel, appearing on behalf of
20 Florida's citizens.

21 MR. MURPHY: Charles Murphy and Tracy Hatch
22 on behalf of the Commission Staff.

23 MR. PRUITT: I'm Prentice Pruitt, counsel to
24 the Commissioners.

25 COMMISSIONER LAUREDO: This is a record, I

1 think, number of lawyers being hers. Ms. Wilson,
2 welcome under your new role, good luck.

3 MS. WILSON: Thank you, Commissioner.

4 COMMISSIONER CLARK: Mr. Murphy, what do we
5 take up next?

6 MR. MURPHY: As a preliminary matter, Staff
7 would like to stipulate the surveillance reports of the
8 LECs who are here into the record for the limited
9 purpose of calculating revenue impact. We do not have
10 copies at this time, they are being made.

11 COMMISSIONER CLARK: Well, maybe we ought to
12 wait until you have them?

13 MR. MURPHY: Very well. And then there are
14 the other stipulations which begin on Page 60 of the
15 Prehearing Order. (Pause)

16 COMMISSIONER CLARK: You are recommending
17 that we accept the proposed stipulations?

18 MR. MURPHY: Yes, Commissioner.

19 COMMISSIONER CLARK: All right. Should we do
20 that now?

21 MR. MURPHY: Yes.

22 COMMISSIONER CLARK: Do I have a motion that
23 we accept the proposed stipulations?

24 COMMISSIONER LAUREDO: I move we accept.

25 COMMISSIONER JOHNSON: Second.

1 COMMISSIONER CLARK: All right. Without
2 objection, the proposed stipulations starting on Page
3 60 are approved.

4 MR. MURPHY: Staff would ask for official
5 recognition of several FCC orders: No. 92440, released
6 on October 19, 1992; 93680, released on June 9, 1993;
7 93658 released on June 9, 1993; 93726 released on June
8 18th, 1993; and two which we received on Friday, 93378
9 and 93379. They were released on September 2nd, 1993.
10 If the parties need copies of the more recent ones, we
11 will provide them at a break.

12 COMMISSIONER CLARK: And you're moving we
13 take official recognition of those FCC orders?

14 MR. MURPHY: Yes, ma'am.

15 COMMISSIONER CLARK: Is there any objection
16 to that?

17 COMMISSIONER LAUREDO: No, ma'am. I move it.

18 COMMISSIONER CLARK: Show those orders listed
19 as being officially recognized for purposes of this
20 proceeding.

21 MR. MURPHY: Commissioner, there are several
22 exhibits which Staff proposes to move which are subject
23 of notices of intent to request confidential treatment.
24 They will not be included in composite exhibits and we
25 will, in their place, distribute redacted versions. In

1 the event that someone wants to do cross examination on
2 those exhibits, we would need a temporary protective
3 order to be granted, or at least we would move for one
4 to be granted.

5 COMMISSIONER CLARK: It is your
6 recommendation that we take that up at the time we
7 need to?

8 MR. MURPHY: Yes, Commissioner, I just wanted
9 you to be aware of it.

10 Also, there are several exhibits which are
11 voluminous that are the interstate tariffs of the
12 companies. We have not prepared copies for everyone of
13 those, there are just a few copies of those rather than
14 cut that many trees. Those are CBP-3, BP-2 --

15 COMMISSIONER CLARK: Mr. Murphy, are you
16 going to take them up as we get to the witnesses?

17 MR. MURPHY: We can mention them at that
18 time.

19 COMMISSIONER CLARK: Let's do that, so we get
20 them in order.

21 MR. MURPHY: Very well. And then Staff would
22 simply ask that the witnesses, when they take the
23 stand, indicate they have been sworn.

24 COMMISSIONER CLARK: Okay.

25 COMMISSIONER LAUREDO: Let me ask you

1 quickly. The stipulations that we have just agreed,
2 the text of that is the same that was reflected in the
3 draft, which is the paper where I have all my notes,
4 and stuff, right? There hasn't been any change in the
5 body of the proposed stipulations in the draft that's
6 to be approved?

7 MR. HATCH: There may be some minor textual
8 changes to some of those stipulations. Also, there's
9 fewer of them in the final prehearing order than there
10 was in the original draft. We did not get full
11 stipulations on everything that --

12 COMMISSIONER LAUREDO: Those that were
13 stipulated, the language reflected in the draft is not
14 necessarily the language --

15 MR. HATCH: That's correct, there could be
16 some changes in there, yes, sir.

17 COMMISSIONER CLARK: Okay. That's it?

18 MR. MCGLOTHLIN: Commissioner Clark, an
19 additional preliminary matter. With the approval of
20 Stipulation No. 10, FIXCA is in a position to withdraw
21 the testimony of Joseph Gillan, which addresses only
22 that issue. And FIXCA and the Interexchange Access
23 Coalition would ask to be excused from participation at
24 the hearing. We would prefer to remain parties to the
25 case but we have no witnesses.

1 COMMISSIONER CLARK: All right. So you're
2 withdrawing Mr. Gillan's testimony?

3 MR. MCGLOTHLIN: Yes.

4 COMMISSIONER CLARK: Okay. We'll show that
5 prefiled testimony withdrawn and you're excused from
6 the proceeding.

7 MR. MCGLOTHLIN: Thank you.

8 MR. TYE: Commissioner Clark, in conjunction
9 with the withdrawal of the prefiled testimony of Joseph
10 Gillan, AT&T will withdraw the prefiled rebuttal
11 testimony of Mike Guedel. Mr. Guedel's direct
12 testimony will stand as filed.

13 COMMISSIONER CLARK: All right. We'll show
14 that prefiled testimony withdrawn. Yes, Mr. Gillan's
15 testimony and the rebuttal testimony of Mr. Guedel.

16 MR. NELSON: And, Commissioner, with the
17 approval of the same stipulations, MCI would like to
18 request to be excused from further participation in the
19 hearings. We also would like to remain a party and may
20 file a brief but we will not participate today.

21 COMMISSIONER CLARK: That will be fine.
22 You're excused.

23 MR. NELSON: Thank you.

24 COMMISSIONER CLARK: Is there anyone else
25 that would like to be excused? (Pause) Are there any

1 other preliminary matters? Okay.

2 Mr. Wiggins, I believe yours is the first
3 witness?

4 MR. WIGGINS: Yes, ma'am.

5 COMMISSIONER CLARK: If you would have him
6 come to the stand? And then everyone else who is going
7 to testify, if they would likewise stand up and be
8 sworn at the same time.

9 MR. WIGGINS: I call John Canis to the stand.

10 COMMISSIONER CLARK: Everyone appearing as
11 witnesses, if you would please stand up and be sworn in
12 at this time.

13 (Witnesses collectively sworn)

14 - - - - -

15 JONATHAN EDWARD CANIS

16 was called as a witness on behalf of Intermedia
17 Communications of Florida and, after being duly sworn,
18 testified as follows:

19 DIRECT EXAMINATION

20 BY MR. WIGGINS:

21 Q Would you state your name and address for the
22 record, please?

23 A My name is Jonathan Edward Canis. I live at
24 1633-B 13th Street Northwest, Washington, DC, Area Code
25 20009.

1 Q Did you cause to be prepared and filed in
2 this docket 41 pages of direct testimony?

3 A Yes, I did.

4 Q Do you have any changes or corrections to
5 make to that testimony?

6 A I have a few changes to be made in the
7 transcript of the deposition.

8 Q Well, that's -- I'm sorry, we're ahead of
9 ourselves. On the prefiled testimony?

10 A On the prefiled testimony, no, no changes.

11 Q If I asked you the questions that were asked
12 in the prefiled testimony, your answers would be the
13 same as submitted?

14 A Yes, they would.

15 MR. WIGGINS: I move that the prefiled direct
16 testimony be inserted into the record as though read.

17 COMMISSIONER CLARK: Show the prefiled
18 testimony inserted into the record as though read.

19 Q (By Mr. Wiggins) Just to be clear, you had no
20 exhibits filed with this direct testimony, correct?

21 A That is correct.
22
23
24
25

DIRECT TESTIMONY OF JONATHAN E. CANIS

1
2 Q. Please state your name and business address.

3 A. Jonathan E. Canis, Suite 300, 3000 K Street, N.W., Washington, D.C. 20007.

4 Q. Please provide your educational background.

5 A. I received my B.A. from Rutgers University with highest honors. I hold a J.D.

6 from the Syracuse University College of Law, and a Masters in

7 Telecommunications Management, which was conferred jointly by the

8 Syracuse University School of Business Administration and the Newhouse

9 School of Communications.

10 Q. Please provide your employment history since graduating from law school.

11 A. I am an attorney with the firm of Swidler & Berlin, Chartered. I have been
12 associated with Swidler & Berlin since October 1988. Prior to that time, I was
13 an associate in the telecommunications practice of Bishop, Cook, Purcell and
14 Reynolds in Washington, D.C. In that capacity, my responsibilities included
15 extensive work in local exchange carrier ("LEC") tariffs and rates on behalf of
16 information service provider clients. I also participated extensively in the
17 Federal Communications Commission's ("FCC") Docket CC No. 88-2, which
18 established the FCC's rules governing "Open Network Architecture." Between
19 1984 and 1987, I worked as an attorney with the Federal Communications
20 Commission in the Tariff Division and the Accounting and Audits Division. In
21 that position, my responsibilities included reviewing LEC and interexchange
22 carrier ("IXC") tariffs and rates, determining the methodology for adjusting the

1 allowed rate of return of the Bell Operating Companies, and establishing the
2 FCC's rules governing the allocation of joint common costs between regulated
3 and unregulated LEC businesses telecommunications practice at Swidler &
4 Berlin.

5 Q. Please describe your telecommunications practice at Swidler & Berlin.

6 A. At Swidler & Berlin, I represent a number of clients, including IXCs, large users
7 of telecommunications services and alternative access vendors ("AAVs") --
8 otherwise known as competitive access providers ("CAPs") -- in proceedings
9 before the FCC and numerous state regulatory commissions. My
10 responsibilities include participation in a broad range of policy-oriented
11 rulemaking proceedings, assisting clients in various business transactions and
12 negotiations, and monitoring -- and when appropriate opposing -- LEC and/or
13 IXC tariffed service rates.

14 My specific experience regarding collocation issues includes the
15 following: I was lead counsel for an AAV client in the New York Public Service
16 Commission ("NYPSC") proceeding that established the first LEC-tariffed
17 collocation arrangement in the country. That involvement included the drafting
18 of pleadings in the NYPSC's rulemaking proceeding, as well as protracted
19 negotiations with representatives of New York Telephone to establish the
20 terms and conditions of its collocation tariffs and related contracts. Currently
21 four LECs in the United States have tariffed physical collocation arrangements
22 for intrastate services: New York Telephone, New England Telephone, Centel

1 of Illinois and Bell of Pennsylvania. I negotiated each of these four collocation
2 tariffs on behalf of an AAV client. I have also participated actively in the
3 proceedings concerning the virtual collocation tariffs that have been filed by
4 Illinois Bell and Bell of Pennsylvania. On behalf of various AAV clients,
5 including the Association for Local Telecommunications Services - the national
6 AAV trade association -- I have participated -- and continue to participate --
7 extensively in the FCC's collocation proceeding.

8 Q. Have you been involved in any other proceedings in which states have
9 considered the FCC's Expanded Interconnection Order?

10 A. I have represented competitive access providers in proceedings in Ohio,
11 Pennsylvania, Delaware, West Virginia, Indiana and North Carolina. In Ohio, i
12 continue to represent a coalition of five AAVs -- Cablevision Lightpath,
13 Fibernet, MetroComm, Metropolitan Fiber Systems, and Ohio Linx in
14 collocation-related proceedings. For Indiana I testified on collocation issues
15 on behalf of City Signal and Indiana Digital Access.

16 Q. On whose behalf are you testifying today?

17 A. I am testifying on behalf of Intermedia Communications of Florida, Inc., to
18 which I will hereafter refer to Intermedia. Intermedia currently provides
19 competitive access services in Florida, as authorized by this Commission.

20 Q. What is the purpose of your testimony?

21 A. The purpose of my testimony is to describe the functions served by
22 collocation, the similarities and differences between physical collocation and

1 virtual collocation and to describe the collocation debate and its resolution in
2 other states and at the Federal Communications Commission. I will also
3 demonstrate the positive economic impact that could result from the adoption
4 of a physical collocation policy like that contained in the FCC's Expanded
5 Interconnection Order.

6 Q. Please describe the policy goal which resulted in the FCC's consideration and
7 adoption of the Expanded Interconnection Order.

8 A. The FCC and those states that have considered issues of enhanced
9 interconnection to LEC networks have all been motivated by the same policy
10 goal -- the promotion of effective competition for local telecommunications
11 services. These regulatory initiatives have been spurred by the recent
12 development of the competitive access services industry.

13 In the mid-1980s, the declining cost of fiber optic cable and
14 technological innovation in microwave-based and fiber-based transmission
15 equipment made it possible for a small group of entrepreneurial companies to
16 compete directly with LECs for the provision of local access services. These
17 companies established fiber or microwave networks that typically serve large
18 business, institutional and governmental customers in metropolitan markets
19 across the country. The AAVs, such as Intermedia, provide three general
20 types of telecommunications links: (1) direct links from one customer
21 premises to another; (2) links between a customer premises and an IXC point
22 of presence ("POP"), to provide the originating or terminating tail of an

1 interstate or intrastate, interexchange, service; and (3) links between IXC
2 POPs, to hand off traffic from one IXC to another, or to offer a single IXC the
3 ability to aggregate or reroute its traffic without expanding its network.

4 AAV services typically involve high-capacity digital facilities for the
5 transmission of data and voice traffic, and run the gamut from low-capacity
6 data lines used for credit card verification to Fiber Distributed Data Interface
7 service, which connects local area networks at 100 Mbps. Moreover, AAV
8 services provide the highest operating standards available, and include state-
9 of-the-art features such as full circuit redundancy, which protects against
10 catastrophic service outages, and guarantees uninterrupted service 99.999%
11 of the time. AAVs have pioneered the development of such services and
12 network configurations, and LECs have only recently begun to follow suit.
13 Because AAV's offer protection against service outages, many customers
14 require "vendor diversity" for critical communications services; i.e., they
15 purchase redundant services from both LECs and AAVs.

16 The AAV industry has grown substantially over the past several years,
17 and now includes over 40 different companies operating in over 60
18 metropolitan areas across the country. Nevertheless, the provision of
19 competitive access services remains a nascent industry -- nationwide, AAV
20 gross revenues represent less than 1% of the market for access services,
21 which remains dominated by LECs.

1 The factor that most significantly inhibits AAV growth is the limited reach
2 of their networks -- currently, AAVs are forced to serve a niche market of
3 customers physically connected to their networks. As a method of expanding
4 the reach of AAV services, several states (starting with New York), and the
5 FCC have mandated or approved expanded interconnection arrangements,
6 through which AAVs may cost-effectively connect their traffic to the LECs'
7 networks, thereby gaining the ability to provide service to any customer
8 located on the ubiquitous LEC network.

9 Q. What benefits have the FCC and other commissions identified with the
10 expansion of local telecommunications competition?

11 A. The state public utility commissions and the FCC have identified a wide range
12 of public interest benefits that will accrue from the increased competition for
13 local services that collocation will stimulate. These benefits include more rapid
14 deployment of new technology, system redundancy and increased protection
15 against disastrous service outages, increased service innovation and greater
16 customer choice, and price competition that will reduce the cost of
17 telecommunications services to all customers. The importance of these
18 benefits cannot be underestimated to communication dependent businesses.
19 For example, information intensive businesses and health-care and educational
20 institutions are and will continue in the future to be dependent upon a modern
21 telecommunications infrastructure.

1 Indeed, Intermedia has already demonstrated that competition brings
2 substantial public interest benefits: Intermedia introduced redundant fiber ring
3 network architecture to Florida, which has only recently been copied by LECs.
4 Intermedia's entry into Florida markets has also resulted in the introduction of
5 new services, superior service quality, and lower service rates for
6 telecommunications users. For Intermedia -- or any competitive service
7 provider -- to succeed, it must offer potential customers competitive pricing,
8 superior quality, and responsive, user-friendly service. Intermedia has grown
9 to date because it offers business users in Florida these three elements.
10 Departure from a physical collocation standard will severely limit Intermedia's
11 ability to provide favorable pricing, high quality and ease of administration to
12 its customers. Regulation which artificially inhibits or restricts carriers from
13 employing the type and quality of service technology that is available in other
14 jurisdictions can only harm communications users in Florida. The Commission
15 must not inadvertently establish a regulatory scheme which will inhibit multiple
16 vendors from providing the greatest variety of competitive services possible to
17 end users. In order for Florida to maintain an innovative, state-of-the-art
18 communications infrastructure, it is crucial that all networks be
19 interconnectable to each other on a mutually equitable and efficient basis.
20 These objectives cannot be achieved through virtual collocation, because such
21 arrangements are not the operational, economic or technical equivalent of
22 physical collocation.

1 Full and effective competition for local telecommunications will not
2 develop in the midst of substantial regulatory uncertainty or inefficiency. Yet
3 uncertainty and inefficiency would result if the Commission were to adopt a
4 policy favoring virtual collocation, or giving the LEC discretion to select the
5 form of collocation it will provide. Such a decision would yield uncertainty
6 because, as discussed later in this testimony, virtual collocation greatly
7 increases the risk of litigation over cost and discrimination issues. A virtual
8 collocation or "LEC choice" policy would also be highly inefficient because it
9 would be inconsistent with the physical collocation policy that governs
10 interstate revisions, and would require AAVs and other collocators to build
11 unnecessary and duplicative collocation arrangements, and to artificially
12 segregate their interstate and intrastate traffic.

13 States that fail to guarantee effective interconnection and invite costly
14 litigation over collocation terms and conditions -- as a virtual collocation policy
15 will do -- risk driving some of the most innovative and progressive forces in
16 telecommunications out of the market. AAVs, which pioneered the
17 deployment of "disaster-proof" fiber ring technology, would likely enter or
18 expand their networks in states with less burdensome regulatory
19 environments; other parties that are now considering entry into the local
20 services markets -- such as interexchange carriers and cable operators --
21 would look to invest in areas with greater competitive opportunity and
22 regulatory certainty; large telecommunications-intensive businesses would look

1 to other states where competition has been more effective in reducing the
2 rates for telecommunications services and increasing service options.

3 Q. Please describe briefly what collocation actually entails.

4 A. Through collocation, equipment necessary to terminate an interconnector's
5 traffic is placed within the LEC central office ("CO"). This equipment typically
6 includes: (1) optical line terminating multiplexers ("OLTMs") which terminate a
7 fiber optic transmission and convert it from an optical to an electrical signal
8 that may be processed by the LECs' switches; (2) other multiplexers, which
9 typically include "3-1 multiplexers" which break down a single DS3 (45 Mbps)
10 transmission into 28 individual DS1 (1.544 Mbps) circuits, and "1-0
11 multiplexers" which break DS1 transmissions down into 24 voice-grade (64
12 kbps or less) circuits; and (3) digital access and cross-connect systems
13 ("DACS"), which reconfigure voice grade channels within a DS1 transmission,
14 and are used to "groom" traffic (to route traffic over existing facilities in the
15 most efficient manner possible). To terminate the interconnector's traffic within
16 the CO, the interconnector brings its fiber optic cable up to a manhole near
17 the central office, or mounts a microwave receiver on the CO roof. From
18 those points, LEC personnel bring connecting cable into the CO, where it is
19 attached to the collocated terminating equipment. Finally, individual circuits
20 derived from the interconnector's equipment are cross-connected to LEC
21 services to complete the transmission on the LEC network. The

1 interconnector monitors and controls the traffic between its network and the
2 equipment collocated in the LEC CO.

3 Q. Do these functions differ for virtual vs. physical collocation?

4 A. No. The functions described above are identical under either physical or
5 virtual collocation arrangements.

6 Q. How do these forms of collocation differ?

7 A. The two forms of collocation differ in two respects. First, under physical
8 collocation, the interconnector's personnel are given access to the LEC CO in
9 order to install and maintain the collocated equipment, while under virtual
10 collocation, the interconnector personnel are excluded from the CO and the
11 interconnector's equipment is installed, repaired and maintained by LEC
12 personnel. Second, under physical collocation, the LEC typically sets aside a
13 portion of unused CO space for interconnectors, and provides each
14 interconnector with its own space (usually an area 10 feet square and 8-10
15 feet high) in which to place its equipment. Under virtual collocation, the LEC
16 may also take this approach, or it may dedicate individual equipment bays
17 near its main or intermediate distribution frames to an interconnector's use.

18 Q. Where was collocation first ordered?

19 A. The New York Public Service Commission ("NYPSC") issued an order adopting
20 a collocation policy on May 16, 1989.

21 Q. What influenced the NYPSC in adopting this policy?

22

1 A. The NYPSC's initial and subsequent orders that established collocation as a
2 means of stimulating competition for local telecommunications services were
3 heavily influenced by the New York City Mayor's Office and representatives of
4 communications-intensive industries in New York. The primary concern of
5 these parties was to ensure that the New York metropolitan area retained a
6 state-of-the-art telecommunications infrastructure in order to prevent
7 communications-dependant industries such as stock brokerages and financial
8 service institutions from relocating in neighboring states.

9 Q. Did the NYPSC mandate physical collocation?

10 A. No. The NYPSC stated that the interconnection must be technically and
11 economically comparable to actual collocation and the terms must be
12 reasonable," and ordered New York Telephone ("NYT") to negotiate
13 reasonable terms and conditions with parties seeking collocation. The NYPSC
14 later extended this requirement to all other LECs operating in New York.

15 Q. What was NYT's response to that order?

16 A. NYT responded to the NYPSC order by filing its first collocation tariff, called
17 the Optical Transport Interconnection Service ("OTIS"), which provided for
18 virtual collocation.

19 Q. Was that tariff implemented?

20 A. Partially. The filing immediately was challenged by potential interconnectors,
21 which argued that the service failed to meet the "comparability" standards
22 established by the NYPSC. The NYPSC allowed the OTIS tariff to take effect,

1 but required that representatives of NYT and the interconnectors form a Task
2 Force to negotiate a resolution to the interconnectors' complaints. As
3 discussed below, the New York Telephone virtual collocation tariff was
4 withdrawn within a year.

5 Q. What were the results of the NYPSC mandated negotiations?

6 A. The Task Force convened a series of formal meetings and informal
7 communications that stretched from June 1990 to January 1991. The Task
8 Force was chaired by a member of the NYPSC staff, who acted as an arbiter.
9 The negotiations were successful in eliminating many of the remaining
10 differences among the parties. NYT gradually modified its position on many of
11 the substantive economic comparability issues. In November, 1990, it formally
12 announced its intention to allow for physical collocation of competing carriers
13 within its central office buildings.

14 NYT's "OTIS II" physical collocation tariff finally took effect in May, 1991
15 -- two years after the NYPSC mandated collocation. From that two-year
16 period of formal complaints, task forces and informal negotiations, physical
17 collocation emerged as the only standard that satisfied the interconnectors'
18 needs and the NYPSC's comparability and reasonableness standards.
19 Significantly, NYT in its Comments to the FCC in the Expanded Interconnector
20 Proceeding stated that it found that "[w]hile virtual collocation arrangements
21 may be appropriate for some LECs, the NTCs [NYNEX Telephone
22 Companies] have found that physical collocation provides a more suitable

1 solution to the needs of the NTCs and their customers." Confirming this is the
2 fact that NYNEX has not opposed the mandatory physical collocation
3 provision in the FCC's Collocation Order.

4 Q. What is the status of collocation in New York?

5 A. At least two AAVs currently are providing intrastate services over collocation
6 arrangements in at least 14 NYT COs. Rochester Telephone became the
7 second LEC in New York to file a collocation tariff. The Rochester tariff also
8 provides for physical collocation, and took effect on October 1, 1991.

9 Q. Have other states considered collocation tariffs?

10 A. Yes.

11 Q. Please describe collocation tariffs in states other than New York.

12 A. Central office collocation arrangements have only been tariffed in three states
13 outside of New York. In Massachusetts, New England Telephone adopted an
14 OTIS tariff that largely mirrors that established by New York Telephone. The
15 New England collocation service, like OTIS II, provides physical collocation,
16 and took effect on August 14, 1991. At present at least two AAVs are
17 providing intrastate service over collocation arrangements in eight New
18 England Telephone central offices in the Boston metropolitan area.

19 In Illinois, Centel filed a tariff providing for physical collocation on May 8,
20 1992. The Centel service, called the Centel Facility Interconnect Service
21 ("CFIS"), establishes straightforward and non-burdensome security practices
22 that permit AAV personnel access to the Centel COs to install and maintain

1 their equipment. Although CFIS has only been offered for a few months, three
2 different interconnectors have already obtained collocation in at least one
3 Centel CO.

4 In contrast to the collocation tariffs established in New York and
5 Massachusetts, and by Centel in Illinois, Illinois Bell filed an intrastate tariff
6 providing virtual collocation in Illinois. The Illinois Bell Tariff establishes an
7 Optical Interconnection Service, and took effect on April 7, 1991. Although the
8 Illinois Bell tariff has been available for twenty months, I am aware of only one
9 AAV currently providing service over virtual collocation arrangements in three
10 Illinois Bell COs.

11 Bell of Pennsylvania has recently filed a trial collocation tariff with a
12 limited duration of one year. Filed to settle a AAV complaint, the collocation
13 service provides both physical and virtual collocation in different central offices.
14 The tariff took effect on November 30, 1992.

15 Both New Jersey Bell and Pacific Bell have established a single virtual
16 collocation arrangement apiece as customer-specific contracts. These
17 arrangements are each limited to a single customer and a single business
18 application, and are not generally available to the public.

19 In addition, a number of other states have completed proceedings
20 requiring either virtual or physical collocation for intrastate service. To date,
21 no LEC has filed collocation tariffs pursuant to those proceedings.

22 Q. Please briefly describe the FCC's Expanded Interconnection proceeding.

1 A. The FCC's Expanded Interconnection order is the culmination of a process
2 that began in 1989. Initiated in response to a 1989 AAV petition for
3 rulemaking, the FCC's proceeding involved two separate notices of proposed
4 rulemaking, and produced thousands of pages of comments, data and
5 affidavits filed by nearly 70 parties. These comments included hundreds of
6 pages devoted to the relative merits of physical versus virtual collocation
7 submitted by interested parties. The FCC released its final orders concerning
8 collocation standards on June 9, 1993, and required LECs to provide physical
9 collocation in most instances.

10 Q. Can a virtual collocation arrangement provide the operational, economic and
11 technical equivalent of physical collocation?

12 A. No. Under a physical collocation arrangement, the AAV has unfettered
13 discretion in deciding how and when equipment will be deployed and, most
14 importantly, in setting performance standards for its services and for its
15 personnel. These decisions define the type and quality of the service an AAV
16 provides. In contrast, under virtual collocation, AAVs will be denied the ability
17 to control some of the most fundamental aspects of their business.

18 This problem reflects a fundamental and unavoidable flaw in virtual
19 collocation: virtual collocation insinuates the LEC between an AAV and the
20 service the AAV provides. In effect, virtual collocation perpetuates the
21 bottleneck that has resulted in LEC domination of the local exchange market.
22 To date, AAVs have crafted an attractive competitive alternative to LEC

1 services by deploying innovative new technologies, increasing service
2 reliability, and offering greater responsiveness to customer needs. Under
3 physical collocation, AAVs will retain the ability to offer these competitive
4 alternatives to a vastly increased number of customers. Under virtual
5 collocation, however, the LEC's own performance standards will become the
6 de facto standards for AAV services. Customers located on the LEC network
7 will have to accept LEC provisioning and repair intervals, even though the AAV
8 industry has evolved in part because end users demanded higher operating
9 standards and quicker installation times. Equally important, virtual collocation
10 will impose highly inefficient conditions on collocators, including training costs,
11 equipment carrying costs, and overtime charges, and litigation costs that
12 simply are not incurred in a physical collocation environment. These
13 inefficiencies will needlessly inflate AAV service rates, masking AAV operational
14 economies, and denying the end user the ability to make economically rational
15 and efficient choices.

16 Q. Are there additional costs associated with virtual collocation arrangements?

17 A. Yes. In addition to these operating and economic inefficiencies, virtual
18 collocation invariably will lead to excessive levels of litigation, unnecessarily
19 burdening the resources of both the Commission and the industry. Because
20 the LEC is a competitor of collocated AAVs, it has a vested interest in seeing
21 that AAV efficiency and service standards do not exceed its own. Because,
22 under virtual collocation, the LEC is interposed between the AAV and its

1 equipment located within the central office, the LEC has the ability (and
2 incentive) to act on this interest by failing to provide AAVs with timely and
3 competent installation, repair and maintenance of collocated equipment.
4 Virtual collocation is therefore the telecommunications equivalent of placing the
5 fox in charge of the henhouse, and invariably will engender charges of sabo-
6 tage, price gouging and discrimination by AAVs against LECs, requiring
7 stringent Commission oversight of LEC responses to AAV service requests.

8 Q. Is virtual collocation the operational equivalent of physical collocation?

9 A. One of an AAV's strongest selling points is its ability to respond to a
10 customer's unique needs, and to offer the type of individualized service and
11 timely performance that LECs cannot (or do not) provide. For example, most
12 LECs require two weeks or more to install a new DS1 or DS3 service to a cus-
13 tomer. AAV on average "turns up" new service to customers on its existing
14 network in a matter of several days. Moreover, in response to customer
15 emergencies, it is not unusual for an AAV to install a new DS1 or DS3 service
16 overnight.

17 Under virtual collocation, an AAV's ability to provide this extraordinary
18 level of service would be eliminated. Because AAV personnel would not have
19 access to the AAV's terminating equipment within the LEC central office, the
20 AAV would have to rely on the LEC to provide LEC personnel to make the
21 necessary additions to, or modifications of, the AAV's interconnected facilities
22 in order to turn up the requested service. Because the LECs do not provide

1 their own customers with the level of responsiveness available from AAVs,
2 they cannot install and repair AAV equipment in the time required to maintain
3 AAV standards. Indeed, even if LECs were capable of providing AAVs with
4 the superior level of service standards demanded by AAV customers, they
5 would have to discriminate against their other customers to do so. No LEC
6 has stated its willingness to comply such standards under a virtual collocation
7 arrangement. As a result, the quality of service that competitive AAVs may
8 provide via virtually collocated facilities will unquestionably be diminished.

9 Under virtual collocation, AAVs are constrained in their ability to
10 upgrade, modify, or expand their networks. In a physical collocation
11 environment, an AAV may install new equipment, or remove old equipment, as
12 it deems appropriate. Under virtual collocation, such network changes must
13 be scheduled with LEC personnel, who ultimately determine when such
14 changes may take place. Similarly, physical collocation arrangements provide
15 a significant advantage to AAV technicians by giving them direct access for
16 testing and monitoring of the AAV's services.

17 Q. Are there concerns other than timing which affect the operational equivalence
18 of virtual and physical collocation?

19 A. Yes. For example, under physical collocation, all of an AAV's equipment is
20 located in one 10x10 foot space, which provides adequate room for both initial
21 deployment of an AAV's facilities and for subsequent expansion of its
22 equipment. In contrast, under virtual collocation there is no guaranty that all

1 AAV equipment will be installed in the same place. If a LEC disperses AAV
2 equipment racks throughout its central office, the AAV may be denied the
3 opportunity to expand or modify equipment efficiently, or may be required to
4 bear the expense of cabling and repeaters that would be unnecessary if they
5 were able to expand their operations within a centralized operating area.

6 Even after initial installation, when and if the equipment requires
7 servicing, the limited number of LEC personnel familiar with the equipment will
8 undoubtedly lead to further delays. The fact that these few individuals may
9 have had no hands-on experience with the equipment, except for a training
10 course weeks or months earlier, would most likely adversely affect the quality
11 and promptness of service efforts. It is doubtful that LEC employees, no
12 matter how skilled, will be as capable at servicing unfamiliar equipment as
13 would be the AAV's own employees who deal with that equipment on a daily
14 basis. This is especially true in instances in which multiple AAVs are
15 collocated; LEC personnel cannot reasonably be expected to remain current
16 on the technical intricacies of all of the equipment a number of different AAVs
17 will choose to use based upon their different networks. Indeed, this is exactly
18 what New York Telephone experienced in negotiating its OTIS II tariff.

19 During the course of these negotiations, it became apparent that virtual
20 collocation as it was evolving in New York presented extremely complex
21 operational and administrative problems. Although the interconnector could
22 select the equipment functionality and remotely monitor and control that

1 equipment, ownership as well as the responsibility to purchase, install, and
2 maintain equipment remained with NYT. Since interconnectors could choose
3 equipment with which NYT's personnel were not familiar, and seek to impose
4 repair and maintenance standards different from those NYT imposed on itself,
5 NYT concluded that physical collocation, whereby the interconnector would
6 provision its own service, and own, install, and maintain the equipment, was a
7 better option for all concerned parties in New York.

8 Related arguments were raised before the FCC in its Expanded
9 Interconnection proceeding. In that proceeding, Metropolitan Fiber Systems,
10 Inc. ("MFS") argued that, based upon information obtained from Pacific Bell
11 and Illinois Bell, the cost of training LEC personnel to operate interconnector-
12 specified equipment could be estimated at approximately \$60,000 to \$70,000
13 per wire center initially, plus an additional \$40,000 per year per wire center for
14 yearly refresher courses. These estimates were based on training eight LEC
15 employees (two per shift, plus two additional to assure coverage during
16 vacations, illnesses, etc.) at each wire center. MFS also estimated that these
17 training expenses would have to be incurred again any time the interconnector
18 chose to add a new brand or model of equipment to its network.

19 Ameritech responded to the MFS argument by indicating that it would
20 provide its personnel with only minimal training and thus could not reasonably
21 be able to ensure that its personnel would be entirely familiar with AAV-

1 designated equipment. Ameritech further stated that trouble conditions might
2 require the AAV's personnel to assist LEC personnel in performing tests.

3 Thus, in the event of a serious problem, Ameritech will allow AAV
4 personnel to enter the central office and work on its terminating equipment.

5 Notwithstanding the question of what constitutes a "serious" problem
6 and who makes the decision that a "serious" problem is imminent, as a
7 practical matter, if AAV personnel can enter the central office and work on
8 AAV-designated equipment when a "serious" problem arises without
9 jeopardizing the LEC network, there is absolutely no reason why AAV
10 personnel should not be able to enter the central office for regular (preventive)
11 maintenance. Indeed, failure to allow AAV personnel to work regularly in the
12 central office will ensure confusion in the event of an extraordinary problem
13 and will limit the AAV's ability to respond to an emergency. This results in
14 total overall degradation of the standards AAVs can maintain.

15 In addition to these concerns, other disputes are inevitable. One
16 obvious example relates to provisioning intervals. In the event that an AAV
17 determines that the LEC is not installing, maintaining or repairing its equipment
18 in a timely manner, how would the dispute be resolved? Will the Commission
19 be forced to hold an evidentiary hearing every time an AAV believes that a
20 LEC is providing it with inadequate service? Will the AAV or the LEC have to
21 provide customer-specific information to prove the speed with which they turn
22 up service? Clearly the two competitors are not in a position to act as judge

1 and jury in such disputes. Rather, the Commission would be called upon to
2 adjudicate these disputes on an ad hoc basis, and such litigation would place
3 an enormous burden on the resources of the Commission and the AAVs.
4 Such costly and burdensome litigation would be wholly obviated if physical
5 collocation is adopted as the norm.

6 Q. Is virtual collocation the economic equivalent of physical collocation?

7 A. No. The operational problems discussed earlier raise the related problem of
8 determining who should bear the economic costs associated with virtual
9 collocation. First, as noted, if an AAV desires to use a particular brand or
10 model of equipment that the LEC does not routinely use in its own network, it
11 will be necessary for the LEC to train some of its personnel to operate and
12 maintain that equipment. Regardless of who bears the cost of such training,
13 inevitably there will be other operational costs that the AAV -- and ultimately
14 the end user -- will have to bear. For example, the installation of the
15 equipment could be delayed by weeks or months, until the LEC completes the
16 training of the requisite number of employees without disrupting its other
17 operations.

18 Moreover, such a training requirement would be highly inefficient, and
19 would impose grossly excessive costs on collocating AAVs. In contrast to
20 AAVs' efficient use of manpower, a LEC could require training for its personnel
21 in every office in which an AAV is colocated, and presumably would need
22 trained staff available on the morning, afternoon and evening shifts. Clearly, if

1 a single AAV collocates in several LEC central offices, it will be required to
2 train a significant number of LEC personnel in order to have a qualified
3 maintenance and repair staff available 24 hours a day. This is not only an
4 enormous waste of time and money, it also unreasonably inflates the AAV's
5 service rates, rendering the AAV less able to compete. It also provides a
6 benefit to the LEC, who will acquire personnel with additional skills and
7 training, at no expense.

8 Who should bear the cost of this training? In order to introduce new
9 technology, the AAV will already have borne the costs of educating its
10 employees about the new technology, thus it would be unfair and
11 unreasonable for the AAV to also have to bear additional costs associated with
12 educating LEC employees. This is especially true when the LEC will be able to
13 utilize that training for its own purposes as well. On the other hand, with
14 multiple interconnectors the LEC may incur training costs which ultimately
15 prove unrelated to any service competitively provided by the LEC. It would be
16 unreasonable to force the LEC (and ultimately its ratepayers) to incur such
17 costs, which are not useful in the provision of LEC services.

18 Moreover, with regard to the installation, repair and maintenance of
19 AAV-designated equipment, what specific labor costs should the AAV or the
20 LEC be obligated to bear? LECs traditionally incur higher labor costs than do
21 interconnectors. Thus, LECs will seek to impose their tariffed labor rates,
22 which are based upon a calculation which includes actual labor cost as well as

1 overhead and rate of return. If LEC rates apply, the LEC labor involved in
2 installing and maintaining AAV equipment will become a profit-making
3 enterprise for the LEC. Obviously, this is not the economic equivalent of
4 physical collocation and provides the LEC with a disincentive for providing the
5 AAV with efficient service.

6 Another example relates to overtime. As a growth industry AAVs have,
7 of necessity, been required to arrange employment agreements which are
8 structured to avoid or reduce overtime costs to the maximum possible extent.
9 In contrast, LECs have no incentive to minimize the use of overtime in
10 attending to AAV equipment. As before, the competitive relationship between
11 LECs and AAVs raises difficult administrative questions that invariably will
12 result in needless litigation. It is abundantly clear that there is no reasonable
13 method for resolving the inevitable disputes which will arise between LECs and
14 AAVs, absent the Commission's micromanagement of the collocation
15 relationship. For example, regardless of what general labor and overtime rate
16 applies, who decides in a particular circumstances whether the LEC was
17 justified in charging an AAV for overtime work which could reasonably have
18 been conducted during regular business hours? If in a particular instance,
19 there is limited labor available, and overtime expenses must be incurred, it is
20 only reasonable to expect that the LEC will seek to impose all overtime
21 expenses on its competitor rather than splitting the overtime labor between
22 LEC and AAV projects. When is that a reasonable (or unreasonable) practice?

1 From the LEC's perspective, it would be reasonable to charge the AAV for all
2 such expenses, because absent the AAV the LEC would not incur the charge.
3 On the other hand, from the AAV's perspective, it cannot be held responsible
4 for the extraordinary costs that result from a shortage of LEC labor.

5 Another example relates to the need for redundant training. In the
6 event of LEC employee turnover, who pays the cost of training new LEC
7 employees? Under what conditions is turnover reasonable or unreasonable?
8 These are questions that the LEC, as a monopoly provider, has never had to
9 answer. Moreover, how do the parties prove their contentions? Will the
10 Commission review LEC and AAV operating practices to determine their
11 reasonableness? It seems obvious that the Commission does not have the
12 resources to apply to this type of conflict.

13 A more specific problem relates to spare parts. Under Illinois Bell's
14 Optical Interconnection Service tariff, for example, the interconnector is
15 required to pay Illinois Bell a recurring monthly charge for maintaining spare
16 parts for the interconnector-designated equipment. Not only does this
17 eliminate the AAV's ability to achieve lower equipment cost by procuring its
18 own spare equipment directly, but over time the monthly rental rates paid by
19 the AAV will exceed the actual cost of the spare parts, thereby unreasonably
20 and unnecessarily inflating the AAV's cost for collocation. Moreover, where an
21 AAV interconnects with multiple LECs, multiple spare part recurring costs will
22 be imposed on the AAV. This is clearly inefficient, because in the absence of

1 virtual collocation the AAV would be able to maintain a centralized -- and
2 limited -- supply of spare parts. This is the equivalent of requiring a trucking
3 firm to maintain a separate supply of spare parts in each county it serves.

4 As this discussion well illustrates, the problem with virtual collocation is
5 not simply that the LEC has the incentive to provide AAVs with unreasonable
6 service; virtual collocation raises unsolvable, structural problems arising from
7 the fact that the LECs are not equipped economically to install and maintain
8 the AAV network. Virtual collocation invariably imposes any LEC's
9 inefficiencies on the collocated AAVs.

10 This is precisely the reason that the FCC mandated physical collocation
11 but gave the parties the option of negotiating virtual collocation. Only when
12 the AAV has the ability to utilize physical collocation does the LEC have the
13 necessary incentive to negotiate a virtual collocation agreement which may be
14 economically equivalent to physical collocation and will not present the need
15 for extensive regulatory involvement.

16 Q. Is virtual collocation the technical equivalent of physical collocation?

17 A. No. Under virtual collocation the AAV is not free to exercise reasonable
18 technical control over its own network, nor is it free to update its network in
19 response to technological developments. For example, under virtual
20 collocation the AAV has no opportunity to supervise the LEC's maintenance
21 and repair activities, and therefore is entirely at its competitor's mercy for the
22 quality of its service. Indeed, because of this inability to maintain and

1 supervise its own equipment, it is possible for an AAV's network to be
2 degraded as a result of faulty or incompetent installation, maintenance or
3 repair by LEC personnel, without the AAV becoming aware of such operating
4 practices until a serious problem arises.

5 Indeed, even if LECs provide their normal quality of service in
6 maintaining and operating AAV facilities, they would degrade the quality of
7 AAV service considerably. For example, AAVs typically provide uninterrupted
8 service 99.99% of the time. The LECs' generally fail to meet this standard, as
9 illustrated by Southern Bell's direct direct high capacity service, which provides
10 an error-free rate of only 98.75%. For industries critically dependant on
11 uninterrupted communications, such a difference is considerable. In fact, on
12 an annual basis, a 98.75% service rate could mean total service disruptions
13 amounting to a full 4.56 days.

14 Another serious concern relates to the dissemination of proprietary
15 information. As noted, under virtual collocation, the AAV is forced to coordi-
16 nate with the LEC every time it desires to upgrade or replace equipment on its
17 network. This inhibits technical innovation, because an AAV cannot introduce
18 new equipment into its network without first disclosing it to its principal
19 competitor -- the LEC. Moreover, the AAV must also give the LEC the
20 opportunity (and possibly pay the LEC) to train LEC personnel on that
21 equipment. In other words, under virtual collocation when an AAV desires to
22 upgrade its network, the AAV must first inform its principal competitor, pay that

1 competitor to train its own personnel to work on that equipment, and wait until
2 the training has been accomplished. This will clearly inhibit introduction of new
3 technology by the AAV. Clearly this process is far more time consuming and
4 costly than replacing or upgrading equipment under physical collocation, in
5 which case the AAV would simply obtain the equipment it prefers and install
6 that equipment in its secure, partitioned portion of the central office. In
7 addition, because virtual collocation would make it unduly burdensome for an
8 AAV to replace equipment, even when no special innovation is involved, AAVs
9 likely will be slower than otherwise to reconfigure their networks.

10 Q. What concerns have LECs raised in connection with physical collocation?

11 A. In opposing physical collocation before the FCC and elsewhere LECs raised
12 the specter that under physical collocation network integrity will suffer and that
13 they would have insufficient control over interconnector personnel.

14 Q. Have these concerns ever been expressed before?

15 A. Yes. These are the identical "concerns" which were raised a decade ago by
16 AT&T in an attempt to prevent MCI and other interexchange carriers from
17 interconnecting with its interstate network, and were later found meritless in
18 the Execunet decisions, which allowed MCI to compete directly against AT&T.
19 Before that, these arguments were raised in an attempt to prevent customers
20 from connecting independently-manufactured customer premises equipment to
21 the Bell network. Similarly, these arguments were ultimately dismissed in the
22 Carterfone decision, which established the right of independent manufacturers

1 of customer premises equipment to interconnect their equipment with the Bell
2 Atlantic network. As has been demonstrated by practical experience over the
3 last twenty years and as demonstrated below, these allegations are baseless.

4 Q. Will physical collocation compromise the security of LEC central offices?

5 A. No. The Commission should not presume that only LEC employees have
6 access to LEC central offices and wire centers. As a normal business practice,
7 LECs regularly provide central office access to outside contractors, who are
8 issued photo IDs and are permitted free and regular access to the most
9 sensitive of central office equipment. There is no demonstrable reason why
10 AAV personnel should not be afforded similar access based upon similar
11 security conditions. Indeed, this is the conclusion drawn by New York
12 Telephone, and is incorporated into its Collocation License Agreement. I have
13 attached to my testimony excerpts of various collocation license agreements
14 which freely address this concern. Thus, for example, in New York, the AAV is
15 responsible for supplying NYT with a list of employees and approved vendors.
16 NYT issues such personnel color-coded photo identification cards which
17 permit access to the partitioned collocation space. It is as simple as that.

18 Moreover, a LEC truly concerned about control over AAV personnel is
19 free to take the additional step of designating separate secured
20 interconnection areas which do not permit AAV personnel access to common
21 areas. This would reasonably serve the dual purpose of protecting the LEC
22 from any imagined security problems while still permitting physical collocation.

1 As the FCC has stated, the cost of preparing the secured area could be
2 charged to the interconnectors. It is my understanding that Illinois Bell is
3 beginning to do this now in anticipation of interstate collocation, by
4 designating for AAV use an elevator that is programmed to open only on the
5 floor in which AAV equipment is collocated.

6 Q. Have the LEC's raised other concerns about physical collocation?

7 A. Yes. As a general matter the LECs have raised an assortment of concerns
8 that allegedly arise under physical collocation. For instance, LECs have raised
9 the specter that, under physical collocation, strikes by AAV employees would
10 interfere with LEC operations. This is an unrealistic concern, because most
11 LECs are heavily unionized and most AAVs are not; in fact LEC strikes pose a
12 far greater threat to collocated AAVs. This is evidenced by the fact that NYT's
13 collocation license agreement ("CLA") has a provision designed to protect
14 AAVs in the event of the a NYT strike, which provides that in the event of work
15 stoppages NYT will provide AAVs with access to a separate entrance where
16 possible.

17 LECs have also argued that under physical collocation they will be
18 unable to exclude undesirables from central offices (undesirables being
19 defined as personnel who have violated central office safety codes in the
20 past), and that they will be unable to enforce fire codes and other operational
21 standards on AAV personnel. These fears are unfounded and simply illogical -
22 - AAV employees will adhere to the same conduct and safety codes that

1 subcontractors adhere to, and LECs will maintain the same control over their
2 central offices that they maintained before physical collocation.

3 Lastly, LECs have evidenced concern that under physical collocation
4 LEC personnel will be required to restrict their communications in common
5 areas to protect the confidentiality of proprietary information from their AAV
6 competitors. LECs have every right to be concerned over their personnel
7 discussing trade secrets in public areas, but this concern should exist
8 regardless of whether collocation is offered in a given central office. Any
9 subcontractor that currently performs work for a LEC -- and has ready access
10 to the LEC central office -- could obtain employment with a competitor. Thus,
11 this theoretical concern over unintentional disclosure of sensitive information
12 exists with any non-LEC employees, and is not confined to AAV personnel.
13 And again, considerable IXC and AAV experience with collocation has not
14 identified this issue as a legitimate concern. Moreover, the LECs ignore the
15 other side of this equation: as demonstrated above, under virtual collocation
16 AAVs not only have to advise the LEC of the new equipment they intend to
17 install, they also have to pay to have LEC personnel trained in the use of that
18 equipment. Thus, virtual collocation requires the actual disclosure of AAV
19 proprietary information to LECs, which should outweigh any LEC hypothetical
20 concerns. Finally, if LECs build secured interconnector areas, as Illinois Bell
21 appears to be doing, this alleged concern is eliminated.

1 LEC concerns over AAV personnel in central offices are extreme,
2 illogical, speculative, and overstated. These concerns were raised at length
3 before the FCC, which found them unsupported and unconvincing.

4 Q. Will physical collocation threaten network integrity?

5 A. No. In marked contrast to the hypothetical concerns raised over the last
6 several years by LECs who have no experience with physical collocation,
7 actual experience in New York and Massachusetts reveals that alleged
8 concerns over network security under physical collocation are baseless and
9 that physical collocation presents no threat to LEC network integrity.

10 In the first place it should be obvious that any disruption of the LEC
11 network (or the AAV network) as a result of AAV activities would likely destroy
12 the reputation -- and thus economic viability -- of the AAV. Thus, in order to
13 protect the integrity of both AAV and LEC networks, AAVs routinely follow the
14 same established technical equipment standards followed by the LEC.
15 Moreover, AAVs are not adverse to following the installation and operating
16 standards mandated by a particular LEC for a particular central office,
17 provided that the LEC adheres to such standards itself.

18 Indeed, this has been the case in New York and Massachusetts. For
19 example, the New York Telephone Collocation License Agreement requires
20 AAVs to follow not only the Bellcore equipment standards, but also particular
21 NYNEX and NYT installation and operating standards. For example, not only
22 must all interconnector entrance facilities and splices comply with "Bellcore

1 Generic Specification For Optical Fiber and Optical Fiber Cable" but all
2 interconnector equipment must be on NYT's list of approved products or
3 comply with the "Bellcore Network Equipment Building System Generic
4 Equipment Requirement." In addition, all interconnectors must comply with
5 NYNEX "Information Standards For Central Office Installation And Removal
6 Procedures," and "NYT's Central office engineering, environmental and
7 transmission standards as they relate to fire, safety, health and environmental
8 safeguards, or interference with NYT's service or facilities." Likewise, AAVs in
9 Florida would voluntarily comply with the equipment or installation standards
10 and operation manuals established and followed by the Florida LECs.

11 These same network integrity arguments were debated at length before
12 the FCC, and the FCC concluded that they were groundless. In the Expanded
13 Interconnection Order the FCC concluded that collocation of AAV-designated
14 equipment would not harm the local network or diminish its reliability since the
15 FCC would require interconnectors to comply with all network integrity and
16 operational safeguards being developed by the FCC's "Network Reliability
17 Council." Further, the FCC found that "[i]n the unlikely event" AAV operating
18 practices "represented a significant and demonstrable technical threat to the
19 LEC network... the LEC would be allowed to proscribe for use of such...
20 practices." Despite this cautionary warning the FCC concluded that they
21 expected such problems to be "rare." Id.

1 Q. Will the FCC's order prevent a LEC from using its central office space for its
2 own interstate or intrastate services.

3 A. No. The FCC specifically provided in its order that a LEC may obtain a waiver
4 from the physical collocation requirement if it demonstrates that there is
5 inadequate space for physical collocation in a particular central office in which
6 interconnection has been requested. The FCC expressly recognized that a
7 LEC's need for central office space to provide interstate or intrastate services
8 in the future would constitute a legitimate basis for obtaining a waiver.

9 Q. How will this affect LEC's future space needs?

10 A. To the extent those needs are presently known and planned for, the FCC
11 order again specifically provides for a waiver. With respect to future planning,
12 a LEC must simply consider interconnection needs in planning additional
13 space, just as it is required to consider needs for other services in its
14 construction planning.

15 Q. Will physical collocation prevent a LEC from closing down or consolidating
16 central offices?

17 A. No. All of the LEC physical collocation tariffs and contracts currently in effect
18 include language that expressly reserves the LEC's right to terminate a
19 physical collocation arrangement if it requires the space for any reason --
20 including closing down or consolidating its central offices. The FCC's order
21 would not disrupt such provisions.

1 Q. Based on your understanding of the FCC's order, the comparability of physical
2 and virtual collocation and the benefits to be derived from collocation, what
3 policy do you recommend the Commission adopt?

4 A. For the reasons discussed above, I urge the Commission to require Florida
5 LECs to provide physical collocation for interconnectors.

6 Q: Should the Commission require all Florida LECs to provide physical
7 collocation?

8 A: I recommend that the Commission require only Tier I LECs to offer collocation
9 as a tariffed, generally available service. Other LECs may control central
10 offices that are critically important to competitors, however. The Commission
11 should therefore review requests for collocation in non-Tier 1 LEC central
12 offices on a case-by-case basis. If AAVs or other potential collocators have a
13 bona fide interest in collocating in such central offices, and if the LEC has the
14 technical capability to accommodate collocation, the Commission should
15 approve it. Such ad hoc adjudication of collocation in non-Tier 1 LEC central
16 offices would extend the benefits of increased competition to smaller LECs.

17 Q: For which central offices must the LECs tariff physical interconnection?

18 A: In the federal collocation proceedings, the FCC forged a compromise that
19 limited the number of COs in which interconnection had to be tariffed, thereby
20 minimizing the need for LECs to establish CO-specific rates. Under the initial
21 FCC plan, LECs were required to tariff each CO for physical collocation, even
22 if there was little likelihood that collocation would be requested in a particular

1 office. The LECs opposed this approach, stating that they would be required
2 to survey and establish rates for COs for which no demand for collocation was
3 likely. In response, the FCC announced a compromise position, under which
4 a LEC initially would tariff only the top 10% of the COs in its service area.
5 These tariffed COs would be the ones at which collocators likely will seek to
6 collocate.

7 Recognizing, however, that potential collocators might wish to collocate
8 at some offices other than the ones initially tariffed, the Commission
9 established a period within which potential collocators could request the
10 tariffing of additional COs. Under this compromise position, the LECs need
11 not tariff offices where there is unlikely to be an immediate need for
12 collocation; however, upon request, collocators can achieve expanded
13 interconnection in any CO where they foresee competitive opportunity. This
14 accommodation of competing interests is quite rational, and I recommend that
15 the Commission adopt the same approach.

16 Q: Should collocators allow LECs and other parties to interconnect with their
17 networks?

18 A: Intermedia is willing to provide reciprocal interconnection arrangements for
19 LECs or other parties, upon similar terms and conditions as those established
20 by the LECs.

21 Q: Should the Commission require all special access and private line providers to
22 file tariffs?

1 A: The Commission appropriately requires LECs to tariff their services since these
2 carriers have both the ability and incentive to cross-subsidize their competitive
3 services with their noncompetitive services. For competitive access providers,
4 on the other hand, whose services are priced according to the dictates of the
5 market, a tariffing requirement is superfluous. These providers have no
6 captive customer base from which they can exact monopoly profits.
7 Furthermore, as recognized by the Commission in its Alternative Access
8 Vendor Order, No. 24877, AAV customers are generally sophisticated users
9 who do not need expansive Commission protection. Thus, the Commission
10 declined in its AAV Order to require tariffing by AAVs. The considerations that
11 informed that decision still hold true today.

12 Q: Do the LECs need additional pricing flexibility to be able to compete under
13 expanded interconnection?

14 A: No. The Commission already has granted LECs substantial pricing flexibility --
15 allowing them to offer contract serving arrangements and individual case basis
16 pricing, under which the LECs may price their services at nearly any level they
17 desire, so long as they meet the LECs' average variable costs. This degree of
18 flexibility allows the LECs to meet the competitive challenge posed by AAVs,
19 but imposes certain limits on that flexibility to help ensure that LECs do not
20 unfairly cross-subsidize their competitive services.

21

1 Q. What is the relation of the FCC's Expanded Interconnection Order to this
2 Florida proceeding?

3 A. The FCC order only deals with interconnection for interstate services. Every
4 state is free to determine a collocation policy for intrastate services. State
5 regulators are free to establish mandatory collocation policies for intrastate
6 traffic within their states, or to prohibit collocation for intrastate services
7 altogether. As a practical matter, however, once a physical collocation
8 arrangement is established for interstate services, it would not be efficient to
9 establish a conflicting collocation standard for intrastate services. Because the
10 FCC has required Tier 1 LECs in Florida to provide physical collocation in
11 most cases for interstate services, I believe that it is not desirable from a
12 public policy perspective to establish an inconsistent standard for collocation
13 for intrastate services.

14 Q. If Florida adopts a physical collocation standard, does this mean that a virtual
15 collocation agreement is never permissible?

16 A. No. If the Commission adopts the FCC standard, virtual collocation
17 arrangements would be authorized when either there is insufficient space for
18 physical collocation or the LEC and AAV voluntarily agree that a virtual
19 collocation arrangement is best. Although the FCC believed that physical
20 collocation was necessary to right the competitive imbalance created by the
21 LEC's control of its central offices, its Order expressly allows for virtual
22 collocation arrangements in these two instances.

1 Q: It is, then, your opinion that a physical collocation standard would offer
2 significant procompetitive benefits to the citizens of Florida?

3 A: The interests of the Florida public will best be served by a Commission policy
4 that promotes competition for local services to the fullest extent possible. The
5 LECs' interest is diametrically opposed to this public interest: they have every
6 incentive to impede expanded interconnection while they hurriedly seek to
7 upgrade their existing networks with technology developed by the AAVs --
8 technology that, significantly, the LECs long ignored.

9 Intermedia pioneered the use of fiber ring networks in Florida,
10 inaugurating the first such network in Orlando in 1988. GTE, however, just
11 announced plans to install fiber-optic networks, costing \$240 million, in parts
12 of Florida, among other places, which duplicate the architecture of the network
13 deployed by Intermedia 5 years ago. The import of the LECs' sudden
14 conversion is clear: they sense the inevitability of expanded interconnection
15 and thus seek, through regulatory and legislative delay, to hold the AAVs at
16 bay while they solidify control over their captive customers, a task made easier
17 by the massive resources they can devote to updating their networks.

18 Once GTE deploys these fiber rings, it will enjoy unrestricted
19 interconnection and access to its own monopoly network. In addition, its
20 sales force will have unrestricted access to customer information and be able
21 to resell GTE's monopoly services. This is clearly an unfair advantage in
22 providing what is also clearly a competitive service.

1 In addition, however, to LEC attempts to delay the advent of expanded
2 interconnection while they play catch up with the AAVs, the LECs have also
3 urged, as a second defense, adoption of a collocation standard that poses the
4 least threat to their entrenched interests: a virtual collocation standard. Not
5 surprisingly, this collocation standard is also the one least likely to promote
6 effective competition in the intrastate market. The ability of AAVs to compete
7 effectively for local services is contingent upon their ability to gain expanded
8 interconnection within the central offices owned and controlled by the LECs.
9 Under a virtual collocation standard, however, the LECs have the every
10 incentive to use their strong bargaining position to impose excessive rates and
11 burdensome and restrictive terms and conditions on any collocation
12 arrangement they establish. Under such circumstances, little or no
13 procompetitive benefit is realized.

14 Furthermore, the LECs' ability and incentive to provide ineffective virtual
15 collocation to AAVs cannot be overcome by Commission mandate -- the
16 amount of litigation and regulatory micromanagement that would be required
17 would exhaust the resources of both the Commission and the AAVs. As I
18 have testified, the considerable experience gained with collocation in other
19 states, and the voluminous record compiled in the FCC's collocation
20 proceeding fully demonstrate that only a mandatory physical collocation
21 standard can place interconnectors on competitively equal footing with the

1 LECs. As a result, I urge the Commission to adopt the mandatory physical
2 collocation standard embraced by the FCC.

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1 Q (By Mr. Wiggins) Okay. Did you have a
2 summary of your direct testimony that you filed?

3 COMMISSIONER LAUREDO: You mean do you want --

4 Q Do you have a summary this morning, Mr.
5 Canis, to --

6 A Well, I have an oral.

7 Q Exactly.

8 A Yes, I do.

9 Q Good. The questions get harder, actually.
10 (Laughter) Would you give the oral summary?

11 A Thank you.

12 Good morning, Commissioners. On behalf of
13 Intermedia Communications of Florida, I would like to
14 applaud the Public Service Commission for examining
15 this issue of critical importance to competition for
16 local telecommunications services.

17 Over the last few years, as competition has
18 begun to emerge for local services, the public benefits
19 of such competition have become clear. Competition has
20 resulted in reduced prices for services, the
21 introduction of innovative new services and greater
22 responsiveness to consumers' needs, superior levels of
23 performance, and increased choice for consumers.

24 The movement towards stimulating competition
25 for local services is new, it was spearheaded by the

1 New York Public Service Commission in 1989. The
2 Federal Communications Commission at the end of last
3 year took a major step mandating collocation as a means
4 of stimulating competition, and over the last year a
5 number of other states have begun to consider
6 collocation as a means of stimulating competition.

7 While only a handful of jurisdictions have
8 adopted rules governing collocation or have approved
9 negotiated collocation arrangements, this experience
10 provides compelling evidence regarding what policies
11 will best stimulate competition.

12 First, it is absolutely abundantly clear that
13 physical collocation is superior in all respects to
14 virtual collocation.

15 Secondly, the lack of bargaining leverage for
16 collocators requires that a regulatory body must ensure
17 that reasonable rates, terms and conditions are
18 established for collocation.

19 We ask that, in establishing the collocation
20 policy for Florida, this Commission take the experience
21 from other jurisdictions into account and establish
22 guidelines that will ensure that the Florida ratepayers
23 realize as fully as possible the benefits of
24 competition.

25 Thank you.

1 MR. WIGGINS: The witness is available for
2 cross examination.

3 COMMISSIONER CLARK: Okay. Mr. Erwin?

4 CROSS EXAMINATION

5 BY MR. ERWIN:

6 Q Mr. Canis, I just have a few. In your
7 experience, what is the threshold level for the
8 smallest local exchange companies where you are aware
9 of any interconnection taking place for special access?

10 A Right now, the only interconnection, expanded
11 interconnection, that has taken place has taken place
12 through intrastate collocation arrangements that have
13 been established in New York, Illinois and
14 Massachusetts. Even to the extent that interstate
15 collocation has taken place, it's only taken place
16 through interim tariffs that were in effect in those
17 three states.

18 In those cases the LEC that has provided
19 collocation has been -- well, they have been Centel of
20 Illinois, Illinois Bell in Illinois, New York Telephone
21 in New York, and New England Telephone in
22 Massachusetts.

23 Q So you're talking about rather large local
24 exchange companies, is that correct?

25 A That's correct.

1 MR. ERWIN: That's all I have.

2 COMMISSIONER CLARK: Mr. Carver?

3 MR. CARVER: Yes, just a few questions.

4 CROSS EXAMINATION

5 BY MR. CARVER:

6 Q Good morning, Mr. Canis.

7 A Good morning.

8 Q My name is Phil Carver, I represent Southern
9 Bell. Regarding physical versus virtual collocation,
10 physical collocation takes up more central office
11 space, does it not?

12 A I can only answer that question somewhat
13 equivocally. Currently, in the way collocation has
14 been currently provided, and, again, it has been, to
15 date, all collocation arrangements have taken place
16 through intrastate collocation arrangements and not
17 through the FCC's rules, which have only recently taken
18 effect. In those states where physical collocation has
19 been negotiated, the standard that's been adopted by
20 the parties involved has been to allocate an area of
21 space 100 square feet, ten-by-ten, within those central
22 offices.

23 The only LEC that I'm aware of that provides
24 tariffed virtual collocation services is Illinois Bell
25 in the Chicago area. Now, I have not been privy to the

1 central office so I don't know what their arrangement
2 is, and I don't know, in fact, how much space is
3 actually dedicated to the exclusive use of equipment
4 dedicated to the collocator. It really depends on the
5 arrangement that is made in the -- by either the
6 engineering staff of the LEC or through a negotiated
7 process between the collocator and the LEC that will
8 determine the ultimate amount of space that is, in
9 fact, dedicated to the collocator's use.

10 So the short answer is I cannot unequivocally
11 answer your question because those standards really
12 haven't been established fully yet.

13 Q Well, generally speaking, based on your
14 experience with collocation, doesn't physical take more
15 space than virtual, all things being equal?

16 A Theoretically, it may. Now, again, I have
17 never been in a central office in which a LEC has
18 provided collocation. That, as a representative of
19 CAPs, that's one of my major complaints. So I really
20 can't say what kind of floor space, Illinois Bell for
21 instance, has allocated to the exclusive use of a
22 collocator.

23 I can tell you this: Under virtual
24 collocation, it is theoretically possible for a LEC to
25 mix different central office equipment, and this would

1 be OLTMs, optical line terminating multiplexers, other
2 multiplexers, cross-connect panels. It is possible for
3 a LEC to mix and match different collocater's equipment
4 on the same bay, which is an equipment rack.

5 In doing so, if the LEC did so, it would, in
6 fact, require less square footage than the 100 square
7 feet typically allocated to a physical collocation
8 arrangement. However, mixing and matching that kind of
9 equipment, different collocater's equipment on the same
10 equipment rack would also yield considerable
11 inefficiencies and increase the cost to the collocater.

12 One other consideration that I would like to
13 mention is that while 100 square feet has been the de
14 facto standard that's evolved in the provision of
15 physical collocation, there is no cut and dry
16 requirement that a minimum 100 square feet be
17 available. It is, in fact, very possible that through
18 negotiations a collocater would be willing to accept a
19 smaller amount, say, 25 square feet.

20 So I will say that, in theory, it is possible
21 for virtual collocation to take up less floor space
22 than physical, but that is not necessarily the way
23 things have worked out in practice.

24 Q Okay. Theoretically, if the space available
25 in the central office for physical collocation becomes

1 exhausted, is it your position that other requests for
2 collocation should then be met by offering a virtual
3 collocation arrangement?

4 A Yes, it is.

5 Q In that scenario, the collocators who, in
6 effect, get there first and get a physical collocation
7 arrangement are going to have a very definite advantage
8 over those who come in later and are forced to accept a
9 virtual collocation arrangement, are they not?

10 A Not necessarily. It really depends on how
11 the virtual collocation arrangement is structured.

12 Q Let me just ask you this: In your summary I
13 think you referred to physical collocation as being
14 vastly superior, I think was the way you referred to
15 it, to virtual collocation?

16 A That is correct.

17 Q So my question then is those collocators that
18 get that vastly superior method of collocation are
19 going to be in a better situation than the ones who
20 don't get it. Would you agree with that?

21 A Not necessarily. It is possible that virtual
22 collocation arrangements, if negotiated, and under the
23 FCC's rules and the rules adopted by most states that
24 have approved collocation arrangements, they
25 specifically allow for interested parties to negotiate

1 virtual collocation arrangements.

2 It is possible that a collocated party may
3 accept a virtual arrangement and accept either
4 financial incentives to accept some of the trade-offs
5 that come with the disadvantages of virtual -- the
6 disadvantages attendant to virtual collocation.

7 So it is possible that a collocater accepting
8 virtual collocation may be willing to be compensated
9 for some of those disadvantages inherent in that
10 position. I would also state --

11 Q Before you go on let me --

12 A Let me finish my response. I would also --

13 Q I think you've answered my question.

14 A Well, I don't think I have entirely. I would
15 also want to make perfectly clear that your question is
16 entirely hypothetical.

17 In New York City where we've had collocation
18 going on for about two years now, physical collocation,
19 New York City is also the one area in the country that
20 has the highest level of competitive access providers
21 activity; and currently provides the greatest amount of
22 physical collocation in any city in the United States.
23 New York City is also the area where it is most
24 congested in terms of building space and population
25 density.

1 Despite all of these factors, New York
2 Telephone has not once had to reject a request for
3 physical collocation because it lacked available
4 central office space.

5 COMMISSIONER CLARK: Are you through?

6 WITNESS CANIS: I am.

7 COMMISSIONER CLARK: Would you answer his
8 questions from now on and let your attorney conduct
9 your redirect?

10 WITNESS CANIS: Yes, Commissioner.

11 COMMISSIONER CLARK: Go ahead.

12 COMMISSIONER LAUREDO: May I ask just a very
13 brief question so I can follow you? In your petition
14 you're not -- I deducted from your answer that you are
15 not necessarily asking specifically for the 100 square
16 feet standard space?

17 WITNESS CANIS: That is correct,
18 Commissioner.

19 COMMISSIONER LAUREDO: Thank you.

20 COMMISSIONER CLARK: Go ahead, Mr. Carver.

21 Q (By Mr. Carver) To tell you the truth, I
22 kind of forgot what your answer to my question was so
23 let me just ask it again.

24 Theoretically, it's your belief that physical
25 collocation is a, quote, "vastly superior to virtual

1 collocation all things being equal"?

2 A That is correct.

3 Q So that in a particular central office where
4 the space for physical collocation becomes exhausted
5 and other collocators then come in and have to accept a
6 virtual arrangement, the ones who get physical
7 collocation are going to be at a distinct advantage
8 over the ones who get virtual collocation, all things
9 being equal, correct?

10 A I would say that the parties taking virtual
11 collocation may be disadvantaged in a number of
12 respects. And those include operational aspects in the
13 ability to turn up service within a certain period of
14 time, and also economically because virtual collocation
15 is inherently more expensive than physical collocation.

16 The economic disadvantage may be offset by
17 economic arrangements, pricing arrangements in a
18 virtual collocation arrangement. I will state that it
19 is likely that the operational disadvantages for
20 virtual collocation could not be overcome.

21 Q Let me ask this: Assuming that the result of
22 this docket is that collocation is ordered for special
23 access and private lines, would it be Intermedia's
24 intention to try to obtain physical collocation in
25 whatever central offices you can throughout the state?

1 A I believe it would, yes.

2 Q Let me ask you a couple of questions
3 regarding tariffs. Is it your position that for
4 special access and private line services that the LECs
5 should continue to submit tariffs that alternative
6 access vendors should not be tariffed?

7 A Yes, it is.

8 Q Given that scenario, the one that you
9 recommended, if a market began to develop for a new
10 product and both the LEC and an AAV or more than one
11 AAV were trying to develop a product to meet that
12 market demand, the fact that the AAVs do not have to
13 submit tariffs would allow them to be much more
14 responsive and to get out of product much more quickly;
15 isn't that true?

16 A I really am not familiar enough with the
17 tariffing process in Florida to be able to tell you
18 what the regulatory delay attendant to the tariff
19 review process might entail. In other jurisdictions,
20 with which I am familiar, I will say that competitive
21 access providers typically are able to introduce
22 services on a very expeditious basis.

23 Q And as to the LECs, do you know in Florida
24 what the minimum amount of time is between an approval
25 of a newly filed tariff?

1 A No, I do not.

2 Q Do you know that in Florida any interested
3 party protests the approval of the tariff and it goes
4 to hearing and there is an entire process there? Are
5 you aware of that procedure?

6 A I assume that that kind of procedure was
7 available, yes.

8 Q When was Intermedia's petition filed in this
9 matter?

10 A I'll have to refer to my counsel for the
11 specific date.

12 COMMISSIONER CLARK: I guess the witness
13 doesn't know.

14 MR. CARVER: That's all I have. Thank you.

15 CROSS EXAMINATION

16 BY MS. CASWELL:

17 Q Good morning, Mr. Canis. My name is Kim
18 Caswell from GTE Florida.

19 A Good morning.

20 Q Would you please refer to Page 37 of your
21 direct testimony?

22 A I don't have a copy of my direct testimony
23 here. (Pause)

24 Q That was Page 37.

25 A Yes.

1 Q Starting at Line 7, the sentence that begins
2 with "furthermore," can you read that sentence as well
3 as the sentence that follows that one?

4 A "Furthermore, as recognized by the Commission
5 in its Alternatives Access Vendor Order No. 24877, AAV
6 customers are generally sophisticated users who did not
7 need expansive Commission protection. Thus, the
8 Commission declined in its AAV order to require
9 tariffing by AAVs. The considerations that inform that
10 decision still hold true today."

11 Q So the Commission has not required tariffing
12 for AAVs because their customers have generally been
13 large sophisticated the users, right?

14 A That's true.

15 Q And they are generally more aware of
16 competitive choices in alternatives than smaller users
17 would be; is that also correct?

18 A I think that's safe to say that that is true.

19 Q With expanded interconnection, an AAV will be
20 able to provide service to any customer on the
21 ubiquitous network; isn't that true?

22 A That's correct.

23 Q And hasn't ICI, in fact, expressed its
24 intention of marketing to small and medium users if
25 expanded interconnection is granted by this Commission?

1 A Yes, it has.

2 Q And ICI has also stated that medium to small
3 customers are not generally aware of which, if any,
4 services are competitive?

5 A I'm sorry. Could you repeat that question?

6 Q ICI has also stated that medium to small
7 customers are not generally aware of which, if any,
8 services are competitive; is that true?

9 A I don't know if I would classify that
10 statement in that way.

11 Q Okay. Are you familiar with Intermedia's
12 response to a Staff data request of June 22, 1993? Do
13 you have that with you?

14 A I'm just checking.

15 MR. WIGGINS: Would you identify the specific
16 number.

17 Q (By Ms. Caswell) Okay. There's no number.
18 The title of your response is "Notice of Service of
19 Intermedia Communications of Florida, Inc., Response to
20 Staff's Data Request." The Staff's data request was
21 June 22, 1993, and your response was filed August 4,
22 1993.

23 MR. HATCH: It may solve some confusion,
24 Commissioners, that data request was in the competitive
25 services docket. It was not specifically part of this

1 docket. It's in a different proceeding.

2 MS. CASWELL: I have the same proceeding
3 number on mine.

4 MR. WIGGINS: Maybe there's a typo.

5 MS. CASWELL: Maybe we can just stipulate
6 this into the record if that's --

7 COMMISSIONER CLARK: You want this to be an
8 exhibit?

9 MS. CASWELL: Yes.

10 COMMISSIONER CLARK: Exhibit No. 1. Would
11 you give us the title?

12 MR. WIGGINS: But he is not going to have
13 that in front of him.

14 MS. CASWELL: I'm not going to ask any more
15 questions on it. We'll just stipulate it into the
16 record. That will be sufficient.

17 MR. DUNBAR: Wait, Commissioner. Could we
18 see it before it goes into the record?

19 MS. CASWELL: Sure.

20 MR. DUNBAR: I mean, I don't know that we'll
21 have any objections, but maybe we could have some
22 copies made and the rest of us could look at it.

23 COMMISSIONER CLARK: If you're just going to
24 stipulate it in the record, why don't you get some
25 copies. And I'll tell you what, we'll identify it as

1 Exhibit 1 as soon as you've copied it and delivered it
2 to the parties, then you can move to have it entered
3 into the record.

4 MS. CASWELL: I can do that at lunch.

5 COMMISSIONER CLARK: But may I please have a
6 title first? A short title.

7 MS. CASWELL: How about "ICI Response to
8 Staff Request of June 22," if that's short enough?

9 COMMISSIONER CLARK: All right. Go ahead.

10 Q (By Ms. Caswell) Okay. Mr. Canis, going
11 back to our line of questioning here. You have stated
12 that ICI has expressed its intention of marketing to
13 small and medium users. Doesn't this fact undermine
14 the Commission's only justification for not tariffing
15 AAV services in the pre-expanded interconnection
16 environment?

17 A I think there are other reasons for not
18 expanding.

19 Q You are familiar with the Commission's order
20 that you cite in your proceeding and in your testimony;
21 is that correct? I think you've referred to it several
22 times in this proceeding.

23 A I'm generally familiar with the order. I
24 don't have it with me, and, you know, I can't say that --

25 Q And do you think that order sets forth

1 justifications other than the one that we've just
2 spoken about?

3 A No, I do not.

4 Q Mr. Canis, I think you also pointed out in
5 your testimony that you feel that current mechanisms
6 afford LECs sufficient flexibility to respond to
7 competitive challenges; is that true?

8 A Yes, that's true.

9 Q Are you aware that in the 1991 AAV proceeding
10 before this Commission ICI explicitly did not oppose
11 other measures that would help the LEC respond more
12 quickly to competitive challenges?

13 A Yes, I'm aware of that.

14 Q Does ICI provide packet transport service?

15 A Not to my knowledge.

16 Q So you're not aware that ICI has, in fact,
17 stated that it does provide packet transport service?

18 MR. WIGGINS: Objection. First of all, that
19 assumes something that's not in the record. Secondly,
20 it's beyond the scope of direct because I don't think
21 I've seen anything as direct testimony having to do
22 with packets or packet transmission.

23 MS. CASWELL: It's relevant because I think
24 we're trying to find out what --

25 COMMISSIONER CLARK: I don't think that's his

1 objection.

2 MR. WIGGINS: The objection was that your
3 question assumes something that was not in the record.

4 MS. CASWELL: Well, it's in the exhibit that
5 I think probably will be entered into the record, but
6 I'm not going to pursue that line.

7 COMMISSIONER CLARK: I guess I don't have to
8 rule on the objection. The question is withdrawn?

9 MS. CASWELL: I'll drop my question.

10 Those are all the questions I have. Thank
11 you, Mr. Canis.

12 COMMISSIONER CLARK: Mr. Tye.

13 CROSS EXAMINATION

14 BY MR. TYE:

15 Q Mr. Canis, I'm Mike Tye and I represent AT&T.

16 Mr. Canis, in your summary you indicated that
17 the lack of bargaining leverage that the AAVs have with
18 the LECs in this situation makes regulatory
19 intervention necessary; is that correct?

20 A That is correct.

21 Q Is that because the LECs have substantial
22 market power with respect to the provision of local
23 access services?

24 A It's because they exercise -- they exercise
25 market power, and it's also because they own and

1 typically have exclusive control of the central offices
2 within which collocators seek to collocate.

3 Q So, in effect, they have a monopoly?

4 A I would agree, yes.

5 Q Does any other party or potential collocator
6 have either that market power or that monopoly status?

7 A Not to my knowledge, no.

8 MR. TYE: Thank you, sir. No further
9 questions.

10 COMMISSIONER CLARK: Mr. Fons.

11 MR. FONS: I have some questions.

12 CROSS EXAMINATION

13 BY MR. FONS:

14 Q Mr. Canis, my name is John Fons. I'm
15 representing United and Centel in this proceeding.

16 What is your relationship to Intermedia on
17 whose behalf you are testifying?

18 A In this proceeding I am acting as expert
19 witness for Intermedia.

20 Q And on what subject matters are you appearing
21 as an exhibit witness on behalf of Intermedia?

22 A On issues relating to collocation.

23 Q And are those issues that are based upon your
24 background as an attorney?

25 A Well, I am an attorney so --

1 Q Let me put it another way. Do you have any
2 operational experience with the telephone company with
3 an alternative access vendor, an IXC or any entity that
4 is operating a telecommunications business?

5 A Well, I represent a number of different
6 competitive access providers. And on the behalf of
7 several different CAPs or AAVs, I have negotiated
8 collocation arrangements with several different local
9 exchange carriers.

10 Q And you functioned as an attorney in those
11 situations?

12 A That is true.

13 Q But you do not have any operational
14 background; you've never worked for a
15 telecommunications company operations?

16 A That's correct. That's correct.

17 Q In your direct testimony you indicate that --
18 well, let me ask it this way: Are you familiar with
19 Intermedia's operations here in Florida?

20 A Generally, yes.

21 Q Are you familiar with the type of network
22 Intermedia has?

23 A Generally, yes.

24 Q And what type of network does Intermedia
25 have?

1 A Intermedia operates a series of fiber ring
2 networks using a counter-rotating ring structure with
3 full redundancy and route diversity to provide private
4 line services and special access services.

5 Q So this is an optical fiber network?

6 A That is correct.

7 Q And it would have fiber optical or optical
8 fiber electronics associated with that network?

9 A Yes, it would.

10 Q Are you familiar with what types of
11 electronics Intermedia uses?

12 A In a general way. I'm familiar with the
13 types of equipment. I'm not familiar with the specific
14 makes and models.

15 Q There are a lot of manufacturers of
16 fiberoptic electronics?

17 A There are several, yes.

18 Q When you say "several," can you give me a
19 general number?

20 A No, I wouldn't presume to do that. I'm aware
21 of at least a few.

22 Q And these electronics are used both by AAVs,
23 like Intermedia, or telephone companies like United and
24 Centel; is that correct?

25 A That is correct.

1 Q So it's pretty much state-of-the art,
2 off-the-shelf type equipment?

3 A Yes.

4 Q Intermedia is not operating some electronics
5 that United and Centel don't have available to them?

6 A Well, it's possible. It is not at all -- and
7 again, I don't know specifically the situation with
8 Intermedia's networks.

9 I can say it is not at all uncommon for AAVs
10 to use different types of equipment in their networks,
11 that is different makes and had models and different
12 capacities than are used by the LECs in their service
13 areas. As a matter of fact, to my knowledge that is
14 the rule rather than the exception that the LECs and
15 AAVs do not use the same equipment.

16 Q But they use the same type of equipment?

17 A The same type, yes.

18 Q And is there much difference between the
19 manufacturers? I mean, does any manufacturer have a
20 state-of-the art electronic that beats the hell out of
21 everybody else's electronics?

22 A Well, different types of equipment can have
23 substantially different capabilities. For instance,
24 some forms of OLTMs will allow for remote loop-back
25 testing and others will not. So depending, there are a

1 whole series of features and functions attendant to
2 those different types of equipment that do make a very
3 substantial difference.

4 Q Do you know what type of electronic equipment
5 that United and Centel use in their central office for
6 fiberoptic terminations?

7 A No, I do not.

8 Q Do you know specifically what types
9 Intermedia uses in its offices?

10 A No, I do not.

11 Q Is it possible that Intermedia and United and
12 Centel are using the same manufacturers in some
13 instances?

14 A It may be possible.

15 Q And currently is Intermedia's network --
16 networks in Florida, where are they located?

17 A In several cities. Frankly, I would not,
18 without reference to testimony, want to list all of
19 them, but I know Tampa, Orlando, Miami.

20 Q And in those three instances you've just
21 enumerated, Tampa, Orlando and Miami, is the Intermedia
22 network interconnected with the local exchange network?

23 A Not to my knowledge.

24 Q And currently Intermedia is providing what
25 types of services to its customers?

1 A Private line and special access services.

2 Q And would you define for us what you mean by
3 "private line service"?

4 A I won't say I'm familiar with the full range
5 of services that Intermedia may be offering. I do know
6 they include high capacity DS-1 and DS-3 special access
7 and private line services.

8 Q Are those DS-1 and DS-3 high capacity private
9 line services any different in their operation than the
10 DS-1 and DS-3 high capacity, private line and access
11 services offered by the local telephone companies in
12 those areas where you operate?

13 A I believe so, yes.

14 Q In what respects are they different?

15 A To my knowledge, in Florida the LECs do not
16 operate fully redundant and fully diverse fiber ring
17 configured networks while Intermedia does.

18 The advantage of fiber ring networks is that
19 they allow a full diversity and redundancy so that in
20 case one, let's say a typical disastrous service
21 outage, if a backhoe in construction happens to hit one
22 of their transmission pipes, the transmission is not
23 lost; rather it's recovered immediately and rerouted
24 through their redundant facilities.

25 It is my understanding that the LECs in

1 Florida do not currently operate these kinds of
2 automatically redundant networks, although I do believe
3 that GTE has recently announced that it intended to
4 construct such.

5 Q Do you know whether or not Centel operates a
6 fiber ring in the Tallahassee area?

7 A I don't know.

8 Q And this redundancy that you're talking
9 about, that's based upon the ring architecture, is it
10 not?

11 A Yes. There are other ways to achieve
12 redundancy but ring architecture is certainly a very
13 good way of doing that.

14 Q And currently the AAVs in their ring
15 architecture, if I'm Customer A and I have several
16 locations in a metropolitan area, your ring
17 architecture would allow me as Customer A to reach my
18 several locations?

19 A I'm sorry, could you repeat that question?

20 Q In your ring architecture, and I'm Customer
21 A, if I have several locations in a metropolitan area,
22 your ring architecture will allow me to reach my have
23 several locations in that metropolitan area?

24 A If you're on our network, yes.

25 Q Okay. I assumed, of course, that you were on

1 your network or reachable.

2 A Okay.

3 Q Currently, is Intermedia allowing Customer A
4 to deliver traffic not only to its other locations but
5 to, say, Customer B that might also be on your network?

6 A Yes. That is my understanding.

7 Q So I, as Customer A, can deliver traffic to
8 Customer B on your network?

9 A That is my understanding.

10 Q Are you familiar with Chapter 364?

11 A Of?

12 Q The Florida Statutes?

13 A No, I'm not.

14 Q Do you know whether or not under Chapter 364
15 Intermedia is allowed to transport traffic between
16 Customer A and Customer B for intrastate traffic?

17 MR. WIGGINS: Objection. He just answered
18 that he was not familiar with Chapter 364, Mr. Fons.
19 And now you're going on to essentially make an argument
20 through a question that's premised on his understanding
21 of Chapter 364.

22 MR. FONS: I'll withdraw the question.

23 COMMISSIONER CLARK: Go ahead.

24 Q (By Mr. Fons) On Page 7 of your testimony,
25 Mr. Canis, you indicate on Line 5, or Line 4, you have

1 a sentence that reads "Intermedia's entry into Florida
2 markets has also resulted into introduction of new
3 services, superior service quality and lower service
4 rates for telecommunications users." Do you see that?

5 A Did you say that was Page 7?

6 Q Page 7 of your direct testimony, yes.

7 A And what lines?

8 Q Lines 4 through 6.

9 A Yes, I do.

10 Q And the superior service quality that you
11 mentioned on Line 5, is that a comparative superior?
12 Is that an absolute superior? What's the basis for
13 your contention that Intermedia offers -- has
14 introduced superior service quality?

15 A It goes to two different functions.

16 First, is the availability of -- well, what
17 is called disaster-proof networks. That is fully
18 redundant and fully diverse networks that allow for the
19 recovery of a circuit in case one of the transmission
20 pads is damaged.

21 The second goes to responsiveness to customer
22 needs. Intermedia frequently will -- well, Intermedia
23 prides itself on its ability to respond to customer
24 needs to turn up new service on very, very short time
25 frames. And in both of those aspects I believe the

1 type and the quality of service, the responsiveness, is
2 superior to that typically available to customers
3 through local exchange carriers.

4 Q So you're comparing your service to the LEC
5 service when you make that statement about superior
6 service quality; is that correct?

7 A That is correct. Although I would say that
8 to the best of my knowledge the counter-rotating ring
9 structure is technically the most advanced and is
10 really superior in absolute terms, at least with
11 today's technology.

12 Q And are you indicating that, therefore, the
13 signal that the customer gets on your network is better
14 than the signal that a customer would get on a LEC
15 network?

16 A I'm not an engineer, but it is my
17 understanding that signal quality provided over an
18 all-fiber network is superior to signal quality that
19 may be provided over copper facilities. So to the
20 extent that we're comparing services provided by
21 Intermedia to copper-based services provided over
22 copper facilities by a LEC, my understanding is that
23 the signal quality would be superior.

24 Q How about a LEC that provides fiber services
25 to its customers, would your AAV service quality in

1 that instance be better than the service quality of the
2 LEC?

3 A My understanding, and again I'm not an
4 engineer -- but my understanding is that signal level
5 and signal quality is superior over fiber facilities.
6 So to the extent that LECs used the same type of fiber
7 facility, I assume that the signal quality would be
8 similar.

9 Q So if a LEC had a fiber ring serving
10 customers, all other things being equal, that the LEC
11 quality that it would provide its customers would be
12 similar to or the same as the quality that an AAV can
13 provide?

14 A Well, again, we're talking about three
15 different measures of quality. The first being the
16 signal strength and signal quality, and I think we just
17 discussed if both the AAV and the LEC provide services
18 over the same fiber facilities, the signal quality
19 should be similar.

20 We also talked about the ability to recover a
21 signal in cases of a disastrous service outage. And
22 again, if the LEC were to construct a
23 counter-rotating-ring-architecture kind of a network, I
24 think it would provide similar protection against
25 catastrophic outages.

1 We also talked about responsiveness to
2 customer needs. To the best of my knowledge, even in
3 areas where LECs have constructed fiber ring networks,
4 their provisioning intervals, that is the time it takes
5 them to turn up new service, are still inferior to the
6 level of customer responsiveness that AAVs are able to
7 provide.

8 Q But that provisioning responsiveness, that's
9 something that's correctable, is it not?

10 A I guess so, yes.

11 Q So let's assume for the moment that the LEC
12 has put in a fiber ring and that it has met the three
13 criteria that you have given, disaster protection,
14 responsiveness and the quality of the signal itself.
15 If the LECs are offering the same thing that the AAVs
16 are offering in that scenario, on what basis will the
17 AAVs compete with the LECs?

18 A The AAVs initially entered the market for
19 local communication services because there was a need,
20 valuable need perceived by customers that was unmet by
21 the local exchange carriers. Intermedia and other AAVs
22 pioneered the use of all digital all fiber.

23 Q Mr. Canis, please --

24 A On these networks

25 Q -- would you please answer my question.

1 My question was, on what basis will you
2 compete with the LECs if the LECs meet all of the three
3 criteria we talked about previously?

4 A The need for customers for new communication
5 services and improved communications service is an
6 ongoing thing. Five years ago the level of service
7 that was available was not adequate. I'm sure that
8 five years from now the kind of service that even
9 Intermedia provides now will not be adequate.

10 Technology is changing so quickly and
11 customer needs are expanding so quickly that I think
12 there will always be opportunities for an innovative
13 entrepreneurial company to provide the kind of services
14 and to find a market for the kind of services that it
15 can uniquely provide.

16 Q Will Intermedia and the other AAVs compete
17 with the LECs on the basis of price?

18 A I would assume that price would be one of the
19 components, yes.

20 Q And assuming all other things being equal,
21 the quality of the service, would price then be the
22 determinant?

23 A Not necessarily, no.

24 Q What else would you -- what else would a
25 customer look at other than quality and price in making

1 a determination as to who will serve its
2 telecommunications needs?

3 A Diversity.

4 Q And what do you mean by diversity?

5 A Customers that are sophisticated users of
6 communications can really seek protection against any
7 nature -- service outage of any nature at all.

8 Q I thought that was already covered, though,
9 as one of the criteria that we had talked about, the
10 disaster protection.

11 A Not at all. There are a number of customers,
12 and I'm thinking particularly of financial
13 institutions: the New York Stock Exchange for instance,
14 hospitals, other sophisticated users that include into
15 their specifications, when they bid for a project,
16 vendor diversity, because vendor diversity is the
17 ultimate form of diversity and the ultimate protection
18 against system outage.

19 Q So you're talking -- when you're talking
20 about diversity, you're talking about vendor diversity,
21 not diversity of the network?

22 A No. Well, there are different types. There
23 is route diversity, there's geographic diversity and
24 there's vendor diversity, and all of those are
25 critically important to sophisticated communications

1 users.

2 Q And in that situation the customer may have
3 two carriers, two vendors providing the same service?

4 A Absolutely.

5 Q Today, the Intermedia network you've
6 indicated is not interconnected with the -- any LEC
7 network; is that correct?

8 A To the best of my knowledge, that's correct.

9 Q And the purpose of this proceeding is to
10 address the issue of interconnection; is that correct?

11 A That is correct.

12 Q And the name of the docket is "Expanded
13 Interconnection." What does that mean?

14 A Generally, it means collocation. It is
15 synonymous with some form of collocated
16 interconnection.

17 Q And what will be achieved by this
18 interconnection?

19 A It will allow alternate access vendors or
20 competitive access providers to compete on a level
21 playing field against LECs by providing them with the
22 same kind of interconnectivity to the LEC network that
23 the LEC provides its own facilities.

24 Q But today we've established that the AAVs
25 don't interconnect with the LEC network. What purpose

1 will be served by having interconnection with the LEC
2 network?

3 A Right now, without interconnection, without
4 expanded interconnection, an AAV can only provide
5 service to customers that are physically located on its
6 network. Its market, then, is constrained by its
7 ability to construct its network to build up to new
8 customers.

9 Under expanded interconnection, an AAV would
10 be able to provide its services to a broader range of
11 customers.

12 Q In what respect? How would the AAV be able
13 to do that?

14 A An AAV could take service that, say,
15 originates on its network, hand it off to the LEC, so
16 that service would terminate at a point on the LEC's
17 network, or vice-versa.

18 Q Okay. So now, today, we have a stand-alone
19 AAV network that only can serve its customers that are
20 physically connected to that network; is that correct?

21 A That's correct.

22 Q But with expanded interconnection, now those
23 customers can communicate with customers on the LEC
24 network?

25 A Correct.

1 Q In that situation where a customer on the AAV
2 network is now connected with a customer on the LEC
3 network, how do you take care of redundancy in that
4 situation? (Pause)

5 A Let me clarify your question. Are you
6 talking about redundancy on what leg of the
7 transmission?

8 Q That's the question I'm asking you.

9 A Okay. Redundancy for the LEC's -- or for the
10 AAV's customer could be obtained in a number of ways.
11 First, they could obtain guaranteed redundancy services
12 from the LEC. This is typically done by paying
13 additional fees for optional redundancy services, such
14 as alternate serving wire center service or other kinds
15 of diversity services that a LEC may provide.

16 Diversity may also be obtained if the LEC
17 constructs a diversely routed and redundant network,
18 similar to the type of network used by the AAV.

19 In addition, the customer could obtain
20 diversity by asking the AAV to provide redundant
21 collocated links through collocation arrangements in
22 different LEC central offices, so that you essentially
23 have redundancy in your LECs central offices. So there
24 are a number of different ways that full end-to-end
25 diversity could be guaranteed.

1 Q Can a customer get redundancy from a LEC
2 today?

3 A Sometimes, yes.

4 Q Sometimes?

5 A Right.

6 Q I mean, I thought you just described in your
7 answer to my previous question that, when the AAV
8 interconnects with the LEC, that the issue of
9 redundancy which I asked you about would be
10 accomplished by the customer getting redundancy from
11 the LEC on the LEC portion. So the customer can get
12 redundancy from the LEC today?

13 A If the LEC offers it, yes.

14 Q Do you know whether United or Centel offer
15 redundancy today?

16 A I don't know specifically what kind of
17 redundancy offering they might offer. I assume they
18 offer some form of redundancy to some customers.

19 Q Again, once expanded interconnection takes
20 place, how will the customer get responsiveness where
21 the customer is getting a portion of his service from
22 an AAV and a portion of his service from the LEC?

23 A Typically, what we see is the LEC
24 provisioning intervals become something of a
25 bottleneck. If, for instance, the AAV can turn up

1 service in 24 hours and typically the LEC takes, say,
2 three weeks to turn up service, that could constitute a
3 bottleneck.

4 The AAV may take some steps to alleviate
5 that. For instance, an AAV could buy what's called a
6 DACS, could use a DACS machine, a digital cross-connect
7 system, that would enable it to reroute its services
8 through the -- within the LEC's central office. It
9 could also buy DACS-based services, such as
10 customer-controlled reconfiguration from the LEC, which
11 would allow rapid reconfiguration of circuits.

12 In addition, an AAV could simply buy excess
13 capacity from the LEC if it anticipated that its
14 customers would need that kind of access capacity.

15 So there are at least some ways that an AAV
16 could take steps to get around the provisioning
17 bottleneck that's usually represented by LECs services.

18 Q So that in situations where the AAV has
19 interconnected with the LEC, the LEC will not see any
20 degradation of its service because the service is being
21 provided jointly by the AAV and the LEC?

22 A I'm sorry, you said the LEC would not see any
23 degradation?

24 Q I'm sorry, I mean the customer will not see
25 any degradation from --

1 A It may, it may not. Again, there may be
2 instances in which essentially the LEC bottleneck for
3 its leg of the service just cannot be overcome. And
4 those would, in that case, provide some degradation
5 from the level of service that the AAV typically
6 provides. Although, as I mentioned before, there are
7 some steps you could take to alleviate that problem.

8 Q Assuming that those problems could not be
9 overcome, what advantage would there be to the AAV or
10 the customer in that situation to be interconnected
11 with the LEC?

12 A They would still have guarantees of full
13 diversity, redundancy, superior service quality for
14 that portion of their transmission that is under the
15 LEC -- under the AAV's control.

16 Q In those situations in which there is
17 interconnection between the AAV and the LEC, will the
18 AAV be able to provide any services different than what
19 the LEC is capable of providing?

20 A Well, I don't know if I entirely understand
21 your question. But let me take a shot at it.

22 Q I'll be happy to rephrase it if you don't
23 understand it.

24 A Okay, if you would, please.

25 Q What I'm asking you is: In the

1 interconnection situation, will the AAV be able to
2 provide any different services than the LEC is able to
3 provide to the end user?

4 A Yes. And essentially, when you talk about
5 services like network management and things of that
6 nature, these are a full range of services that are
7 provided by the AAV under the control of the AAV's
8 central monitoring and control function.

9 To the extent that you are using the LEC's
10 network merely to terminate a service that originates
11 or is enhanced on the AAV network, the ability to
12 provide that service would not at all be affected by
13 terminating it on the LEC network.

14 Similarly, even if you are required to
15 purchase LEC services -- for instance, let's say a LEC
16 offers a high capacity services in quantities of one
17 and five DS-1 circuits and you can't get anything in
18 between. If the AAV wanted to provide something in
19 between, it could do that. It could purchase as an
20 agent for the customer access capacity on the LEC
21 network but still provide a fundamentally different
22 type of service or service that at least appeared
23 different to the customer because it was originated on
24 the AAV network.

25 So there are a number of different ways where

1 the product offering of the AAV would remain
2 substantially different from the LEC's, even though it
3 terminated or originated on the LEC network.

4 Q You're talking about packaging in that
5 situation, are you not?

6 A No, not necessarily. Well, network
7 management would be a form of packaging, yes.

8 Q How about from a technical standpoint. Would
9 there be any services that an AAV could technically
10 offer that, because they're interconnected to the LEC,
11 the LEC could not technically offer and, therefore,
12 customer could not get that service?

13 A Not being an engineer, I am really not able
14 to respond fully to that question.

15 Q And if the AAV is terminating traffic that's
16 originated on its network on to the LEC network, won't
17 the signal have to be handed off to the LEC network in
18 a fashion that the LEC network can handle?

19 A Yes.

20 Q So the electronics would have to be
21 consistent, would they not?

22 A They would have to be compatible at the point
23 of handoff.

24 Q Right. But that's the critical point here,
25 isn't it?

1 A Not really. Not when you're talking about
2 value added services.

3 Q Well, but we're talking about the expanded
4 interconnection taking place at the LEC's central
5 office. So you are hooking up the AAV electronics to
6 the LEC electronics. Isn't that correct?

7 A Right. I guess what I'm getting at is, if
8 you're making a distinction between a total service
9 package and the mere termination of transmission, then
10 you're talking about substantial differences here.

11 For instance, on an AAV network, you could
12 take service and put on all kinds of bells and
13 whistles. You could include data overvoice, full
14 network management services, bundled packages, special
15 features, and you could generate that and control that
16 on the AAV network.

17 If all you're doing is just handing that off
18 to the LEC for termination on the LEC network, the LEC
19 doesn't have to have similar processing capability;
20 it's just a straight transmission. So we really have
21 to talk about what kind of service you're talking
22 about.

23 Q Well, I'm talking about private line services
24 that the AAV is offering to customers.

25 A In that case, you have straight transmission

1 of digital, typically high-capacity services. The
2 AAV's network can be different, it can use different
3 types of equipment from the LEC's network; but at the
4 point of handoff where you actually interconnect within
5 the central office has to be compatibility, yes.

6 Q Will the customer see any different quality
7 of service in those situations in which it has jointly
8 provided service -- and I'm use using "jointly
9 provided" in a literal sense, not in a technical sense
10 -- jointly provided service involving both the LEC and
11 the AAV than the customer would see of it was only
12 using an AAV?

13 A You know, this goes back to the discussion
14 that we had before. There are a lot of different
15 components involved in a service. If you're talking
16 about signal quality, redundancy guarantees, customer
17 responsiveness and then value added services, you have
18 to look at all four of those aspects of a service
19 differently.

20 I would say -- and, again, I can only say
21 that it depends. If the AAV has an all-fiber network
22 and is handing off to fiber facilities provided by the
23 LEC, there would be no degradation in signal quality.
24 If it was handing off to copper facilities maintained
25 by the LEC, then, yes, there likely would be, and that

1 would not be transparent to the customer. The customer
2 would be advised that for that leg of the transmission,
3 there would be less of a service quality guarantee.

4 The same with redundancy. If there was full
5 redundancy on the AAV network but not on the LEC
6 network, the customer would have to be advised that
7 redundancy would only be provided on the AAV section.
8 If the LEC's network were fully redundant, that would
9 be transparent to the customer.

10 In terms of provisioning, we mentioned before
11 that there are different steps that the AAV may be able
12 to take that would ensure that it would be able to
13 maintain its provisioning intervals if they were
14 superior to the LECs.

15 There may be other cases where the customer
16 would have to accept a lesser standard for provisioning
17 because of the LEC's standard.

18 And, finally, when you're talking about bells
19 and whistles, network management, value added services,
20 if all you're doing is terminating that circuit on
21 LEC's facilities, then that, too, would be transparent
22 to the customer. The customer wouldn't see any
23 degradation in the quality or type of service provided
24 by the AAV.

25 Q Do you think the customer will demand a

1 different price for the situation where the service is
2 degraded because the AAV is interconnected with the
3 LEC network?

4 A That is possible.

5 Q How does Intermedia establish its prices
6 today for the services it provides on its stand-alone
7 network?

8 A I have no knowledge of that.

9 Q On Page 7 again, that same line where you
10 talked about superior service quality, you say "lower
11 service rates for telecommunications users." First of
12 all, which telecommunications users get lower rates?

13 A Well, price competition brought on by AAVs
14 has led to a dramatic reduction in high capacity
15 service rates for, as far as I understand, all
16 customers.

17 Q Can you give me an instance where United
18 Telephone Company of Florida is providing lower
19 high-cap rates because an AAV might be in its service
20 area?

21 A I'm not familiar specifically with LECs'
22 pricing practices in Florida.

23 Q Okay. Well, I'm just curious about Florida.
24 I know you've appeared in New York and Illinois and
25 other places, but we're trying to establish what's

1 going on in Florida.

2 A I can tell you in terms of Florida, for
3 interstate traffic, all of the LECs have reduced their
4 DS-1 rates by as much as 50% and in some cases as much
5 as 80% over the last five years, in direct response to
6 competition brought on by AAVs.

7 Q Good. That's what competition is supposed to
8 be about, isn't it?

9 A Certainly is.

10 Q In your response, though, or your statement
11 on Page 7, when you say "lower service rates," you're
12 talking about lower service rates for the AAV as
13 compared to the LEC?

14 A No. I think I just mentioned that the effect
15 of competition is to put downward pricing on rates
16 across the board.

17 Q So this isn't a comparative between the LEC
18 and the AAV in this situation?

19 MR. WIGGINS: Would you mind repeating the
20 question? He may have understood it but I didn't.

21 MR. FONS: Okay, sorry.

22 Q (By Mr. Fons) In other words, this is not a
23 comparison. When you say "lower rates," you're not
24 saying AAV rates are lower than LEC rates?

25 A They may be but they may not be.

1 Q So you're able to charge currently a premium
2 for the AAV services because in your view the AAVs
3 offer superior service quality than the LECs are
4 providing?

5 A As I said before, I am not familiar with
6 Intermedia's ratemaking practices. I can tell you that
7 in my experience with other CAPS that providing a
8 premium for diversity redundancy is not uncommon.

9 (Pause)

10 COMMISSIONER LAUREDO: May I ask a question?

11 COMMISSIONER CLARK: Mr. Fons, while you're
12 taking a break, Commissioner Lauredo would like to ask
13 a question.

14 MR. FONS: Surely.

15 COMMISSIONER LAUREDO: I'm trying to
16 understand before we move up to another issue. This is
17 one of the areas that I'm struggling to understand or
18 at least to quantify in some objective way the
19 statements that throughout your testimony and others
20 refer to lower prices.

21 And my question in my typical simplistic way:
22 It's lower price to whom? And if I struggle to try to
23 identify that, I see on Page 7, or Page 4, for example,
24 of your testimony, Line 17, you refer that the AAVs
25 serve large business institutions or government

1 customers and metropolitan market areas across the
2 country.

3 On Page 7, you refer to the Company has grown
4 because it provides services to, quote, "business
5 users." That's Line 9. And I can go on and on.

6 I'm not being argumentative, I'm just trying
7 to see if maybe you can help me by perhaps giving me an
8 example. Let's say, for example, New York, which is
9 the example which you log through the testimony, by
10 which the regular plain old telephone user in the New
11 York City area has seen lower rates because of physical
12 collocation?

13 WITNESS CANIS: Well, no, Commissioner. When
14 I talk about price competition, I'm talking about the
15 range of services that the AAVs are providing. And, in
16 fact, it is for that category of services and for that
17 category of users that price competition really
18 accompanies AAV entry into a market.

19 Q All right. So then your reference to
20 competition and its resulting market forces downward
21 pressure on prices refers to what we may call the
22 sophisticated user or the big user, the business user
23 -- I don't know some of the terminology -- and you are
24 not implying that it would bring down prices to the
25 regular plain old telephone?

1 WITNESS CANIS: Well, I would say generally,
2 to the extent that this proceeding is focusing on
3 private line and special access services, those are the
4 services that we're focusing on at this point. And I
5 agree that my references here to price competition
6 driving down prices for services refers to the
7 high-capacity services that are typically used by
8 business users.

9 I would posit, however, that price
10 competition works pretty universally; and to the extent
11 that competition is introduced for different services,
12 it would similarly have the effect of reducing prices.

13 But, specifically, my testimony here is
14 referring to the services immediately at hand in this
15 proceeding.

16 COMMISSIONER LAUREDO: I just have a history
17 which, of course, gets me -- you're not from this town,
18 but gets me in trouble every once in a while. I'm just
19 trying to step back look at the big picture and I'm
20 very open on this issue; it's very compelling arguments
21 from both sides; but my focus is trying to figure out
22 how the whole system will be impacted.

23 And I think a short paraphrase for your
24 answer is that what you're talking about here is then
25 to the so-called big users.

1 Let me tell you how it's even more
2 complicated in my mind, maybe you can help me. Some of
3 the very eloquent arguments you make about efficiency
4 and just your service providers, the AAVs, talks
5 somewhere in your testimony about -- and I'll get to
6 some more questions on that later -- the higher cost
7 that you would have to absorb by having virtual
8 collocation. You know, you're talking about servicing
9 and redundancy of training, all that kind of stuff.

10 Do you, in your mind, make a connection
11 between those higher costs and this vague concept of
12 universal service that the LECs have to provide, that
13 they have to provide other services that by which, for
14 some socially mandated -- rightfully or wrongfully --
15 policy they have to carry on?

16 Is there a correlation between those higher
17 costs and these higher --

18 WITNESS CANIS: No, Commissioner. When I'm
19 talking about the additional costs associated with
20 virtual collocation, I'm really talking about costs
21 that are imposed on AAVs that are really artificial.
22 They don't ordinarily exist. The LECs don't currently
23 have those kinds of costs and the AAVs under physical
24 collocation wouldn't have those kinds of cost.

25 So when we talk about the costs associated

1 with virtual collocation, it's, to my mind, really just
2 a highly inefficient and highly artificial way of
3 increasing the cost to the AAV, but it doesn't really
4 reflect on any of the inherent costs of running a
5 network. These are over and above those kinds of
6 costs. And we can talk about those in specifics if
7 you'd like.

8 COMMISSIONER LAUREDO: All right. So your
9 reference is -- and forgive me for not having a handy
10 reference to the page. Where you use an example of
11 actual just labor cost?

12 WITNESS CANIS: Yeah.

13 COMMISSIONER LAUREDO: And the allocation of
14 overtime and, I guess, a fixed labor cost that maybe is
15 because of contractual agreements, et cetera --

16 WITNESS CANIS: Exactly.

17 COMMISSIONER LAUREDO: -- that are higher.
18 You have a more independent or a more lean operation.

19 WITNESS CANIS: Uh-huh.

20 COMMISSIONER LAUREDO: But you don't see any
21 relationship between those higher costs that you would
22 have to be a victim of and the so-called "social
23 burden" that the LECs carry vis-a-vis this concept of
24 universal service. You don't make that connection?

25 WITNESS CANIS: That's correct. And if we

1 look at the overtime cost issue, our argument here is
2 not that the interconnected CAP should never be charged
3 to overtime. It's just that we have a history of very
4 acrimonious relations between LECs and AAVs -- and
5 that's understandable. They're competitors.

6 We want to avoid a situation where,
7 understanding that that kind of relationship exists, we
8 eliminate the ability for the LEC to over-allocate
9 overhead costs, overtime costs, to the AAV. We're not
10 talking about trying to avoid a reasonable sharing of
11 overhead costs -- overtime costs, we're just talking
12 about there may be an incentive for the LEC to shift
13 all of its overtime to the competitor in order to
14 forestall competition. And this is true with other
15 areas.

16 You know, we talked about increasing capital
17 costs. Well, the LECs get good deals when they go and
18 buy their own equipment. We get good deals when we go
19 and we buy our equipment because we're both big volume
20 purchasers. However, what we have seen in Indiana in
21 Ameritech is, under their virtual arrangement, they
22 just take the equipment at the cost we would buy it and
23 mark it up 30%.

24 That's a completely artificial cost; it
25 doesn't affect any real LEC cost and the only thing it

1 does is increase our cost of doing business. So --

2 COMMISSIONER LAUREDO: Because in virtual
3 collocation you do not have control of the purchasing
4 of the equipment you need? I didn't see that in your
5 testimony, I'm sorry.

6 WITNESS CANIS: We may not. And it gets a
7 little difficult when you talk about virtual
8 collocation, because arrangements may differ
9 substantially.

10 For instance, in the original New York Tel
11 virtual collocation arrangement, CAPs did not have
12 control over purchasing their equipment. New York Tel
13 said, "You tell us what you want and we'll buy it for
14 you and you pay our price."

15 Ameritech is different. Ameritech says, "You
16 buy your equipment at the best price that you can do
17 it; you lease it to us; we'll mark it up 30% and lease
18 it back to you."

19 I don't know, maybe they consider that a
20 processing fee or something, I don't know. But the
21 bottom line is what we're talking about here is
22 artificial costs, artificial ways of inflating the
23 AAV's cost of doing business. And these are not costs
24 that are normally borne by the LECs in the normal
25 course of their conducting their business.

1 COMMISSIONER LAUREDO: Would you perhaps, so
2 I don't hold up counsel, think -- you're going to come
3 back for rebuttal?

4 WITNESS CANIS: Yes.

5 COMMISSIONER LAUREDO: -- through a little
6 bit more philosophically, maybe coming from the New
7 York experience, if you can. And if not, if there
8 isn't any specific qualitative result there of just how
9 you can logically, so it can help me walk through the
10 regular plain old telephone user put in a very
11 philosophical way --

12 WITNESS CANIS: Yes.

13 COMMISSIONER LAUREDO: -- but would benefit
14 from lower cost if we move with this petition or this
15 philosophy?

16 WITNESS CANIS: Certainly.

17 COMMISSIONER LAUREDO: Thanks. (Pause)

18 COMMISSIONER CLARK: Mr. Fons, how much more
19 do you have?

20 MR. FONS: I probably have 10, 15 more
21 minutes.

22 COMMISSIONER CLARK: Why don't we take a
23 break and come back at a quarter after.

24 (Brief recess.)

25 - - - - -

1 COMMISSIONER CLARK: Mr. Fons.

2 Q (By Mr. Fons) Yes. Earlier, Mr. Canis, I
3 was asking you some questions. You indicated that the
4 LECs have reduced their prices for certain private line
5 services as a result of the appearance of the AAVs. Is
6 that a proper characterization of your testimony?

7 A Yes. I was referencing, specifically, the
8 rates -- rate changes affected by LECs in their federal
9 tariffs including BellSouth, and to the best of my
10 knowledge, United as well.

11 Q That was interstate tariffs?

12 A Interstate, yes.

13 Q You don't know about intrastate?

14 A Frankly, I assume that there was some that
15 were similar that would put pressure on intrastate, but
16 I don't know for certain.

17 Q And would you describe what we just talked
18 about as being the LEC reaction to the marketplace?

19 A Yes, I would.

20 Q So the LECs are susceptible to what's going
21 on in the marketplace as the AAVs are; is that correct?

22 A I really don't know how you intend to use the
23 word "susceptible." The LECs certainly are responding
24 to market entry by the AAVs, yes.

25 Q And the LECs are going to have to respond

1 pricewise to what prices the AAVs introduced to the
2 marketplace; is that correct?

3 A Competitors have a number of different
4 options. Cutting prices is one: competeing on quality
5 is another.

6 Q But we've already established that the LECs
7 did reduce their prices in response to the appearance
8 of the AAVs in the marketplace in Florida; is that
9 correct?

10 A I believe that is the case, yes.

11 Q You've indicated on Page 37 in response to a
12 question "Do the LEC need additional pricing
13 flexibility to be able to compete under expanded
14 interconnection" that, "No, they should not be granted
15 any additional flexibility than they already have."
16 And you've indicated the paraphrasing, what you're
17 saying, that the LECs have available to them contracts,
18 serving arrangements and an individual case basis for
19 pricing; is that correct?

20 A That is correct.

21 Q Do you know what rules and regulations this
22 Commission has established with regard to the use of
23 contract service arrangements?

24 A No, I do not.

25 Q Do you know whether or not the -- then you

1 don't know under what instances a contract service
2 arrangement can be used?

3 A That is correct.

4 Q Then how do you know that this constitutes
5 pricing flexibility for the LECs?

6 A I know generally that LECs do have ICB
7 contracting available to them. I was working under the
8 assumption that this is not -- is broadly applicable
9 and was working from that assumption.

10 Q If your assumption was wrong, that it's not
11 broadly applicable, would that change your statement?

12 A It may, yes.

13 MR. FONS: I have no further questions.

14 COMMISSIONER CLARK: Ms. Wilson, do you have
15 any questions?

16 MS. WILSON: No questions.

17 COMMISSIONER CLARK: Mr. Dunbar.

18 MR. DUNBAR: Thank you, Commissioner.

19 CROSS EXAMINATION

20 BY MR. DUNBAR:

21 Q Mr. Canis, my name is Peter Dunbar on behalf
22 of Time Warner.

23 If you still have your direct testimony
24 there, could I ask you please to turn to Page 36. And
25 on line 16 of that page there is a question and then

1 your response appears on line 18?

2 A Uh-huh.

3 Q Throughout your direct testimony you've made
4 you've underscored the significance of the market power
5 of the local exchange companies. Do I understand you
6 in this response to be indicating that if someone
7 collocates into a LEC network they should be required
8 to give that interconnection in return?

9 A No, that is not -- that is not the intention
10 of that statement.

11 Q Simply then is the purpose of that statement
12 then simply to indicate that Intermedia is willing to
13 do that?

14 A Yes. The purpose is that -- of that
15 statement indicates that Intermedia will consider bona
16 fide requests for collocation from LECs or from other
17 parties.

18 Q Are you familiar with Mr. Kouroupas' direct
19 testimony?

20 A I've read it, yes.

21 Q Let me paraphrase some of that or read some
22 of that from Page 22 of that testimony beginning on
23 line 4. "As monopoly providers of essentially
24 bottleneck facilities, LECs need to be required to
25 provide physical collocation to interconnectors;

1 however, nondominate competitive carriers need no such
2 requirement." Would you disagree what that statement?

3 A No, I would not.

4 MR. DUNBAR: I have no further questions.

5 Thank you, Commissioners.

6 MR. HOFFMAN: I have no questions.

7 COMMISSIONER LAUREDO: May I --

8 COMMISSIONER CLARK: Is there any one other
9 party who would like to ask questions who doesn't have
10 a seat at the table? Okay.

11 COMMISSIONER LAUREDO: Just to clarify Mr.
12 Dunbar's question on Page 16, the question refers to
13 other parties and in your answer you are company
14 specific. And since you don't work for that company,
15 that still has a way of committing -- that's a
16 statement that has been approved by the owners of
17 Intermedia?

18 WITNESS CANIS: I'm sorry, Commissioner. Can
19 you direct me to a --

20 COMMISSIONER LAUREDO: Yes, on Page 36 the
21 question that Mr. Dunbar referred to. The question was
22 general, but your answer is as to the company you
23 represent today and it's a commitment. And since
24 you're not an employer or executive for the Company, I
25 wonder whether that has the same weight as, or are you

1 speaking for the Company?

2 WITNESS CANIS: Yes, Commissioner, I am. And
3 I can also tell you that Intermedia is a member of the
4 National Trade Association of Competitive Access
5 Providers. It's known as ALT. And that is the
6 position it took before the FCC, and when similar
7 questions were raised.

8 COMMISSIONER LAUREDO: Thank you.

9 COMMISSIONER CLARK: Staff.

10 CROSS EXAMINATION

11 BY MR. MURPHY:

12 Q Mr. Canis, I'm Charles Murphy on behalf of
13 the Staff.

14 Have you received a copy of exhibits JC-1,
15 JC-2 and JC-3?

16 A Yes, I do.

17 Q Have you had a chance to review them?

18 A I haven't reviewed -- I've briefly reviewed
19 these documents, yes.

20 Q Are they accurate to the best of your
21 knowledge and belief?

22 A Yes, they are.

23 MR. MURPHY: Commissioner, Staff would ask
24 that the exhibits be numbered for identification.

25 COMMISSIONER LAUREDO: Where are these?

1 MR. MURPHY: Those are in order by witness.
2 They should be the top three in the Commissioners'
3 pile, the court reporter's pile and Mr. Pruitt has a
4 stack of them as well.

5 COMMISSIONER CLARK: Okay. I have JC-1, 2
6 and 3. And you want them marked as exhibits?

7 MR. MURPHY: Yes, Commissioner.

8 COMMISSIONER CLARK: JC-1 will be Exhibit 2,
9 JC-2 will be Exhibit 3 and JC-3 will be Exhibit 4.

10 MR. MURPHY: Do you need names in addition to
11 the abbreviated version?

12 COMMISSIONER CLARK: Sure.

13 MR. MURPHY: No. 2 would be "Response to
14 Staff's First Set of PODs." No. 3 would be "Responses
15 to Selected Interrogatories." No. 4 would be
16 "Deposition Transcript."

17 COMMISSIONER CLARK: We'll show those as
18 identified.

19 (Exhibit Nos. 2 through 4 marked for
20 identification.)

21 COMMISSIONER CLARK: Go ahead.

22 Q (By Mr. Murphy) Mr. Canis, how should the
23 Commissioner handle Tier 1 versus Tier 2 LEC?

24 A Our recommendation is that all Tier 1 LECs
25 should be subject to a mandatory requirement to provide

1 physical collocation. For Tier 2 LECs we recognize
2 that they may be differently situated from the Tier 1's
3 and may not be in a position to provide collocation in
4 all central offices. Nevertheless, we believe that to
5 extend the benefits of competition to as many as
6 broadly as possible to the Florida ratepayers, if
7 collocation is feasible within Tier 2 LEC central
8 offices, they should be required to provide collocation
9 as well.

10 For that reason we recommend that Tier 2 LECs
11 be subject to a general obligation to respond to bona
12 fide requests for collocation in their central offices;
13 and, if, in fact, they are unable to provide
14 collocation as requested, we would ask that the
15 Commission be willing to act as an arbiter on a
16 case-by-case basis to determine whether collocation is
17 feasible and should be provided.

18 Q Assuming that expanded interconnection is
19 ordered in Florida, should the Commission require the
20 LECs to file rate elements in their intrastate expanded
21 interconnection tariffs, which mirror rate elements in
22 their interstate tariffs, or should there be a
23 difference?

24 A Generally, I believe that they should mirror
25 the interstate rates. Frankly, if the Commission felt

1 strongly about requiring a higher level of unbundling
2 or rate desegregation, we would not object. However, I
3 do believe that it is imperative that the LECs do
4 tariff all of their collocation charges, and also terms
5 and conditions, and that those charges be broken down
6 as much as possible and fully cost justified.

7 By mirroring the rate structure that these
8 LECs have adopted on the interstate level, I believe
9 that would aid the Commission and the general public in
10 reviewing these rates, the intrastate rates, in
11 determining their reasonableness. So, yes, I would
12 recommend that the Commission requires mirroring.

13 Q Do you also agree with the FCC standard of
14 allocating space on a first-come-first-serve basis
15 where space is available?

16 A Yes, I do.

17 Q What should happen if a LEC indicates that a
18 given CO has no space available for collocation?

19 A In this respect, I would respectfully ask
20 this Commission to depart somewhat from the position
21 taken by the Federal Communications Commission.

22 The FCC established that LECs are not
23 required -- it would be granted waiver from providing
24 physical collocation if they have an adequate space in
25 their central office; and, of course, we do not

1 disagree with that. The issue, though, is the
2 evidentiary standard necessary to support a LEC claim
3 that inadequate central office space exists. The FCC
4 requires that LECs makes a showing, usually through a
5 signed affidavit by one of their engineers, that
6 indicates the total square footage within the central
7 office, how that square footage is used; that is, the
8 percentage or the amount that's used to provide
9 regulated services, other services, the unused space
10 and space that is reserved for future regulated
11 services. And, frankly, we feel that that is a fine
12 set of standards and that the LEC should be required,
13 at a minimum, to make that showing.

14 However, we would go one step beyond that and
15 request that this Commission establish some form of
16 independent verification. Our concerns, and to the
17 extent that the FCC has granted waivers from physical
18 collocation because based on LEC allegations that
19 inadequate central office space existed, these waivers
20 more often than not take place in very large, downtown
21 central offices that are of critical importance to
22 competitive access providers. Therefore, it raises the
23 concern that the LECs may not be entirely forthcoming
24 about the availability of space within their central
25 office. And our concern is that the LEC might

1 misrepresent that they have inadequate office space to
2 provide physical collocation as a means of imposing
3 what we consider the inferior virtual collocation
4 arrangements on competitive access providers.

5 For that reason, we would ask this Commission
6 to approve or to mandate some form of independent
7 verification, whether it be done by an AAV
8 representative, a member of the Commission Staff or an
9 outside contractor. But just some sort of independent
10 verification that, in fact, inadequate space exists to
11 permit physical collocation.

12 Q In the event that an AAV is located in a
13 central office and finds it necessary to expand -- it
14 needs additional space, how should this eventuality be
15 handled?

16 A It is imperative from the AAV's perspective
17 to be able to efficiently and effectively expand its
18 facilities. It is not -- we are anticipating that as
19 competition increases, as the market increases for
20 competitive services, collocated CAPs will have a need
21 to expand their collocation space within the central
22 office.

23 I would recommend that this Commission
24 sanction some practices that have already been put in
25 place on the intrastate tariffs of other LECs that

1 provide collocation. Specifically, I would recommend
2 the approach taken by New England Telephone in
3 Massachusetts. When they build physical collocation
4 arrangements, as we've mentioned before, they do it in
5 ten-by-ten foot increments. And they usually
6 atypically have a lot of central office space
7 available. So rather than building central offices --
8 collocation cages one right next to the other, they
9 leave a ten-by-ten foot space right next to the cage.
10 This means that as they build out, we have room for a
11 whole other cage immediately in between each of the
12 collocation cages that are being constructed.

13 This allows a CAP to move into immediately
14 adjacent space if it has to expand its facilities. By
15 doing so, we minimize the cost of additional cabling
16 and repeaters that might be necessary if the first cage
17 was on one end of the central office and the second
18 cage was on the other end of the central office.

19 Now, of course, we understand that this kind
20 of spacing arrangement is only -- would only be
21 provided on an as-available basis and that if
22 collocation demand was great enough so that available
23 space had to be taken up, then the LECs could go back
24 in and build those cages in those in-between spaces.
25 But we do believe that is essential to allow for the

1 efficient expansion of collocated spaces into
2 immediately adjacent space whenever possible.

3 I would like to make one further observation,
4 and we touched on this briefly before when we were
5 talking about virtual collocation. Under virtual
6 collocation, there are no real restrictions on how a
7 LEC may configure a collocator's equipment. And
8 typically you'll see an equipment bay, which is about
9 the size of a large bookshelf, about three feet wide
10 and seven feet high, and these individual pieces of
11 equipment, multiplexers, OLTMs, which are about the
12 size of maybe a briefcase or a litigation bag, and they
13 are just put in shelves.

14 Even under virtual collocation, if you would
15 have a very insufficient situation, if a collocator
16 says, "Give me one OLTM," they put the optical line
17 terminating multiplexer on one rack, "and then fill
18 that rack up with other equipment from other
19 collocators." Then, if the collocator says, "Look, I
20 need to expand. I need another OLTM," the LEC might
21 say, "Well, we have another space available on the
22 other side of the office." There you may require
23 another 120 feet of cabling, which can be expensive and
24 is usually charged on a monthly recurring basis, plus
25 repeaters, which unreasonably add to the costs of

1 expansion.

2 So I would recommend that this Commission
3 adopt some kind of a standard. Also for virtual
4 collocation that would guarantee, where feasible and
5 where space is available, the right of an
6 interconnector to expand its facilities in an
7 immediately adjacent space.

8 COMMISSIONER JOHNSON: Charles, let me ask a
9 couple of questions. I'm getting a little confused.
10 Earlier, I think Mr. Carver had asked you if you
11 thought that virtual collocation required less space
12 than physical collocation. And it took you a while to
13 get an answer, and I don't even know if I remember what
14 your answer was particularly based on the discussion
15 now. Does virtual collocation require less space, use
16 less space than physical, and if so, why?

17 WITNESS CANIS: As a general matter, the
18 answer is yes, but it's a matter of degree. Let me
19 just kind of sketch out what a typical arrangement
20 looks like. And this part is true, whether it's
21 physical or virtual. We have an equipment bay, which
22 as I said just looks like a metal bookshelf. It's about
23 three feet wide, maybe two feet deep and typically
24 seven feet high. And on those are placed different
25 types of equipment, and, typically, these are

1 multiplexers, OLTMs. And, again, these are the size of
2 maybe a briefcase or a little bit bigger, maybe a
3 litigation bag. And these are just stacked all the way
4 up.

5 Now, and this is true, that arrangement is
6 true whether this physical or virtual. You still need
7 a bay and you still need to put that equipment in that
8 size. Now, under -- the standard has kind of grown up
9 now through negotiations with different LECs in
10 different states. For physical collocation, the LEC
11 typically designates a ten-by-ten foot space and builds
12 like a little chicken wire or enclosure, a little cage
13 enclosure. And the LEC -- the collocated party, the
14 AAV or other party, is free to put its bay in there.
15 And a ten-by-ten space you may have room for a couple
16 of bays and maybe a desk or a storage area or
17 something.

18 For virtual collocation that ten-by-ten foot
19 area is not necessary. You may just have the
20 stand-alone bay. So if you adopt a physical
21 collocation standard that requires a ten-by-ten foot
22 area, that is larger than what you're normally going to
23 require in a virtual collocation arrangement. But keep
24 in mind that a bay itself two-by-three takes up six
25 square feet. And, of course, you have to have access

1 to it so we add a few more square feet. You're talking
2 about probably 25 square feet or 20 square feet for an
3 equipment bay even under virtual collocation.

4 Now, some of the LECs argue that virtual
5 collocation takes up even less space than that, and
6 instead of looking at the bay they just say, "The only
7 space that's taken up is the size of this briefcase or
8 litigation bag."

9 And that is where we have a real problem
10 because if that is the case, if they just put one of
11 those multiplexers over here, chances are you're going
12 to need another multiplexer later on. And if they put
13 one multiplexer here and then fill up that bay, they're
14 going to say, "Well, if you need to expand, you have to
15 go over here, maybe you have to go downstairs, maybe
16 we're going to have to build now 200 feet of lateral
17 cable and a couple 100 feet of riser cables, add a
18 couple of repeaters in there," and all of a sudden
19 you're paying, you know, another \$200 a month.

20 So I would say to be efficient, even in a
21 virtual collocation arrangement, you would have to
22 dedicate a bay, a full equipment rack to an
23 interconnector's use. So even under virtual, I think
24 as a practical matter, you're dedicating about 25
25 square feet to an interconnector's use, so compare that

1 with 100 square feet, if you have an physical
2 arrangement with a 10 on by 10-foot cage. But, again,
3 we would be willing to accept smaller cages if we had
4 to.

5 Again, trying to boil all that down, yes,
6 physical does take up more space than virtual but
7 really it's a matter of degree. If you define virtual
8 collocation as only the space taken up that
9 briefcase-size multiplexer, it's going to create real
10 problems for CAPS and it's going to really impose
11 additional costs.

12 COMMISSIONER JOHNSON: In either case,
13 whether we're dealing with virtual or physical
14 collocation, there will be a question of space capacity
15 and what can be done.

16 WITNESS CANIS: Exactly.

17 COMMISSIONER JOHNSON: Does your testimony
18 address -- because I don't recall reading where you
19 addressed the issue of how -- is it a first come, first
20 serve?

21 WITNESS CANIS: Uh-huh. We recommend first
22 come, first serve. To my knowledge all of the
23 interconnection arrangements that have been negotiated
24 on the state level as well as the standards adopted by
25 the Federal Communications Commission have all adopted

1 a first-come-first-serve standard, and we believe
2 that's a fair and equitable way to go about it.

3 COMMISSIONER JOHNSON: In the other states
4 that you addressed in your testimony, New York for
5 instance, have there been any problems with respect to
6 running out of capacity?

7 WITNESS CANIS: No.

8 COMMISSIONER JOHNSON: As of yet?

9 WITNESS CANIS: No. And to the best of my
10 knowledge now, New York Telephone offers collocation in
11 between 12 and 16 of its central offices. And to the
12 best of my knowledge, as of last week, when I talked to
13 a couple of CAPs who are collocated in New York, no one
14 has been denied physical collocation because of lack of
15 space.

16 COMMISSIONER JOHNSON: Let's assume that we
17 look into the future a bit and we allow physical
18 collocation. What happens when there is a capacity
19 problem? How should we address that?

20 WITNESS CANIS: Typically, the standards that
21 have been adopted in other jurisdictions, and I think
22 this makes sense, is that you provide physical
23 collocation until space is exhausted, then you provide
24 virtual collocation until space is exhausted, and after
25 that, you just don't provide it anymore. If it's not

1 possible, you don't do it.

2 It is possible that in order -- if in the
3 future we're talking about a real excessive demand and
4 there are a lot of people who want to get into that
5 central office, you may talk about other arrangements,
6 like allowing existing collocaters with a ten-by-ten
7 foot space to maybe sublease part of that space or, you
8 know, maybe even voluntarily give up part of that space
9 to accommodate others. I think there are other ways
10 you can do this. And again we're getting into a
11 situation now where there are no hard and fast rules.
12 Everyone is kind of making this up as they go along and
13 doing what makes sense.

14 What I can tell you, though, with the
15 experience that I have had in negotiating collocation
16 arrangements in four different states, central offices
17 more often than not -- as a matter of fact, always to
18 my experience, have very large amounts of space
19 available. Again, in New York physical collocation has
20 been available for two years and they are nowhere near
21 exhausting the space in different COs.

22 COMMISSIONER JOHNSON: Thank you.

23 COMMISSIONER LAUREDO: Let me just follow up
24 on Commissioner Johnson's questions. If I -- I
25 understand the three-by-seven cabinet that you referred

1 to will accommodate more than one AAV, correct? The
2 actual equipment, the physical interconnector is
3 roughly the size of a litigation bag; is that correct?

4 WITNESS CANIS: Well, that's correct,
5 Commissioner. And keep in mind now that in a typical
6 collocation arrangement you may have a number of
7 different pieces of equipment. For instance, you may
8 have what we're calling the OLTM, is where you
9 terminate your fiberoptic line.

10 Now, in order to break that down and to
11 provide lower levels of service, you may need a
12 multiplexer as well, so in that case you have got a
13 rack with one litigation bag and one briefcase,
14 basically.

15 In a typical collocation arrangement you're
16 not talking about just one piece of equipment but
17 perhaps several.

18 COMMISSIONER LAUREDO: Okay. But my question
19 -- let's say several. I don't want to get too detailed
20 here, but I want to get a sense of the spacing. Okay.

21 It is theoretically possible that on the
22 three-by-seven cabinet more than one interconnection
23 can be accomplished?

24 WITNESS CANIS: Yes, that's correct.

25 COMMISSIONER LAUREDO: In the worst scenario

1 one three-by-seven cabinet would accommodate one AAV's
2 total interconnection requirement. Would that be a
3 correct statement?

4 WITNESS CANIS: Well --

5 COMMISSIONER LAUREDO: I mean, you would have
6 two or three of the so-called litigation bags?

7 WITNESS CANIS: Yeah. I think that's right.
8 But, again, from my experience that is what a typical
9 collocation arrangement now looks like.

10 There are some --

11 COMMISSIONER LAUREDO: That's interesting
12 because I made a note back at the beginning that you
13 said that you have negotiated several collocation
14 agreements, but you have not been inside any of them.
15 Did I take those notes incorrectly?

16 WITNESS CANIS: No. No, that's true. I
17 haven't been in any LEC central offices.

18 COMMISSIONER LAUREDO: Okay. So we're going
19 a little bit on what you can also visualize because you
20 haven't had a lot of access to the physical plants.

21 WITNESS CANIS: Well, that's true.

22 COMMISSIONER LAUREDO: My question, then,
23 follows is that it is theoretically possible that each
24 -- all you need if you were to have physical
25 collocation is the three-by-seven cabinet?

1 WITNESS CANIS: Yes.

2 COMMISSIONER LAUREDO: Which is a total of 21
3 square feet. And the petition asked for -- for an
4 isolated 100 square foot area.

5 WITNESS CANIS: That's correct.

6 COMMISSIONER LAUREDO: So, theoretically
7 further, if we were to segregate, just so that we can
8 avoid a lot of planning problems and growth of other
9 AAVs, a 100-square foot area, which one company is
10 requesting, can theoretically can accommodate four
11 companies.

12 WITNESS CANIS: That is possible, yes.

13 COMMISSIONER LAUREDO: So if your concern was
14 the so-called competitive advantage, secrecy and all
15 those other things you articulate, you could share --
16 that problem would still exist before AAVs would have a
17 key to that one cage.

18 WITNESS CANIS: Oh, yes.

19 COMMISSIONER LAUREDO: So now it's no longer
20 the LECs that you have a problem with, you have a
21 problem with your three other competitors.

22 WITNESS CANIS: You know, frankly,
23 Commissioner, the whole issue of that security is an
24 issue that the LECs have raised.

25 I can tell you that AAVs routinely collocate

1 with interexchange carriers, like AT&T, MCI, Sprint and
2 also with large users, and the typical arrangement
3 there is just an open bay, stuck in the corner of a
4 room someplace, and you have access to it. You don't
5 typically see -- where friendly parties are working
6 together, you don't have this adversarial relationship,
7 you don't see the need for heavy-duty security and
8 cages and all that kind of thing.

9 COMMISSIONER LAUREDO: Oh, I thought you were
10 advocating -- I'm sorry, I misunderstood. You're
11 advocating a secure cage.

12 WITNESS CANIS: Not necessarily, no. I can
13 tell you that the ten-by-ten foot cage is something
14 that really grew out of New York Telephone's
15 negotiations. They were the first ones in the country
16 to establish a physical collocation arrangement and
17 they kind of chose that. It came up in negotiations.
18 They said, "Well, how is ten by ten?" We said, "That's
19 fine. That's more than enough space for us."

20 COMMISSIONER LAUREDO: Let me see -- let me
21 see if I -- walk me through it. I'm trying to
22 understand.

23 What really is your concern? Is it to have a
24 -- you just said you don't have any security problems,
25 so you don't mind having your equipment in an area

1 where the LECs and other AAVs have access to your
2 equipment, true?

3 WITNESS CANIS: For every collocation
4 arrangement that has ever been tarified, the LECs have
5 provisions in there that they have the right to go in
6 at any time in any respect.

7 COMMISSIONER LAUREDO: It didn't mean the
8 right to go in. I mean to physically bump into your
9 equipment, to physically see what you just bought and
10 brought in, to physically -- and perhaps engage in some
11 sort of competitive spying.

12 WITNESS CANIS: No. It's really not a
13 problem for these reasons: First, we have to
14 interconnect with their equipment, so sooner or later
15 they are going to know what we have in that central
16 office, anyway, so there are no real secrets in that
17 regard.

18 Secondly, our personnel, just like their
19 personnel, are highly trained professionals. We don't
20 really worry about sabotage or even, you know, klutzy
21 repairmen bumping into these things and shutting them
22 down.

23 And, again, I have been in LEC central
24 offices in the past, but I haven't toured a collocation
25 arrangement, and I have been many nodes from

1 competitive access providers. And you just see open
2 banks, kind of looks like a library, just stacks of
3 shelves with room to walk in between and access to the
4 different areas. That's the way that the LECs work.
5 That's the way that we work.

6 Now, it's the LECs requirements and concerns
7 about security within their central offices that have
8 really driven this whole issue of identify a whole
9 separate area, build the cages and have it in a area
10 that can't be accessed -- that is cut off from access
11 to any other part of the central office. That's really
12 a LEC concern; that's not an AAV concern.

13 COMMISSIONER LAUREDO: So you do not have any
14 need for either hundred square feet or a cage. All you
15 really want is to have physical versus virtual
16 interconnection and to have somebody from your Company
17 with a tag to be able to go in and touch it, feel it.

18 WITNESS CANIS: That's the bottom line.

19 COMMISSIONER LAUREDO: Okay. It doesn't come
20 across in the testimony.

21 WITNESS CANIS: I'm sorry. And, you know, it
22 is an unusual situation.

23 COMMISSIONER LAUREDO: But it's physically --
24 it's unusual but it needs to be physically described
25 for us to make a judgment.

1 WITNESS CANIS: Yeah. And, you know, I
2 apologize for not getting that across more clearly.

3 The way things have just happened, though,
4 the collocation standard established by New York
5 Telephone has kind of been adopted as a de facto
6 standard by the industry. But, as I mentioned, we're
7 really making this up as we go along and it doesn't
8 have to be that way.

9 COMMISSIONER LAUREDO: By the way, you do not
10 see a qualitative difference, a competitive qualitative
11 difference between a -- you allude to it in your
12 testimony to the access, to the central office
13 equipment by a supplier of that LEC as versus an
14 individual from a competitor.

15 WITNESS CANIS: That is exactly right.

16 COMMISSIONER LAUREDO: And why is that?

17 WITNESS CANIS: The bottom line here is that
18 when people go into a central office, they are highly
19 trained professionals. We just wouldn't have the them
20 working on our equipment if they weren't. And just
21 like the professional consultants or engineers that are
22 hired by LECs, these people know what they are doing,
23 they have codes of conduct, they have electrical codes
24 and Bellcore standards that they adhere to. And for
25 that reason, you know, when the LECs talk about

1 security issues, they kind of paint a picture of some
2 kind of maniac who is running around the central office
3 sabotaging their equipment. Collocation is a fact of
4 life. It happens every day. Most of the LECs at this
5 table are collocated with customers or with individual
6 users or with interexchange carriers.

7 COMMISSIONER LAUREDO: You don't have any
8 problem with security and with sharing and with them
9 touching and looking at your equipment.

10 WITNESS CANIS: Not at all. Not at all.

11 COMMISSIONER LAUREDO: Thanks.

12 COMMISSIONER CLARK: Go ahead Mr. Murphy.

13 Q (By Mr. Murphy) Mr. Canis, just for the
14 record I'd like to clarify something. There's been
15 some discussion of CAPs. What is a CAP?

16 A A CAP is the term coined by the -- well, it
17 stands for competitive access provider. It is
18 essentially the same as AAV, and I'm used to using the
19 word "CAP" because that was a term coined by the trade
20 association, ALTS, Association for Local
21 Telecommunications Services. So if I switch back and
22 forth, I apologize. But they are synonymous.

23 Q Thanks. What is the status of physical
24 versus virtual collocation at the FCC?

25 A The FCC has established standards that

1 mandate physical collocation in all central offices
2 except in two instances: One is where a voluntary,
3 negotiated arrangement for virtual collocation has been
4 negotiated between a collocater and the LEC; and two is
5 where the LECs demonstrate to the FCC's satisfaction
6 that a central office lacks adequate space to provide
7 physical collocation.

8 Q Do you think that that should be mirrored in
9 Florida?

10 A I do.

11 Q It's our understanding that the FCC is
12 investigating LEC rate, terms and conditions for
13 expanded interconnection. Is that correct?

14 A That is correct.

15 Q What is your understanding of the status of
16 this investigation?

17 A All of the LECs' tariffs, federal tariffs for
18 collocation, have been suspended and are now being
19 investigated by the FCC and any ongoing amendments or
20 changes to those tariffs are automatically suspended
21 and incorporated into that investigation.

22 The LECs were ordered to provide detailed
23 direct cases to provide additional data to support
24 their proposed rates and terms and conditions. Those
25 were filed, I guess, about two weeks ago and comments

1 are due on the 20th of this month. Reply comments are
2 due on the 30th.

3 It is likely that -- and again, this is my
4 opinion. It is likely that the FCC will take maybe
5 seven months or so, or perhaps longer, to resolve this
6 investigation and come out with a final order that
7 either approves the LECs' tariffs rates, terms and
8 conditions, or prescribes rates, terms and conditions.

9 Q How should the decision at the FCC on these
10 issues affect what the Florida Commission does
11 regarding rates, terms and conditions on the intrastate
12 level?

13 A As we have mentioned before in this
14 proceeding, the FCC's order does not require any
15 specific action to be taken by this Commission. I
16 would ask, however, that this Commission use some of
17 the experience and some of the data that are available
18 through the FCC's proceeding in establishing its own
19 policy for collocation.

20 My own feeling is that there has been so much
21 litigation -- it's a very hotly contested litigation
22 now over the reasonableness of the rates, terms and
23 conditions that the LECs have tariffed for collocation
24 on the federal level. And that to the extent that this
25 Commission required mirroring or some form of

1 uniformity to allow direct comparison between rates,
2 terms and conditions that are published on the
3 intrastate level and those published on the interstate
4 level, it would greatly add to the ability of this
5 Commission and interested parties to compare the two
6 different types of tariffs and I believe that it would
7 assist the Commission and the public in determining
8 whether the intrastate collocation rates, terms and
9 conditions are reasonable.

10 Q One more question regarding the FCC.

11 You've indicated that, regarding collocation,
12 you believe that the Florida Commission should mirror
13 the FCC. What problems would be created if there were
14 differences regarding collocation at the inter- and
15 intrastate levels?

16 A Depending on how widely any rules adopted by
17 this Commission may depart from the FCC's, it could
18 lead to substantial diseconomies.

19 For instance, if at the most extreme level
20 this Commission adopted a mandatory virtual collocation
21 policy that was completely at odds with the mandatory
22 physical collocation standards adopted by the FCC, it
23 may require collocators to build a whole -- that have a
24 federal collocation arrangement already built to build
25 a whole new arrangement for intrastate services. And,

1 again, I think this would be just from an engineering
2 as well as an economics standpoint highly inefficient.

3 I believe that to the extent that this
4 Commission is able to conform or to make uniform its
5 standards for collocation so that they are harmonious
6 with the FCC's, it would greatly increase the
7 efficiency and economy with which collocators could
8 achieve collocation.

9 Q Would you briefly describe a typical AAV
10 network and what services this type of network allows
11 an AAV to provide.

12 A There are a whole range of AAVs and many use
13 different types of technologies. For instance, there
14 are microwave-based AAVs that use radio-based antennas,
15 roof-mounted antennas to provide their services.

16 For the AAVs that are going to be obtaining
17 collocation, though, the typical AAV is a fiber-based
18 AAV. The typical arrangement and one that is becoming
19 very common among AAVs -- certainly, the majority of
20 AAVs use this configuration -- is a counterrotating
21 fiber ring. Basically, they set up their network in a
22 circular configuration and they have two major
23 backbones, so it's kind of one circle within another
24 circle.

25 On the outside the circuit kind of, the

1 signal travels this direction or in a clockwise
2 direction; on the other, it travels in the opposite
3 direction or in a counterclockwise direction. And what
4 this means, there's a primary and a secondary
5 transmission path, and they both carry the same signal
6 simultaneously. That means if you have your typical
7 backhoe incident where somebody cuts your cable, that
8 automatically triggers a response in the monitoring
9 office. They shift from the primary link, which has
10 been just cut, to the secondary link; the service is
11 recovered instantaneously.

12 In terms of the types of service offered,
13 there is an extraordinary range, an extraordinary
14 variety, depending on the types of services that AAVs
15 are permitted to provide in any given jurisdiction.
16 New York recently permitted collocated AAVs to provide
17 the full range of service, basically anything from
18 residential dial tone to high-capacity services.

19 The Federal Communications Commission has now
20 established rules mandating physical collocation for
21 all special access services. The initial collocation
22 arrangements will just deal with high-capacity DS-1 and
23 DS-3 services, but LECs are obligated to provide
24 collocation for all special access services.

25 The FCC, in an order released a week ago last

1 Friday, also required that the LECs file tariffs for
2 switched access collocation. Those tariffs have to be
3 filed on November 15th and are now scheduled to take
4 effect on February 18th of next year.

5 Among different states, there are different
6 restrictions as to what kinds of services AAVs may
7 provide; but basically, we see AAVs capable of
8 providing the full gamut of telecommunications
9 services.

10 Q And in Dr. Beauvais' testimony he refers to
11 expanded interconnection as simply a cheaper
12 interconnection to the LEC network by non-LEC
13 providers. Do you agree with this characterization?

14 A No, I really don't. It's not just a question
15 of cheapness, it is a question of parity along a whole
16 possible criteria: operational, technical, as well as
17 economic, administrative.

18 Essentially, physical collocation and virtual
19 collocation are means of allowing AAVs or interexchange
20 carriers or large users to interconnect with the LEC
21 network on the same terms and conditions that the LEC
22 interconnects with its own facilities. It is this kind
23 of parity across all those operational, economic,
24 engineering and administrative lines that is necessary
25 if true competition is to exist.

1 Q You may have answered parts of this, but what
2 I would like for you to do is to contrast how you
3 provide service currently as an AAV to how service will
4 be provided with expanded interconnection. How will
5 this change your world?

6 A Right now, AAVs can provide service only to
7 customers that are physically located on their network.
8 And to the extent that new customers come on that are
9 located somewhat off network, they have to construct
10 facilities that physically attach those customers to
11 their backbone network. This necessarily restricts the
12 universe of customers that are available to take
13 service from AAVs.

14 Under collocation, AAVs will be able to
15 interconnect their services to the LEC's central
16 office. In doing so, they will be able to connect to
17 their networks service that originates or terminates
18 anywhere on the LEC network. And this necessarily will
19 increase substantially the number of customers that may
20 avail themselves of AAV services.

21 Q Is there a difference in the way you provide
22 service to a large customer, a typical customer, versus
23 an IXC?

24 A Physically, the arrangements are identical.
25 The equipment used is similar. The one major

1 difference is in volume or capacity. Typically, the
2 largest IXC's use very high volumes, DS-3 or multiple
3 DS-3 volumes; and we find in general individual users
4 use smaller capacities.

5 When you get to smaller IXC's, there's really
6 no difference between them and end-user customers.

7 COMMISSIONER LAUREDO: May I ask a
8 clarification on the previous answer you gave? In
9 answering the difference in service, I think you
10 alluded that you would, in essence, your company would
11 have or I interpret it to have it to expand its service
12 potential. Because now you can go outside of your own
13 network, which you invested capital to do.

14 WITNESS CANIS: Yes, sir.

15 COMMISSIONER LAUREDO: Would it be fair to
16 deduct from that that the objective of that move would
17 be to become another local exchange company?

18 WITNESS CANIS: I think ultimately
19 Intermedia, like virtually any CAP, would like to
20 provide the full range of services that this Commission
21 authorizes. However, since its inception, Intermedia
22 has grown providing special access and private line
23 services on the inter- and intrastate level. That is
24 certainly the meat and potatoes of our business now,
25 and that is the real focus for these achieving

1 collocation in the near term.

2 In the long term, I think Intermedia is going
3 to be quite aggressive in looking to expand its
4 operations to provide whatever kind of services this
5 Commission deems it appropriate.

6 COMMISSIONER LAUREDO: The reason I asked
7 you, and I'm not prejudging, is I've had, since I have
8 been a Commissioner, a frustration with procedures and
9 the way we make decisions. And ironically today the
10 Miami Herald published a letter that I wrote about two
11 weeks ago pursuant to an editorial they made about the
12 -- entitled "When Monopolies Collide," about the
13 emergence of convergence, I guess, of cable companies
14 and telephone companies.

15 And I allude in that letter my frustrations
16 that we lack the ability here to do the vision thing.
17 We don't think about where we want to be ten years from
18 now and work back from that, we just kind of fall into
19 an incremental building of many decisions, usually very
20 narrow technically as well as legally.

21 And I think you alluded to that twice today
22 as I asked you broader questions to try to bring it
23 back.

24 But aside from the testimony and all the
25 stuff we will decide narrowly on this case, you are

1 conceding to me that there's a broader move here, and
2 that is that there are companies like yours that would
3 like to, in essence, get into the local telephone
4 business somewhere down the line and this is a step in
5 that direction.

6 WITNESS CANIS: I think that's true.

7 COMMISSIONER LAUREDO: Okay. I think
8 sometimes it's, you know, it's important to starkly
9 point out things that --

10 COMMISSIONER CLARK: I think Mr. Guedel says
11 that, this is sort of the first step.

12 WITNESS CANIS: Well, also, Commissioner, if
13 I may, the technology here is emerging at such a
14 wonderful speed that right now the distinctions that
15 may exist between special access and switched access
16 are really starting to go away. And while maybe 10, 20
17 years ago the distinction between the two types of
18 services was technically based -- it was based on the
19 kind of facilities, the capacity -- now, everything is
20 moving to fiber; everything is moving to digital
21 equipment. And in doing so, you are able to provide
22 the full range of services, everywhere from voice grade
23 to video.

24 COMMISSIONER LAUREDO: I understand. I'm not
25 saying that I agree or disagree. I just kind of

1 sometimes like to say things in plain English on the
2 record so that we can kind of keep our eye on the big
3 picture. And that's all I really wanted to accomplish.

4 WITNESS CANIS: No, I absolutely agree and --

5 COMMISSIONER LAUREDO: This is a very
6 important directional issue, notwithstanding the
7 narrowness of what we have to decide. That's all I
8 really wanted to accomplish.

9 COMMISSIONER CLARK: While you have been
10 interrupted, Charlie, I wanted to ask you about one of
11 the virtues that you identify with respect to the AAV
12 is the redundancy and the fact that through your fiber
13 loop you can reroute service.

14 WITNESS CANIS: Uh-huh.

15 COMMISSIONER CLARK: What happens whether you
16 now propose to connect to your customers through local
17 exchanges companies' facilities? Your redundancy is as
18 good as what the local exchanges company's redundancy
19 is for those customers you connect in that manner?

20 WITNESS CANIS: Well, it kind of depends.
21 First, we mentioned earlier that the LECs are starting
22 to build redundant facilities. And usually it's a
23 service option that they available in their tariff. So
24 it's possible that if we have one LEC network and it
25 interconnects with one LEC central office, if that LEC

1 has a redundant network, then we can provide redundancy
2 on that full circuit from one customer to the other.
3 If, under that scenario, though, the LEC does not have
4 redundancy, you're right, we can only guarantee
5 redundancy on our network. However --

6 COMMISSIONER CLARK: So the --

7 WITNESS CANIS: Oh, I'm sorry.

8 COMMISSIONER CLARK: So the redundancy there
9 is what the LEC will be providing?

10 WITNESS CANIS: No. Well, yeah, whether it
11 exists --

12 COMMISSIONER CLARK: When you interconnect to
13 your customers through the LEC facilities, the
14 redundancy will depend on what the LEC provides as
15 redundancy?

16 WITNESS CANIS: For that leg of a
17 transmission. However, let's just take it a step
18 further.

19 We're looking at one LEC network, one -- I'm
20 sorry, one AAV network, one LEC CO and one customer.
21 Let's assume that that AAV obtains collocation in two
22 LEC central offices and that customer can now have the
23 option of connecting with both those LEC central
24 offices. Even if the LEC facilities are not redundant,
25 he can now go through from the customer location to two

1 LEC COs to the redundant LEC network -- AAV network.
2 Therefore, you can get that form of redundancy even by
3 using a nonredundant LEC network if the AAV is
4 collocated in multiple central offices.

5 COMMISSIONER CLARK: He could likewise get
6 the redundancy from the LEC.

7 WITNESS CANIS: Uh-huh.

8 COMMISSIONER CLARK: He just has to connect
9 to the two LEC central offices.

10 WITNESS CANIS: Right. If they have that
11 capability, yes.

12 COMMISSIONER CLARK: So the idea that you're
13 providing redundancy is not going to be true in this
14 kind of service?

15 WITNESS CANIS: It may not be true in all
16 cases, it may not be true that you are going to have a
17 complete redundant circuit all the way.

18 COMMISSIONER CLARK: Well, in fact, it won't
19 be true unless it's the LEC that's providing the
20 redundancy.

21 WITNESS CANIS: That's correct.

22 COMMISSIONER CLARK: Okay.

23 WITNESS CANIS: Now, keep in mind, though,
24 that there are different ways to obtain redundancy from
25 the LEC service.

1 COMMISSIONER CLARK: Yeah, but the customer
2 can -- I mean, he can use the LEC to do what he would
3 do if he had the AAV. I mean, you're sort of a
4 superfluous party in that.

5 WITNESS CANIS: Well, I hardly think we're
6 superfluous. You know, I think --

7 COMMISSIONER CLARK: In that transaction. I
8 mean, I'm just getting to the point where you say that
9 one of the virtues is redundancy, but that's not true
10 when you interconnect through the LEC's facilities.

11 WITNESS CANIS: It's like this. If the AAVs
12 now offer fully redundant, state-of-the-art,
13 top-of-the-line services and the LECs do not, to the
14 extent that you're making that connection over the LEC
15 network, you're going to have to accept their
16 limitations.

17 COMMISSIONER CLARK: Right.

18 WITNESS CANIS: However, -- and that's how
19 things stand right now. However, if we look down the
20 road a few years where all of a sudden we start to see
21 very broad interconnection between LEC networks and AAV
22 networks -- so maybe you have multiple AAVs, you may
23 have multiple AAVs interconnecting in different
24 offices, you may have LECs interconnecting in AAV
25 sites, or at least able to pass their traffic off to

1 collocated AAVs in different central offices -- all of
2 a sudden what you're doing now is evolving the
3 survivability and redundancy of the entire network. It
4 is not just a question of, is this link better or is
5 that link better?

6 Right now on interstate services, for long
7 distance travel, if AT&T's -- and, you know, I know we
8 have different IXCs here, I'm just picking one for
9 example. Let's say AT&T's network goes down, they have
10 a line cut. They offload as much of their traffic as
11 they can to MCI and to Sprint. Why? Because they're
12 fully interconnected at multiple points.

13 What you have is an evolving, survivable
14 network. And it's not something that we're going to
15 have immediately, but collocation is a step toward that
16 end.

17 COMMISSIONER CLARK: What you're saying is
18 the more players you have the more wire you'll have in
19 the ground and the more opportunity for redundancy?

20 WITNESS CANIS: Yes. And the more
21 interconnectivity that you have among different
22 networks, the greater the overall survivability, yes.

23 COMMISSIONER CLARK: Okay. Go ahead.

24 Q (By Mr. Murphy) We were talking about
25 various types of services provided by AAVs, and we were

1 contrasting collocation versus not collocation. Under
2 the two scenarios, what is the difference in charges to
3 the AAV by the local exchange company?

4 A In a noncollocated environment the only way
5 an AAV can interconnect with the LEC network is buy the
6 same kind of services that any end user provides.
7 These are typically a channel termination charge.

8 Those charges include not only
9 interconnection -- connection services or functions
10 within the central office but they also include
11 transmission and transport from the LEC's CO to the
12 customers' premises. Now, for AAVs they already
13 provide their own transmission; they don't need to buy
14 more transmission from the LEC.

15 So under the current tariffed structure, in a
16 noncollocated environment, they have to buy a whole
17 series of functionalities that they neither need nor
18 want.

19 In a collocated environment, the LEC is able
20 to, at its own -- the AAV is able to, at its own cost,
21 provide its own equipment, its own cabling, just as it
22 does when it builds its own network and to achieve
23 collocation using just the functionality that it needs
24 on a cost-efficient basis.

25 Q Is it possible -- we've talked about these

1 differences in general terms. Is it possible to
2 quantify them in a hypothetical, even as a late-filed,
3 specifically the differences in charges between the two
4 scenarios?

5 A Right now, typically -- and I'll talk about
6 the federal level because interstate rates are those
7 that I'm most familiar with.

8 A typical DS-1 channel termination costs,
9 let's say, \$125 a month. Now that -- there can be a
10 lot of variations there but that's a pretty safe number
11 I think to use as an average.

12 Right now, under the rates currently filed
13 with the FCC, and these are rates, by the way, that the
14 AAVs feel are highly excessive, and that the FCC now
15 has under investigation. But, still, even using those
16 what we consider to be excessive rates, if you break
17 down the total recurring and nonrecurring charges for
18 collocation through the LEC's federal collocation
19 tariffs, the interconnection charge comes out to about
20 mid-\$30 per DS-1 interconnection. So if you bought a
21 channel termination, you'd have to pay an average of
22 \$125, even with what we consider to be the excessive
23 collocation rates that are now tariffed on the federal
24 level that goes to about roughly \$35.

25 Q We may come back to that.

1 COMMISSIONER CLARK: Mr. Murphy, how much
2 more do you have?

3 MR. MURPHY: I have ten more questions.

4 COMMISSIONER CLARK: Okay. We'll take a
5 lunch break after you're through.

6 Q (By Mr. Murphy) Mr. Canis, what economic
7 signals are generally present which cause a competitor
8 to enter a market?

9 A Basically, the perception that a need for its
10 services exists. This can be if the -- and since we're
11 talking about competing against the LECs, if the LEC's
12 services are priced excessively, if the LEC doesn't
13 offer a variety of services or the type of service that
14 the -- that the competitor could provide, and if the
15 LECs do not provide the level of customer
16 responsiveness that is often required. All of these
17 areas, product innovation, price, and customer
18 responsiveness, the willingness and ability to turn up
19 service on a highly expedited basis or to customize
20 service to meet individual customers' needs are all
21 extraordinarily strong selling points that AAVs have
22 been able to use over the past five years.

23 Q You mentioned prices, can regulation
24 artificially constrain prices so that new entrants will
25 use these higher rates as an opportunity to enter a

1 market?

2 A To my experience that hasn't happened yet.
3 You know, theoretically, it could be if a Commission
4 prohibited any LEC rate changes under any
5 circumstances. But we say in states that are promoting
6 collocation and, indeed, in a lot of states that don't
7 really have collocation yet, the LECs have been given
8 extraordinary pricing flexibility that would allow them
9 to meet any competitive response.

10 I believe that is the case that currently
11 exists in Florida. That LECs have considerable pricing
12 flexibility that would enable them to meet any --
13 respond to competitors.

14 COMMISSIONER CLARK: Mr. Canis, I think you
15 have astounded everyone in this room.

16 I guess what comes to mind is average rates
17 for long distance service. I mean, it certainly costs
18 more to serve some remote areas than it does to serve
19 between large metropolitan areas, and to that extent
20 the requirement that a carrier average its rates for
21 long distance service has the effect of allowing
22 competitors to come in and underprice or price closer
23 to cost in the markets where it costs less.

24 WITNESS CANIS: Commissioner, I was answering
25 that question under the assumption that we're only

1 talking special access and private line.

2 COMMISSIONER CLARK: Okay.

3 WITNESS CANIS: And, of course, that's the
4 area where competition has been coming in.

5 I certainly agree that in any jurisdiction
6 that is considering collocation as a means of promoting
7 competition for, say, switched services, they have
8 looked at the need to restructure pricing. It happened
9 in New York, it's happened at the FCC, and I have no
10 doubt that that kind of a scrutiny is appropriate here
11 as well.

12 COMMISSIONER CLARK: Go ahead, Charlie.

13 Q (By Mr. Murphy) Are you aware that there are
14 statewide average rates for special access in Florida
15 -- in private line. I'm sorry.

16 A Yes, I am.

17 Q Company specific.

18 A Uh-huh.

19 Q Okay. Changing gears a little bit.

20 In terms of percentages, for a typical AAV,
21 what are the revenues received from IXCs versus large
22 users?

23 A You know, I really am not prepared to answer
24 that in any but a very generic way.

25 My understanding is that from very large

1 IXCs, particularly AT&T, constitute a significant
2 source of revenues for LECs. Other than that, I really
3 have no specific information.

4 Q Is it true that there's a significant value
5 to an AAV from expanded interconnection because the AAV
6 can avoid millions of dollars in capital expenditures
7 from not having to install an extensive network?

8 A Well, I guess I have to agree with that,
9 although it's -- all due apologies, it's kind of a
10 loaded question.

11 I can tell you that AAVs are not looking at
12 collocation as an excuse not to build their networks.
13 And every AAV that I know is very aggressively
14 expanding its network, increasing it's capital outlays
15 in improving, updating and expanding its network as
16 much as possible. It is true, however, that
17 collocation would allow an AAV to expand its potential
18 customer base very significantly.

19 Q What aspects of the LEC network do you
20 consider to be bottleneck?

21 A Without collocation, the entire local
22 exchange network. With collocation, essentially just
23 the central office.

24 COMMISSIONER CLARK: The switching?

25 WITNESS CANIS: The central office itself.

1 This actually gets to the issue of reasonable rates,
2 terms and conditions for collocation, and essentially
3 why AAVs feel it is so important for regulatory bodies
4 to closely scrutinize those areas.

5 The LECs own and control that central office
6 and even with collocation you have to ask them to
7 interconnect. And if they have cart blanche to
8 establish the rates, terms and conditions, you may be
9 subject to price gouging or unreasonable conditions.

10 The bottom line is there is only one central
11 office and the LEC owns it, so it's not just for
12 switching, like for switched services, but that whole
13 issue about how to interconnect with the broader LEC
14 network. The central office represents a bottleneck in
15 that function.

16 MR. MURPHY: We're going to have a series of
17 loaded questions now.

18 COMMISSIONER CLARK: What is the central --
19 let me -- what are you -- it seems to me that in, I
20 guess, ultimately where I guess this path is leading us
21 is not only will there -- there will be competition for
22 access, both private line and switched. And I guess if
23 you do -- if we do approve actual collocation, what is
24 the bottleneck? I mean, when you say central office, I
25 think of a central office as a functions provider.

1 WITNESS CANIS: Yeah.

2 COMMISSIONER CLARK: So I'm assuming that it
3 will only be the switched function that is -- will
4 remain a monopoly, I guess. Because you'll have access
5 to everything going out, all the loops going out.

6 WITNESS CANIS: That's true. Of course, we
7 have access to those loops now. We can buy regular
8 telephone service and I can reach anyone on a LEC's
9 loop. But I have to take that interconnection, I have
10 to take that connection at rates, terms and conditions
11 set by the LEC and, of course, approved by the
12 Commission. So inasmuch as we're talking about LEC
13 control and the ability to price a critical facility
14 that determines whether you can reach the end user or
15 not, I consider that a bottleneck. And even with
16 collocation, that gives us access. However that's only
17 usable access if the Commission ensures that the rates,
18 terms and conditions are reasonable.

19 COMMISSIONER CLARK: Go ahead, Charlie.

20 Q (By Mr. Murphy) Would you agree that the LEC
21 network which exists today was built by capital
22 generated from both LEC ratepayers and stockholders?

23 A Yes, I think that's a fair statement, yes.

24 Q Do you believe that the AAVs have a right to
25 expand an interconnection?

1 A Well, the AAVs have as much right as this
2 Commission or any other regulatory body deems
3 reasonable. I would say that to the extent that the
4 benefits of competition are self-evident and
5 well-documented, I would hope that this Commission
6 deems it reasonable to provide LECs -- AAVs with that
7 rate.

8 Q Do the AAVs have a right to obtain access to
9 the LEC's network at a price lower than other LEC
10 customers?

11 A My feeling is that as a basic tenet of
12 ratemaking for any regulatory body, is service is
13 provided on a cost basis. Inasmuch as interconnection
14 between two telecommunications carriers requires a
15 minimal amount of functionality that isn't used by an
16 end user, then I think it is appropriate that that
17 interconnection be based on cost. As it would work
18 out, that would certainly be cheaper if you break it
19 down on a per circuit basis than what an end user that
20 didn't operate its own network that would have to pay
21 for a similar functionality.

22 Q So you believe it's appropriate for an AAV to
23 provide lower contribution to the LEC for its access
24 than other LEC customers?

25 A Well, wait a minute now. The issue of

1 contribution is very highly charged and largely
2 anecdotal.

3 It has been the position of Intermedia and
4 other AAVs across the country that they are certainly
5 willing to pay any contribution element that may
6 reasonably be required of them. The problem is that,
7 in my experience, no LEC has identified what services
8 provide contribution, how much that contribution is,
9 what services benefit from that contribution and what
10 services receive that subsidy. To the extent that that
11 kind of data is available, subject to public scrutiny
12 and adequately identified and justified by the LEC, we
13 are certainly willing to pay our fair share.

14 Q Dr. Beauvais testifies -- in his testimony he
15 uses an example of a gas station owner having to
16 provide space to his competitor with that of
17 collocation. What is your view of Dr. Beauvais'
18 analogy?

19 A I really believe that's not an appropriate
20 analogy. What we're talking about here is the
21 interconnection of networks.

22 If you didn't have mandated interconnection,
23 you wouldn't see competition on the long distance
24 market. Indeed, you wouldn't see -- you probably
25 wouldn't see international calling for MTS. The bottom

1 line here is you've got two different networks both
2 providing service to the public. To the extent that
3 competition injects innovation, lower cost and
4 increased customer choice, mandatory rules governing
5 and mandating interconnection of those networks
6 certainly serves the public interest and serves the
7 interest of competition.

8 MR. MURPHY: Thank you. We have a few
9 housekeeping matters, but that concludes my questions.

10 Could we get a late-filed exhibit for DS-1
11 and DS-3 comparing actual costs under collocation
12 versus noncollocation? That will be at the FCC.

13 COMMISSIONER CLARK: Give me a short title.

14 MR. MURPHY: "Cost, Collocation Versus
15 Noncollocation."

16 COMMISSIONER CLARK: "Costs Comparison Under
17 FCC order"?

18 COMMISSIONER CLARK: Cost comparison of --

19 MR. MURPHY: Collocation versus status quo.

20 COMMISSIONER CLARK: Do you mean physical
21 collocation or virtual collocation?

22 MR. MURPHY: We're referring to physical
23 collocation tariffed under the FCC order.

24 COMMISSIONER CLARK: And compared to what?

25 MR. MURPHY: Compared to noncollocation

1 service, charges by the LECs.

2 WITNESS CANIS: That's fine.

3 COMMISSIONER CLARK: All right. Give me the
4 title again.

5 MR. MURPHY: Oh, you were helping me so well,
6 Commissioner Clark.

7 "Comparison Charges, Collocation versus
8 Status Quo."

9 (Late-Filed Exhibit 5 identified.)

10 COMMISSIONER CLARK: Comparison -- cost
11 comparison of charges for DS-1

12 MR. MURPHY: 1 and DS-3:

13 COMMISSIONER CLARK: With and without
14 collocation?

15 MR. MURPHY: Yes.

16 COMMISSIONER CLARK: Mr. Canis, you
17 understand what he's asking.

18 WITNESS CANIS: Yes, I do, Commissioner.

19 MR. MURPHY: One more thing, we handed out a
20 chart of virtual collocation. That was intended to
21 replace Page 118 of Exhibit No. 3, JC-2, which,
22 unfortunately, was a duplicate page.

23 COMMISSIONER LAUREDO: A duplicate of the
24 physical collocation.

25 MR. MURPHY: Yes, there were two physical

1 collocations.

2 COMMISSIONER LAUREDO: Okay.

3 MR. ERWIN: Excuse me. Could I ask a
4 question about that? Could someone tell me what an AOC
5 central office is? I know what a LEC central office
6 is.

7 COMMISSIONER LAUREDO: If you keep asking all
8 of these rational questions, you're never going to get
9 through the nominating council.

10 I was going to ask some of those questions,
11 but I guess you want to -- is he going to be excused?

12 MR. ERWIN: Well, I don't know the answer to
13 the question.

14 WITNESS CANIS: Excuse me. I have a real
15 quick answer to that. This was taken from a Ameritech
16 pleading. It's Ameritech's illustration. So that's an
17 Ameritech operating company central office.

18 COMMISSIONER CLARK: Got that, Mr. Erwin?

19 COMMISSIONER LAUREDO: Are we going to have
20 him back after lunch?

21 COMMISSIONER CLARK: He'll be back for
22 direct, but you will have an opportunity before direct
23 to ask questions.

24 MR. ERWIN: Before that, I had one other
25 request to make before you go to lunch, but I wouldn't

1 want to do it until perhaps after lunch. But on the
2 cross examination conducted by Mr. Murphy, something
3 came out that appears to me to be somewhat different
4 than the direct testimony from the witness having to do
5 with the regulatory scheme pertaining to non-Tier 1
6 local exchange companies, in which Mr. Canis indicated
7 there would be a general obligation on the part of the
8 non-Tier 1 LECs to respond and to request for
9 interconnection, and that the Commission would act as a
10 arbiter, and so forth, which I think differs somewhat,
11 or at least expands upon our response in the direct
12 testimony on Page 35. And I'd like an opportunity to
13 ask a few questions about that, if I could.

14 COMMISSIONER CLARK: I'll give you that
15 opportunity after lunch.

16 MR. ERWIN: Okay.

17 MR. MURPHY: Okay.

18 COMMISSIONER CLARK: That's it. We'll
19 reconvene at 1:30.

20 (Whereupon, lunch recess was taken at 12:30
21 p.m.)

22 (Transcript follows in sequence in Volume
23 II.)

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25