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June 23, 1993

Steve Tribble  
Director, Division of Records and Reporting  
Florida Public Service Commission  
Fletcher Building  
101 East Gaines Street  
Tallahassee, Florida 32399-0850

Re: Docket No. 921074-TP

Dear Mr. Tribble:

Enclosed for filing in the above docket is an original and 16 copies of the Direct Testimony of Paul Kouroupas on behalf of Teleport Communications Group.

Please date stamp the extra copy and return it in the enclosed self-addressed, stamped envelope.

Please call me at 718-983-2939 if you have any questions.

Thank you.

Sincerely,

*Jodie L. Donovan*  
Jodie L. Donovan  
Regulatory Counsel

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cc: Service List

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**DIRECT TESTIMONY  
OF  
PAUL KOUROUPAS  
TELEPORT COMMUNICATIONS GROUP**

**DOCKET NO. 921074-TP**

**JUNE 24, 1993**

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TELEPORT COMMUNICATIONS GROUP

DIRECT TESTIMONY OF PAUL KOUROUPAS

DOCKET NO. 921074-TP

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

2                    A.    My name is Paul Kouroupas and my business  
3                    address is One Teleport Drive, Suite 301,  
4                    Staten Island, New York 10311.

5

6        2.        Q.    What is your current position with  
7                    Teleport Communications Group Inc. (TCG)?

8                    A.    I am Manager of Regulatory Affairs.

9

10       3.        Q.    Please describe your qualifications.

11                    A.    In 1988, I graduated from Temple  
12                    University cum laude with a bachelor of  
13                    arts degree in communications. In 1992, I  
14                    graduated from the Catholic University of  
15                    America Columbus School of Law with a  
16                    Juris Doctorate degree. I also received a  
17                    certificate from the Communications Law  
18                    Institute of Catholic University, in  
19                    recognition of my completion of a  
20                    curriculum specializing in  
21                    telecommunications regulation. While  
22                    attending Catholic University, I worked as  
23                    an intern in the General Counsel's office

1 of the National Telecommunications and  
2 Information Administration from September  
3 1990 to December 1990. In addition, I  
4 worked as an intern in the office of  
5 Commissioner Andrew C. Barrett of the  
6 Federal Communications Commission from  
7 June 1991 until April 1992. Since June  
8 1992, I have been employed by TCG.

9

10 4. Q. What are your present responsibilities at  
11 Teleport Communications Group?

12 A. In my position at TCG, I am responsible  
13 for development and implementation of  
14 regulatory rules regarding  
15 interconnection.

16

17 5. Q. What is the purpose of your direct  
18 testimony in this proceeding?

19 A. I wish to address the issues identified by  
20 the Commission set forth in Appendix "A"  
21 of the Commission's Order No. PSC-93-0811-  
22 PCO-TP.

23 6. Q. Have you read the petition filed by  
24 Intermedia Communications of Florida for  
25 an order permitting AAV provision of  
26 services thorough collocation arrangements

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in local exchange company (LEC) central offices?

A. Yes, and I am familiar with the broader issues regarding private line and special access interconnection which are raised by this petition.

7. Q. Is expanded interconnection for special access and private line in the public interest?

A. Yes. Central office interconnection will provide significant benefits to consumers in Florida. In order to prepare for the competition they will face from collocated competitors, LECs will upgrade and improve their transmission infrastructure. All telephone company subscribers will then benefit from improved service, better quality and lower costs for the basic services transmitted over these upgraded networks. By acting upon competitive incentives to improve service to their customers, the LECs, themselves, will also benefit from competition.

Additionally, interconnection incents LECs

1 to reduce their costs and improve their  
2 efficiency. Furthermore, interconnection  
3 reduces the likelihood that LECs will  
4 experience stranded investment.

5 Interconnectors are purchasing and using  
6 portions of the LECs' networks -- portions  
7 of the network which could be stranded if  
8 large customers choose to bypass the LEC  
9 network by using alternative transmission  
10 facilities such as microwave.

11 Interconnection will allow competitive  
12 local carriers to serve unmet consumer  
13 demands for diversified telecommunications  
14 services and facilities. Interconnection  
15 can also alleviate the need for LECs to  
16 build expensive, additional capacity at  
17 ratepayer risk and expense: the LEC can  
18 simply use the facilities of the  
19 interconnector.  
20

21 8. Q. How does the FCC's order on expanded  
22 interconnection impact the Commission's  
23 ability to impose forms and conditions of  
24 expanded interconnection that are  
25 different from those imposed by the FCC  
26 order?

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A. Florida can extend the benefits of expanded interconnection beyond the scope of the FCC order in three crucial ways.

First, Florida should require interconnection at a DS1, DS3 and DS0 level to extend the benefits of collocation to all special access customers. The FCC order required interconnection for DS1 and DS3 only. Such a restriction denies the benefits of collocation to the large number of customers who currently use special access facilities with speeds below a DS1 capacity. The only way for a competitor to serve such customers under a collocation arrangement would be to purchase LEC multiplexing services and individual DS0 end links. This makes the competitor captive to the LEC's multiplexing prices and service quality, while at the same time eliminating any competitive check on the reasonableness of these multiplexing prices.

Second, Florida should institute a "fresh

1 look" provision designed to allow  
2 consumers to exercise their new-found  
3 freedom of choice in the special access  
4 market without incurring substantial  
5 penalties for doing so.

6  
7 Consumers should be free to terminate  
8 their contracts with the local exchange  
9 carriers without fear of incurring  
10 substantial termination liabilities.

11 Precedents for such action exist at the  
12 federal level where the FCC disallowed the  
13 imposition of any termination liabilities  
14 for customers who switched their 800  
15 service from AT&T to another carrier<sup>1</sup>, and  
16 for airlines who switched air-to-ground  
17 radiotelephone service providers.<sup>2</sup> Of  
18 course, the most famous example of such a  
19 policy dates back to Divestiture when  
20 customers were free to choose the long-  
21 distance carrier of their choice without

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22 <sup>1</sup>See, Competition in the Interstate Interexchange  
Marketplace, 7 FCC Rcd 2677 (1992).

24 <sup>2</sup>See, Amendment of the Commission's Rules Relative to  
Allocation of the 849-851/894-896 Mhz Bands, 6 FCC Rcd 4582  
(1991).

1 penalty.<sup>3</sup> These actions were necessary to  
2 effectuate the FCC's pro-competitive  
3 policies, and are as necessary in the  
4 instant proceeding. Without freedom of  
5 choice, there is no competition.

6  
7 Third, Florida should permit  
8 interconnectors to provide the local  
9 transport portion of switched carrier  
10 access. The local transport portion of  
11 switched carrier access service provides  
12 transmission facilities between an  
13 interexchange carrier ("IXC") point-of-  
14 presence ("POP") and a telephone company  
15 central office ("CO"). Local transport  
16 switched access facilities are dedicated  
17 point to point high volume facilities.  
18 Although telephone companies offer these  
19 services within "switched access" service  
20 categories, the economic and technical  
21 nature of local transport circuits are  
22 much more akin to private line services.  
23 Similar to private line services, local  
24 transport carrier access is provided

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25 <sup>3</sup>After a reasonable time, a minimal termination charge no  
greater than \$5.00 was imposed.

1                    between two discrete points, namely the  
2                    interexchange carrier POP and the  
3                    telephone company CO. There is no  
4                    "switching" or call routing involved in  
5                    local transport.

6  
7                    TCG estimates that local transport service  
8                    represents approximately 75% of all  
9                    circuits between an IXC POP and a  
10                   telephone company central office. IXCs  
11                   need the quality, reliability and  
12                   diversity of competitive alternatives for  
13                   these critical facilities. Moreover,  
14                   competition for the local transport  
15                   portion of switched access services  
16                   dramatically increases the prospects for  
17                   effective competition in traditional  
18                   private line services, which is, after  
19                   all, the purpose of this proceeding.

20  
21                   IXCs typically require both special access  
22                   and switched access services, and many  
23                   combine their traffic on one facility for  
24                   the inherent efficiencies of such an  
25                   arrangement. TCG estimates that 75% of  
26                   the circuits between an IXC POP and a

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telephone company central office are for switched services. If TCG is able to compete for the provision of the local transport portion of switched access services on the same terms and conditions as the local exchange carriers, TCG will be better able to address the total access needs of IXCs and will be able to develop the same economies of scope and scale that local exchange carriers enjoy.

Under current circumstances, local exchange carriers are permitted to combine access services on one facility and address the total access needs of consumers. Without similar ability, interconnectors cannot effectively compete. The imposition on interconnectors of what is essentially a line-of-business restriction handicaps interconnectors' ability to compete against "un-handicapped" local exchange carrier facilities.

The removal of any artificial "shielding" of the vast majority of central office

1 access traffic from competitive choice  
2 allows the proven benefits of reliable,  
3 diverse and competitive central office  
4 access services to benefit Florida  
5 consumers.

6  
7 9. Q. Does Chapter 364 of the Florida Statutes  
8 allow the Commission to require expanded  
9 interconnection?

10 A. Yes. Section 364.01 grants the Commission  
11 "exclusive jurisdiction" over all  
12 telecommunications matters and  
13 specifically directs the Commission to  
14 encourage cost-effective innovation and  
15 competition in the telecommunications  
16 industry if so doing will benefit the  
17 public by making modern and adequate  
18 telecommunications services available at  
19 reasonable prices. Collocation and  
20 interconnection are two essential elements  
21 of full and effective competition in local  
22 telecommunications markets and they will  
23 bring the benefits to the public which I  
24 discussed above.

25  
26 Other sections of Chapter 364 similarly

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point to interconnection as a vehicle for promoting effective competition. In the Alternative Access Vendor Docket No. 890183-TL, Order No. 24877, the Commission determined that it was in the public interest and that it had statutory authority, pursuant to Section 364.337, to certificate AAVs to provide special access services. The Commission found in this Order that AAVs have benefits to offer and that by offering their services, the AAVs have spurred the LECs, themselves, to offer new services. By authorizing interconnection for AAVs and other competitors, the Commission will ensure that AAVs can offer service to many more customers who desire the diversity and other benefits that AAVs can offer.

Section 364.16 authorizes the Commission to require connections between two or more telecommunications companies where connections can reasonably be made, efficient service obtained and such connections are necessary. When read in conjunction with the other sections

1 authorizing the Commission to certify  
2 competitive providers and to promote  
3 competition in telecommunications services  
4 in order to form a modern and efficient  
5 network for all, the Commission can  
6 interpret this section to permit it to  
7 order LECs to allow competitors to  
8 interconnect with their networks so that  
9 competitors can reach all consumers.

10

11 10. Q. Does a physical collocation mandate raise -  
12 federal and/or state constitutional  
13 questions about the taking or confiscation  
14 of LEC property?

15 A. No. The key to the fairness of  
16 interconnection to all parties is that the  
17 interconnectors compensate the LECs for  
18 the use of LEC facilities. Furthermore,  
19 the Commission is ordering interconnection  
20 for the public purpose of promoting a  
21 modern, efficient telecommunications  
22 infrastructure. Therefore, a physical  
23 collocation mandate does not constitute a  
24 taking.

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26 11. Q. Should the Commission require physical

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and/or virtual collocation.

A. The Commission should require LECs to offer physical collocation. Physical collocation ensures that interconnectors are provided interconnection on the same terms and conditions as the LECs interconnect their own high capacity networks. A physical requirement would also allow for uniformity between state and federal requirements.

It is important to understand that interconnection with AAV networks via either physical or virtual collocation is essentially the same as the interconnections that take place today throughout the LEC network. The technologies, equipment, and procedures are largely alike.

Under either physical collocation or virtual collocation, a central office interconnection arrangement is composed of three essential elements: (1) interconnection cable; (2) interconnection electronics; and (3) cross-connection facility.

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The interconnection cable is an unbroken fiber optic facility which the AAV extends from its network into the LEC central office. The cable enters into and terminates inside the LEC central office, just as the LEC's own fiber optic cable is terminated at the central office.

The interconnection electronics are located within the LEC central office and are the most crucial element of the interconnection arrangement. The interconnection cable is terminated into the interconnection electronics, which are then used to derive individual circuits. This equipment may include optical line terminating multiplexers, DS3:DS1 multiplexers, DS1:DS0 multiplexers, and digital access cross-connect systems. All of this sort of equipment is today used by the LEC in its own network, and is likewise terminated into its own fiber optic facilities. The interconnection electronics are responsible for most of the customer-visible characteristics of a carrier's service: quality, reliability,

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speed, cost.

Therefore, under either physical or virtual interconnection, the interconnection equipment must be selected by the interconnector, and the equipment must be remotely monitored, configured and controlled by the interconnector. The interconnection electronics must also be installed, upgraded, maintained, and modified at the sole discretion of the interconnector, and according to its cost and service standards.

The cross-connection facility is usually a copper (electronic) cable provided by the LEC which connects the interconnection equipment to a LEC cross connection frame (or digital access cross connect system in some cases) where the interconnector's circuit is cross connected to the interconnected services: loops, a switch port, multiplexer, etc. For special access, these cables connect the AAV equipment to a channel termination (i.e., a Special Access "loop"), a channel

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mileage facility, or a multiplexer. These same interconnections take place today in the LECs' network.

From TCG's experience, the only distinction between "physical" collocation and a workable "virtual" collocation is ownership: in physical collocation the AAV owns the interconnection electronics and is able to enter the LEC central office to perform these provisioning and maintenance functions, whereas in virtual collocation the LEC leases the equipment to the AAV and performs provisioning and maintenance for the AAV under tariff while the AAV monitors and controls the equipment remotely.

The burden on a LEC between having to offer physical and virtual collocation is negligible whereas it is critical for an interconnector to have the option of choosing a physical arrangement. The ability of interconnectors to negotiate a virtual collocation arrangement is hindered when a LEC knows it has no obligation to provide physical

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collocation. As monopoly providers, LECs have an overwhelming advantage in establishing interconnection arrangements and in tariffing interconnection terms and conditions.

The availability of physical collocation thus serves as a "marketplace check" on the reasonableness of the LEC's virtual collocation proposals. With physical interconnection as the default interconnection method, LECs must provide reasonable virtual interconnection arrangements or else AAVs will elect physical interconnection. Only the availability of physical interconnection arrangements will compel the LECs to provide truly comparable virtual interconnection arrangements.

Allowing the LEC to decide whether or not to provide physical collocation robs the AAV of its only negotiation leverage, and leaves it unable to compel the LEC to provide quality, cost effective collocation arrangements. The AAV is thus

1 left subject to the quality of service  
2 that the LEC wishes to give it, with no  
3 effective alternative. Because the LEC is  
4 not only the AAV's crucial supplier, but  
5 also -- from the LEC's perspective -- its  
6 primary competitor, the AAV is left in an  
7 unenviable competitive posture. The AAV's  
8 situation is akin to that which Ford Motor  
9 Company would face if it were required to  
10 use General Motors engines in all of its  
11 cars, and could not contract with another  
12 company or build its own engines. Just as  
13 Ford would be unable to influence the  
14 quality and cost of a key element of its  
15 product, so too is the AAV left without  
16 the ability to control an essential part  
17 of its service and costs if it cannot  
18 insist on physical collocation.

19  
20 11. Q. What LECs should be required to provide  
21 expanded interconnection?

22 A. All LECs, including non-Tier I LECs (those  
23 with less than \$100 million in annual  
24 revenues from regulated service) should be  
25 included in an intrastate interconnection  
26 policy in Florida. Interconnection

1 permits the dynamic development of the  
2 telecommunications infrastructure in the  
3 most cost-effective, efficient manner.  
4 Consumers benefit from a strengthened  
5 infrastructure and an abundance of choice  
6 made possible by competition. These  
7 benefits should be available to all  
8 consumers.

9  
10 12. Q. Where should expanded interconnection be  
11 offered?

12 A. LECs should offer expanded interconnection  
13 in all central offices, state-wide.

14  
15 13. Q. Who should be allowed to interconnect?

16 A. LECs should offer expanded interconnection  
17 for special access to all parties who want  
18 to terminate their own special access  
19 transmission facilities at LEC central  
20 offices, including AAVs, IXCs and end  
21 users.

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23 14. Q. What standards should the Commission  
24 require for physical and/or virtual  
25 collocation?

26 A. TCG has pursued interconnection with LECs

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for over seven years and has found that the following standard should apply for competitive interconnection:

The interconnection arrangement must provide TCG with the same capability to connect its high capacity fiber optic network to the LEC's central office facilities and the LEC's ubiquitous low capacity loop network in a manner which is technically, operationally and economically comparable to the way that the LEC connects its own high capacity facilities to the LEC central office facilities and loop network.

Basically, a competitor must be able to use its own equipment and facilities for the central office interconnection to the greatest extent possible and rely on its dominant competitor to the least extent possible. In addition, competitors must be able to select the interconnection electronics at the central office and be able to remotely monitor and control the equipment.

TCG's interconnection standard is as equally applicable to virtual collocation

1 as it is to physical collocation. Virtual  
2 arrangements are acceptable if the  
3 characteristics of the non-located  
4 interconnection are virtually the same as  
5 the characteristics of collocated  
6 interconnection. This is where Florida  
7 must improve on the FCC's policies if it  
8 authorizes virtual collocation.

9  
10 The FCC's standard for virtual collocation  
11 is inadequate because it allows the LECs  
12 to install, repair and maintain equipment  
13 to meet the LEC's standards rather than  
14 the interconnector's standards. This  
15 allows the LEC to control the essential  
16 character of an AAV's services. Unless  
17 the Commission allows the AAV to define  
18 the service standards for virtual  
19 collocation, it will not facilitate true  
20 competition. TCG suggests the standard  
21 New York implemented for virtual  
22 collocation which is that it must be  
23 "technically and economically comparable  
24 to actual collocation."  
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1 space will become less of a concern in the  
2 future as transmission equipment becomes  
3 smaller and available CO space increases.  
4 It is also appropriate for carriers to  
5 consider interconnection demand for  
6 central office space when remodeling or  
7 building new central offices just as they  
8 would consider future demand for other  
9 services.

10  
11 It is also important that the Commission  
12 require LECs to offer virtual collocation  
13 if physical collocation space becomes  
14 filled to capacity. They should not be  
15 permitted to turn away potential  
16 interconnectors for this reason.

- 17  
18 17. Q. If the Commission permits expanded  
19 interconnection, should it grant pricing  
20 flexibility to the LECs for special access  
21 and private line services?  
22 A. No. If competitors cannot compete for the  
23 local transport portion of switched access  
24 services, and consumers do not have  
25 effective freedom of choice, pricing  
26 flexibility for local exchange carriers is

1 inappropriate and disproportionate to the  
2 level of actual competition that will  
3 develop as a result of ICI's petition.  
4

5 The Commission must be careful not to  
6 confuse the presence of a competitor with  
7 a competitive market. AT&T recently  
8 stated that 99.866% of their access  
9 services are handled by local exchange  
10 carriers.<sup>4</sup> Clearly there is no competition  
11 for access services, even though there may  
12 be the presence of a competitor.  
13

14 Local exchange carriers do not require any  
15 pricing flexibility to compete with  
16 interconnectors when those interconnectors  
17 are unable to address 75% of the total  
18 access needs of consumers and consumers  
19 are penalized for exercising their freedom  
20 of choice in those situations where they  
21 desire to take service from a competitor.  
22

23 So long as interconnectors are handicapped  
24 with line-of-business restrictions and

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25 <sup>4</sup>See, Communications Daily, March 25, 1993 at 1.

1 consumers are denied freedom of choice,  
2 local exchange carriers should not be  
3 permitted to "lock up" the existing  
4 special access and local transport market  
5 by lowering their prices for long-term  
6 contracts which consumers are unable to  
7 escape.

8  
9 18. Q. What collocation rates, terms and  
10 conditions should be tariffed by the LECs?

11 A. To promote uniformity and facilitate  
12 effective interconnections, LECs should  
13 tariff the following non-recurring rate  
14 elements: cage construction, power cabling  
15 and racking and the cable pull.  
16 Interconnectors should have the option to  
17 complete these tasks themselves.

18  
19 LECs should tariff the following recurring  
20 rate elements: cable space, cross-connect,  
21 floor space and electric power.

22  
23 It is critical that the Commission ensure  
24 that LECs indicate in their tariffs that  
25 they will abide by the following terms and  
26 conditions. Rearrangement charges are

1 those applied to a customer to reconfigure  
2 special services within a central office.  
3 It is crucial that these charges be non-  
4 discriminatory such that there is no  
5 difference in the charges to the customer  
6 whether the circuits remain as the LEC's  
7 circuits or are transferred from a LEC to  
8 an interconnector or from an  
9 interconnector to a LEC. Interconnectors  
10 must be given channel assignment control  
11 which refers to the determination of the  
12 assignment of individual channels on a  
13 customer circuit. An interconnector must  
14 have control over the assignments so they  
15 can be made quickly.

16  
17 Many customers of interconnectors insist  
18 that they be allowed to order and bill for  
19 end user circuits under a letter of agency  
20 authorization. Interconnectors must be  
21 permitted to use letters of agency.  
22 Escort and eviction terms must be limited  
23 to prevent LECs from using these  
24 mechanisms as a way to invalidate the  
25 usefulness of a central office  
26 interconnection arrangement. LECs should

1                   only force an interconnector to relocate  
2                   within a central office under extreme  
3                   circumstances and must give reasonable  
4                   notice to the interconnector.

5  
6                   Reasonable installation time frames should  
7                   be tarified. Government compliance should  
8                   be the responsibility of the LEC.

9                   Interconnectors should be allowed to  
10                  purchase their own insurance. There  
11                  should be no restrictions placed on  
12                  interconnectors by LECs regarding the  
13                  types of equipment that can be installed  
14                  as long as it can be used to terminate  
15                  basic transmission facilities. Finally,  
16                  the Commission should ensure that the  
17                  LECs' liability language for  
18                  interconnections is reasonable.

19  
20           19.           Q.   Should all special access and private line  
21                           providers be required to file tariffs?

22                   A.   No. The Commission determined in Order  
23                   No. 24877 that customers using the  
24                   services of AAVs understand that they are  
25                   dealing with a competitor to the LECs and  
26                   can choose to go back to using the LEC for

1 all their service needs if they are  
2 dissatisfied with the AAV. The Commission  
3 concluded the filing of tariffs would  
4 provide limited benefit. If the  
5 Commission does require AAVs to file  
6 tariffs, it should adopt streamlined  
7 filing procedures (e.g., rate bands and  
8 short notice periods).

9  
10 20. Q. How would ratepayers be financially  
11 affected by expanded interconnection.

12 A. Ratepayers will benefit financially from  
13 expanded interconnection. To the extent  
14 that expanded interconnection leads to  
15 increased competition for access services,  
16 ratepayers will benefit from LEC efforts  
17 to increase efficiency and lower costs.  
18 The LEC should flow through these  
19 efficiencies and cost reduction to  
20 consumers.

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22 21. Q. Should the Commission grant ICI's  
23 petition?

24 A. Yes. Based on the points I've made about  
25 the benefits of expanded interconnection,  
26 the Commission should grant ICI's petition

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to permit AAV provision of special access  
and private line services through  
collocation arrangements in local exchange  
company central offices.

22. Q. Does this conclude your testimony?

A. Yes.