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July 27, 2000

Ms. Dorothy Wideman
Executive Secretary
Michigan Public Service Commission
6545 Mercantile Way
P.O. Box 30221
Lansing, MI 48909

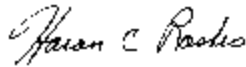
Re: MPSC Case No. U-12134

Dear Ms. Wideman:

Enclosed for filing please find the original and four copies of the direct testimony of Thomas E. Davis and accompanying exhibits filed on behalf of Fiber Link, Inc. in the above captioned proceeding. This testimony has also been filed pursuant to the Commission's Electronic Filings Program. Proof of Service upon the parties of record is also enclosed.

Very truly yours,

CLARK HILL P.L.C.



Haran C. Rashes

HCR/kag
Enclosure

cc: Parties of Record
Thomas E. Davis

STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

In the matter of the approval of a)
code of conduct for CONSUMERS)
ENERGY COMPANY and THE)
DETROIT EDISON COMPANY.)
_____)

Case No. U-12134

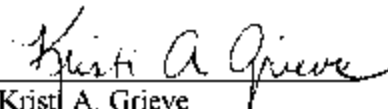
PROOF OF SERVICE

STATE OF MICHIGAN)
) SS:
COUNTY OF INGHAM)

Kristi A. Grieve, being duly sworn, deposes and says that she is an employee of Clark Hill P.L.C., and that on July 27, 2000, a copy of the direct testimony of Thomas E. Davis and accompanying exhibits was served on behalf of the Fiber Link, Inc. upon:

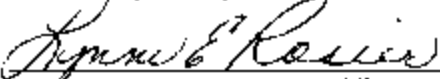
See attached service list

Except as otherwise noted on the attached list, service was accomplished by depositing same in a regular mail depository, enclosed in envelopes bearing postage fully prepaid and addressed properly and via electronic mail.



Kristi A. Grieve

Subscribed and sworn to before me
this 27th day of July, 2000.



Lynn E. Rosier, Notary Public
Ingham County, Michigan
Expiration: May 20, 2003

SERVICE LIST

CASE NO. U-12134

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STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

* * * * *

In the matter of the approval of a)
code of conduct for CONSUMERS)
ENERGY COMPANY and THE) Case No. U-12134
DETROIT EDISON COMPANY.)
_____)

DIRECT TESTIMONY OF
THOMAS E. DAVIS
ON BEHALF OF FIBER LINK, INC.

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

2 A. My name is Thomas E. Davis and my business address is 3529 W. Genesee, Lapeer, MI 48664.

3

4 **Q. By whom are you employed and in what capacity?**

5 A. I am the President and a shareholder of Fiber Link, Inc., (hereinafter "Fiber Link").

6

7 **Q. Please describe your professional background.**

8 A. My academic training is in accounting and finance with a bachelors degree from Northern Michigan
9 University. I have spent most of my career as a business owner, with the last 10 years at Fiber
10 Link.

11

12 **Q. Please describe Fiber Link**

1 A. Fiber Link was formed in 1990. Fiber Link is in the business of constructing, installing, testing and
2 maintaining fiber optic telecommunications networks throughout the State of Michigan, and in
3 several neighboring states. Fiber Link also owns and operates fiber optic networks in 5 Michigan
4 counties. Fiber Link sells and leases fiber optic filaments as well as capacity on such filaments.
5 A fiber optic telecommunications network generally consists of fiber optic cable strung between
6 utility poles and containing two or more fiber optic filaments that allow for the two-way
7 transmission of voice, video and data communications. Associated equipment, electronics and
8 facilities are also involved to carry out and regulate the transmission of the communications. Often
9 the fiber optic cable will contain several, sometimes dozens, of individual fiber optic filaments.
10 Since 1990, Fiber Link has constructed and installed over 2,900 miles of fiber optic cable in
11 various telecommunications networks across the State of Michigan.

12 After their construction and installation, fiber optic telecommunications networks require
13 very little ongoing maintenance so long as the fiber optic cable is securely attached to the utility
14 poles and that the fiber optic filaments residing in the cable sheath are transmitting the light signals
15 which carry the communications between senders and recipients. Periodically, the fiber optic cable
16 may need to be moved or re-routed to accommodate requests by local units of government, private
17 land owners and utilities. In addition, cable and associated facilities may need to be repaired,
18 replaced or re-attached as a result of storms, vehicle and farm equipment accidents, or other

1 circumstances which may have caused the cable lines to become severed or detached. Further,
2 additional installation in the form of co-lashing or over-lashing to existing fiber optic cable may be
3 done to expand the number of filaments for networks or to construct additional networks. Fiber
4 Link also performs all of the above-described tasks.

5
6 **Q. For what types of entities or organizations does Fiber Link provide these services?**

7 A. Fiber Link has constructed and installed fiber optic telecommunications networks for numerous
8 telecommunications providers, many commercial users, and dozens of school districts, colleges and
9 educational consortia throughout the State of Michigan. We have designed and constructed more
10 educational use fiber networks in Michigan, than any other vendor. For many of these
11 organizations, Fiber Link performs the general, ongoing and emergency maintenance of the system.
12 Fiber Link has also built and retains ownership in approximately 300 miles of fiber optic networks.

13
14 **Q. Where in the state has Fiber Link constructed and installed fiber optic
15 telecommunications networks?**

16 A. We have constructed networks in most Michigan Counties. We have a great deal of experience
17 in both urban and rural areas. For instance, our current construction schedule includes the
18 communities of Farmington, Farmington Hills, Bloomfield Hills, Royal Oak, Birmingham, Southfield,

1 Novi, Ann Arbor, Ypsilanti, Kalamazoo, Saginaw, Lansing, Portage, and so on. We are also
2 building countywide networks in Washtenaw, Saginaw and Macomb counties that take us into
3 every single community in the county. This is typical of our workload at any given time.
4

5 **Q. Does Fiber Link, Inc. compete with energy utilities in Michigan for the provision of the**
6 **fiber optic telecommunications services you discussed earlier?**

7 A. Yes, Fiber Link, Inc. does and/or potentially will compete with utilities and their affiliates with
8 respect to the provision of these services. Energy utilities and their affiliates are looking increasingly
9 to entering and competing in the telecommunications arena. As you are no doubt aware, the
10 telecommunications industry is growing at an accelerating rate, including satellite, wireless and land-
11 line communications. Many new companies have entered the industry, and it is my estimation that
12 this will continue. Companies which have traditionally not conducted business in the
13 telecommunications industry, such as energy utilities and energy companies, are beginning to enter
14 the market, as regulatory and economic barriers have been removed.

15 The two largest electric utilities in this state, Consumers Energy Company (“Consumers”) and
16 The Detroit Edison Company (“Edison”), have entered the telecommunications field, including
17 the business of constructing, installing and maintaining fiber optic telecommunications networks.
18 In fact, I am aware that Consumers has bid for and has provided fiber optic network construction

1 for certain school systems in Michigan. Attached, please find my Exhibit TED-1 (I-___) selected
2 pages from Consumers Energy's Web Site detailing some of their telecommunications offerings,
3 both to schools and in unregulated service fields. Also attached, please find my exhibit TED-2 (I-
4 ___), which consists of a copy of a Consumers brochure distributed to Michigan schools regarding
5 Consumers' fiber optic construction program for schools. Edison or an affiliate of Edison has also
6 endeavored to provide these services to certain school systems and leases fiber optic cable to
7 telecommunications providers. As early as 1994 Edison demonstrated an intent to provide
8 construction, material and installation of fiber systems as evidenced by my exhibit TED-3 (I-___),
9 which consists of a February 23, 1994 letter from Gary Mittleman, Edison's Assistant Vice
10 President and Manager - Business Development to John A. Abramson, then Director of the
11 Commission's Electric Division.

12
13 **Q. Are you saying that electric utilities or their affiliates should not be able to provide these**
14 **services in competition with companies like Fiber Link?**

15 A. Not at all. Fiber Link welcomes the competition. However, the electric utilities and their affiliates
16 should compete fairly and appropriate guidelines or a code of conduct need to be in place to help
17 ensure that they do so.

18

1 **Q. Please explain.**

2 A. Because of their status as regulated monopolies, electric utilities have been able to construct an
3 extensive, monopoly network of utility poles or conduit throughout the State of Michigan. They
4 have also been able to employ and train substantial numbers of personnel to be skilled in the
5 installation and maintenance of the wires and facilities interconnecting these poles. The utilities have
6 been able to pass on the costs associated with building this network and employing and training
7 these personnel, as well as receive a return on their investments, to their utility customers through
8 regulated rates. Through decades of regulatory protection and basically guaranteed cost recovery
9 through utility rates, these utilities have amassed a considerable amount of economic power,
10 expertise and --for all intents and purposes-- a monopoly on the statewide network of utility
11 distribution poles, which is the essential infrastructure upon which fiber optic cable
12 telecommunications networks are installed. Without appropriate protections and guidelines in
13 place, utilities could leverage these considerable monopoly assets and thus unfairly compete with
14 non-affiliate telecommunications providers, such as Fiber Link, Inc. Consequently, it is essential
15 that the Commission establish a clear and enforceable code of conduct to protect against cross-
16 subsidization by utility ratepayers of unregulated non-utility and affiliate ventures.

1 **Q. Do you believe that codes of conduct proposed by Edison (Exhibit DECo-10) and**
2 **Consumers (Exhibit CEC0-1), in this proceeding, are adequate to protect against cross-**
3 **subsidization, information sharing, preferential treatment between a utility’s regulated**
4 **and unregulated services?**

5 A. No. The codes of conduct proposed by utilities specifically are limited to the utilities and their
6 affiliates participating in the retail electric open access service programs. Edison and Consumers’
7 codes of conduct do not address areas outside the electric industry. In addition, these codes of
8 conduct do not address such areas as misrepresentation to customers of the regulated nature of the
9 utility versus the unregulated nature many offered services, the need for the utility to be treated as
10 a telecommunications provider when providing telecommunications services, or the separation of
11 employees doing work in both regulated and unregulated areas.

12
13 **Q. Do you believe that code of conduct proposed by Staff (Exhibit S-16), in this proceeding,**
14 **is adequate to protect against cross-subsidization, information sharing, preferential**
15 **treatment between a utility’s regulated and unregulated services?**

16 A. While Staff’s Code is a step in the right direction, there are certain areas that I feel it should be
17 supplemented to ensure that cross-subsidization, information sharing, preferential treatment

1 between a utility's regulated and unregulated services do not take place, especially in the
2 telecommunications area.

3
4 **Q. Do you have any examples of situations where cross-subsidization by electric utilities in**
5 **the telecommunications could occur?**

6 A. Yes. A utility could utilize its employees and the expertise of its management, which are being paid
7 for by utility customers through utility rates, and divert and devote those employees and that
8 expertise to non-utility activities, such as telecommunications. Employees and personnel who have
9 traditionally worked on maintenance of the utility lines and utility poles for purposes of providing
10 electric utility service could be devoting part or full-time to providing installation and/or
11 maintenance services directly to telecommunications end-users or providers or to the utility's
12 affiliates. An article published at page 13 in the February 15, 1999 edition of *Crain's Detroit*
13 *Business* (Exhibit TED-4 (I-___)), the web pages I previously mentioned (Exhibit TED-1 (I-___)),
14 and the brochure Consumers distributes to schools (Exhibit TED-2 (I-___)) suggest that Consumers
15 has been running a program which provides fiber optic installation services for schools and libraries
16 for use in local and wide area networks. This goes to the very heart of my business. I think it is
17 imperative that the Commission have the ongoing ability to identify the use of utility assets and
18 personnel for non-utility purposes, the extent of the use, and the allocation of time, costs and

1 overhead for such non-utility uses and to take appropriate actions, be they ratemaking or
2 otherwise, to prevent, to stop, to rectify and to penalize such cross-subsidies.

3 Another concern is the utilities' use and leveraging of their monopoly control over the
4 distribution utility pole infrastructure to impede or to increase the costs of pole attachments for non-
5 affiliated telecommunications providers. In the Commission Case No. U-10831, the Commission
6 established a uniform statewide rate of \$3.74 per pole which attaching parties are to pay to utilities
7 in order to compensate them for leasing space on and using their utility poles. However, utilities
8 are attempting to impose additional costs on telecommunications providers in order to access and
9 attach to the utilities' poles. Utilities are attempting to charge telecommunications providers very
10 high "administrative" fees and outrageously expensive make ready assessment fees in order for
11 those telecommunications providers to attach to their utility poles. The level of these fees is
12 dubiously related to the utilities' actual costs and appears more to be an attempt to put up an
13 economic barrier to non-affiliated telecommunications providers' access to their monopoly utility
14 pole infrastructure. I am also aware of circumstances where utility personnel (bearing the insignia
15 or logo of the electric utility) represented to potential end-users that quicker processing of make
16 ready assessments and work and pole attachment agreements could be done if the installation of
17 the fiber optic cable connections were to be done by the utility or its affiliate. As a result of these
18 types of activities, Fiber Link, Inc. has experienced extraordinary delays in commencing and

1 completing construction of fiber optic networks. This presents another anti-competitive barrier for
2 non-affiliated telecommunications providers. These circumstances are not adequately addressed
3 by the proposed codes of conduct.

4 Another concern is the misrepresentation by the utilities that they do not need various
5 permits for installation of fiber optics for telecommunications. Consumers makes this claim on their
6 brochure (Exhibit TED-2 (I-___)), where they state “and because we install cable every day, we
7 already have the required construction licenses and permits -- helping you to avoid big delays in
8 getting the job done.” If Consumers, any other utility, or their affiliates are providing “unregulated
9 services offered to customers for the transmission of 2-way interactive communication and
10 associated usage,” then they should be considered a telecommunications provider under Section
11 102 of the Michigan Telecommunications Act (“MTA”), MCL 484.2102, and required to obtain
12 municipal permits under Sections 251 through 254 of the MTA, MCL 484.2251 - 484.2254, as
13 is Fiber Link. If the utilities are asserting that their electric franchises exempt them from these
14 telecommunications requirements, then they have a clear competitive advantage as they enter the
15 telecommunications industry. For example, a new Michigan Department of Transportation policy
16 requires telecommunications providers to be an interexchange carrier registered with the
17 Commission or a licensed competitive local exchange carrier to access MDOT’s rights-of-way.
18 Under this policy, Edison and Consumers would be unable to qualify if they were offering

1 telecommunications services openly. By gaining access to rights-of-ways surreptitiously it enables
2 the utilities to unfairly to compete against people like Fiber Link, who couldn't do it that way and
3 wouldn't be able to get access to poles or rights of way. or The competitive advantage that the
4 utilities have if they do not need to obtain telecommunications permits for use of rights-of-ways is
5 illustrated by various complaints filed with this Commission by telecommunications providers
6 against municipalities, highlighting how difficult, time consuming, and costly these permits are to
7 obtain. Recently I testified as a witness in one of these cases, MPSC Case No. U-12354.

8 Another concern is the buying power of the utility by virtue of its size, customer base and
9 territory. The utility can use its buying power and size to purchase assets and inventory in
10 substantial bulk and thus achieve much greater cost economies than that which a smaller, separate
11 affiliate could achieve. Fiber Link Inc.'s particular concern is the potential that the utility could use
12 these purchasing economies to provide its affiliates with the advantage of this buying power.
13 Depending upon the specific asset item or how the utility invoices or records such items, huge
14 amounts of assets or inventories could be transferred to affiliates without the transfer being reported
15 to the Commission under the Guidelines for Affiliate Transactions, adopted by the Commission in
16 Case No. U-11916. This would put competitors at a significant competitive disadvantage.

17 What these situations clearly indicate is the inherent incentive on the part of the monopoly
18 utilities to leverage the control over their monopoly assets, regulatory status and their substantial

1 buying power in order for them or their affiliates to gain an unfair competitive advantage over their
2 competitors or potential competitors with respect to the provision of telecommunications services.
3 This inherent potential for abuse would appear to only get worse as these utilities and/or their
4 affiliates enter into and increase their efforts and presence in the telecommunications industry. I
5 believe it is critical that the Commission establish a very clear code of conduct for the utilities and
6 their affiliates to follow so as to monitor and address these potential abuses.

7 **Q. Do you have any recommendations as to any additions to a code of conduct which the**
8 **Commission could establish to address these concerns?**

9 A. Yes. I believe the following guidelines or requirements would help to protect against these abuses:

10 a. To the greatest extent possible, there should be a functional and legal separation
11 of regulated utility and non-regulated business functions. This would include the
12 prohibition of the sharing of employees and equipment between the utility and its
13 affiliates providing non-utility services. This would help to ameliorate or minimize
14 the leveraging power the utility or its affiliates could use in competing in the
15 telecommunications industry. At the very least, there should be a requirement that
16 all employees of the utility document (on time sheets, work orders, etc.) their time
17 spent on non-utility activities, that the utility document the nature and hours of use
18 of utility equipment for non-utility purposes and that the utility submit this

1 information to the Commission on a more frequent basis than annually. In addition,
2 the utility should be required to report to the Commission situations where it has
3 transferred utility personnel to affiliates on a more frequent basis than annually.
4 The Commission Staff should be required to conduct regular periodic audits of the
5 utilities to ensure that the utilities are appropriately and adequately documenting the
6 use of employees and equipment for non-utility purposes and that cross-
7 subsidization is not occurring.

- 8 b. Utilities should also be prohibited from providing preferences to affiliated companies or
9 customers of affiliated companies, and should be prohibited from representing or implying
10 that preferences may be had by utilizing the services of affiliated companies.
- 11 c. Utilities should be prohibited from allowing affiliates to use the utility's name, logo,
12 trademark or any other indicia. Utilities should also be prohibited from steering business
13 to or in any way endorsing affiliated providers.
- 14 d. When operating in another regulated industry, such as telecommunications, utilities should
15 be explicitly subject to all regulations imposed on any other competitor in that industry.
- 16 e. The code of conduct affiliate guidelines should be extended to utilities other than
17 Consumers, and Edison, who are also in the position of being able to exercise their

1 monopoly power and leverage to engage in cross-subsidization and to unfairly compete
2 against non-affiliate telecommunications providers.

3 These are some suggested guidelines or requirements which I believe would help to address and
4 hopefully prevent or alleviate some of the potential abuses by utilities and its affiliates in non-utility
5 activities. I have attempted to identify code of conduct requirements which would help to address
6 the particular abuses or problems of which I am aware. There may be other or similar potential
7 abuses or transactions occurring which would warrant additional guidelines and protections.

8
9 **Q. Does this complete your testimony at this time?**

10 **A. Yes.**



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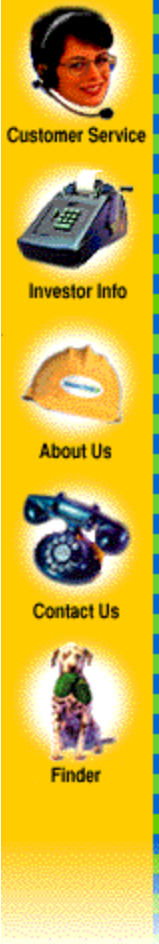
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Tower Co-Location Program



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 - Construction drawing and design review
- Real Estate Clearing
- Intermodulation Study Review
 - Operations Coordination
 - System protection
 - Power control
 - Site Plan Development/Approval
 - Overhead/Underground System Construction and Installation

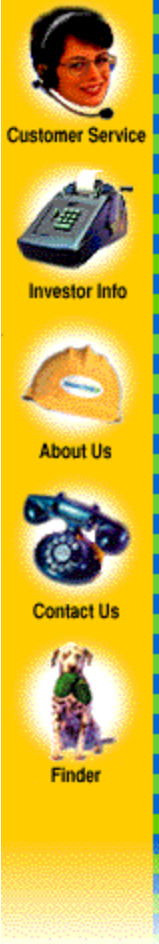
- Natural gas facilities
- Rights-of-way
- Raw land
- Pricing Options
- Fast and Thorough Cost Estimates
- Highly Coordinated Process
- Streamlined process
- Client facilitator
- Engineering
- Engineering/structural analysis review
- Procure construction workforce
- Train construction workforce
- Handle construction cost/billing activities
- Facilitate Energy Delivery
- Commodity delivery/design
- Meter installation
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- System Maintenance
- Asset Protection and Security

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Get complete project management for engineering, design and construction of substations, transmission lines and distribution systems. Save time and valuable resources when you take advantage of more than 100 years experience in the Michigan utility business. Equipment and material sales also available.

Capabilities

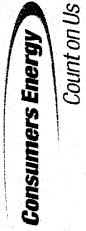
- Substation engineering, design and construction
- Transmission line engineering, design, surveying and construction
- Distribution line engineering, design and construction
- Equipment and material acquisition

Contact our company representative at 517-791-5621

FOR MORE INFORMATION

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Contact us at: services@consumersenergy.com



**The Power of
Communication**
Connecting Schools with
Fiber Optics



Call Us Today

You've always known Consumers Energy as a reliable, low-cost provider of gas and electricity in Michigan. But we're so much more.

Now we can help you get wired cost-effectively into the information age.

For the details on fiber-optic cable installation, call Steve Schouten of Consumers Energy at 517-788-5865 or E-mail: seschouten@cmsenergy.com.



212 West Michigan Avenue
Jackson, MI 49201-2277

Visit us on the Internet: www.consumersenergy.com

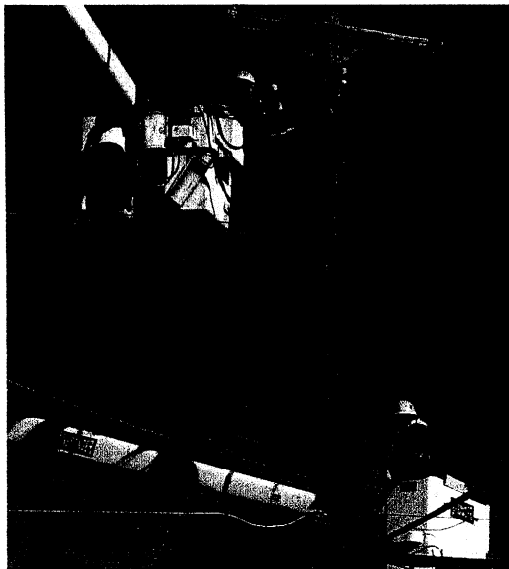
A Prime Opportunity

In a world where information moves ever faster, the staff and students in your school district can no longer afford to be separated by solid walls.

Communication today depends on the swift, direct and targeted exchange of information, yet upgrading technology doesn't have to bust your district's budget.

With the help of state and federal funds and Consumers Energy's cable-installation capability, your district now has the opportunity to finance and install state-of-the-art fiber-optic cable.

The spun-glass strands of fiber-optic cable can do the job of hundreds of copper wires, allowing the speedy transfer of huge amounts of data over much longer distances.



Increasing Revenue — and Learning

There are three good reasons your district should consider having Consumers Energy install fiber-optic cable: your staff, your students and your budget.

Your district competes with Michigan's more than 500 school districts, along with private and charter schools for students and funding.

Your students need to tap into encyclopedias, databases and Internet web sites to research facts and write papers — without costly, duplicate phone systems, CD-ROMs and software. Fiber-optic cable will allow your district to increase learning and save money by sharing single resources over a network.

Finally, you can have Consumers Energy install fiber-optic cable without your district **having** to bust its budget.



*The Right 'Company for the **Right** Job*

Consumers Energy has more than a century of experience in installing and maintaining overhead and underground cable, so networking your district with fiber optics is second nature to us.

By choosing us, you also avoid the high design fees some providers add. Some school districts have already paid thousands of dollars to engineering firms to design routes for fiber-optic cable. We'll do all that at little or no cost.

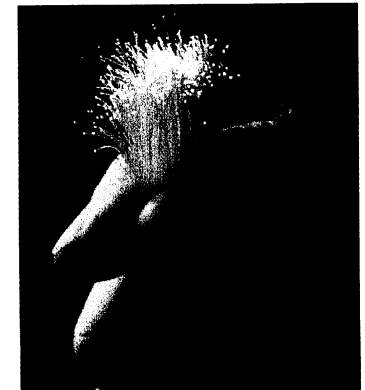
Our Advantages

When you choose Consumers Energy, you select a company several steps ahead of the competition.

We have equipment and resources in place statewide

to serve you. And because we install cable every day, we already have the required construction licenses and permits — helping you to avoid big delays in getting the job done.

And, if there's ever a problem involving overhead or underground lines, we're on the scene. Emergency personnel always call us first — before phone or cable companies.





2000 Second Avenue
Detroit, Michigan 48226
(313) 237-2234

February 23, 1994

Mr. John A. Abramson
Director, Electric Division
Michigan Public Service Commission
6545 Mercantile Way
P.O. Box 30221
Lansing, Michigan 48909

Dear Mr. Abramson:

I appreciated the time you were able to set aside for Joe Welch and I to speak with you about Detroit Edison's fiber optic efforts. We believe that this new technology of communication will form the "information superhighway" of the future, and Detroit Edison would like to be part of it.

At this time, our aim is not to become a telecommunication service provider, rather, we plan on:

1. leasing fiber to service providers
2. using fiber for company communications -- both internal and external.

We believe this plan can be achieved in a low risk manner with the benefits being retained by the customers. Our lease agreements (at least as we see them now) are likely to reflect the following pattern:

- Service provider pays (or reimburses Edison) for most or all of the design, construction, material and installation of a fiber system.
- Detroit Edison owns the fiber system.
- Detroit Edison leases most of the fiber to the service provider at reasonable rates for a 10 to 50 year term. Expected fiber life is 60 years plus.
- Detroit Edison retains some strands of fiber for its own use.
- Edison may also receive a one-time cash payment if right-of-way is particularly valuable.

- Note that Edison is not leasing out conduit or pole space at tariffed rates as part of this program; rather, we are leasing out fiber for a different set of benefits. The tariffed rates are, however, still available for anyone who desires them.

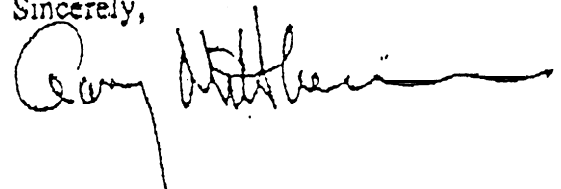
Detroit Edison will lower costs and improve services with fiber reserved for our own uses.

- Intra company calls can go over this fiber, thereby making our own communication expenses more cost effective.
- Further, the fiber system can provide links directly to long distance carrier switches (MCI, AT&T, Sprint, etc.), saving more money.
- The fiber system provides high speed data transmission among our facilities and with customers. This includes DAS (distribution automation system) and demand side management services significantly beyond what's available today.
- Edison will eventually be able to develop communication links with the customer's home for: meter reading, service turn-ons and turn-offs, bill payment and sophisticated energy management services.
- This fiber system may also form the basis of many new -- or yet to come -- services such as metering and communication with electric vehicle charging stations.

Edison's participation in this program enables communication service providers to quickly and efficiently update their networks so that they may provide the most competitive and up-to-date services to residents of the greater Detroit area. The program also utilizes our customers' rate based assets more effectively, which lowers costs, improves services and makes Detroit Edison more competitive. We anticipate that all of the benefits leading to lower costs will be included in our regulated earnings statements.

We are clearly excited about these new opportunities and look forward to keeping you informed as we proceed.

Sincerely,



cc: L.G. Garberding
J.L. Welch
bcc: S. Carpman
M. Davis
A. Dickinson

Consumers Energy builds telecom biz

BY AMY MINDELL

Special to CRAIN'S DETROIT BUSINESS

Although it has no plans to offer local phone service, Consumers Energy Co., like a lot of utilities around the country, has moved cautiously toward the telecommunications arena.

For the past year, the Jackson-based company has been leasing space on its electric transmission and radio towers to local cellular telephone companies. More recently, it started a program to sell fiber-optic expertise and infrastructure to schools and communities.

"We're not into telecommunications itself," said Jack Decker, project manager-business development at Consumers Energy, the principal subsidiary of CMS Energy Corp. (NYSE: CMS). "We're trying to leverage our assets as much as we can without affecting the basic integrity of our systems or disrupting our core service."

To date, 60 Consumers towers house antennas, Decker said. Consumers earns \$500 to \$2,000 a month on each rental, depending on the tower's location and the area's population density. The utility has about 6,000 towers throughout its Lower Peninsula service territory.

Since last fall, Consumers also has been running a program offering fiber-optic installation services for nonprofit organizations such as school districts and libraries. Schools use the fiber-optic cables to run local and wide area networks and for distance learning programs.

Although any organization has the legal right to attach to a utility pole, most nonprofits bid out the job of installing and maintaining network infrastructure.

Consumers charges a monthly pole space rental fee, usually less than \$10 a month for each pole; a make-ready fee that can cost up to several hundred dollars a pole; and an installation fee. Installation runs between \$50,000 and \$500,000 for a typical school district, depending on the type and size of the cables. **CDS**