



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

10 Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

June 4, 1997

Larry Woods
Site Development Manager
Sprint PCS
9 Barnes Industrial Road
Wallingford, CT 06492

Re: Sprint PCS notice of intent to modify an existing telecommunications facility located on Peak Mountain between North Main Street and New Gate Road in East Granby, Connecticut.

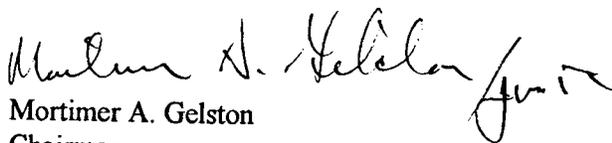
Dear Mr. Woods:

At a public meeting held on June 3, 1997, the Connecticut Siting Council (Council) acknowledged your notice to modify an existing telecommunications facility in East Granby, Connecticut, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modification is to be implemented as specified in your notice dated May 19, 1997. The modification is in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequency electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This change has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used and proposed for use on this tower. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Science and Technology, Bulletin No. 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/RKE/ss

c: Honorable David K. Kilbon, First Selectman, Town of East Granby



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

10 Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

May 28, 1997

Honorable David K. Kilbon
First Selectman
Town of East Granby
Town Hall, 9 Center Street
P.O. Box TC
East Granby, CT 06026

RE: Sprint PCS notice of intent to modify an existing telecommunications facility located on Peak Mountain between North Main Street and New Gate Road in East Granby, Connecticut.

Dear Mr. Kilbon:

On May 19, 1997, the Connecticut Siting Council (Council) received a request from Sprint PCS to modify an existing telecommunications facility located on Peak Mountain between North Main Street and New Gate Road in East Granby, Connecticut, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting tentatively scheduled for Tuesday, June 3, 1997, at 2:15 p.m. in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this modification of an existing facility.

Thank you for your cooperation and consideration.

Very truly yours,

Joel M. Rinebold
Executive Director

JMR/ss

Enclosure: Notice of Intent



RECEIVED

MAY 20 1997

**CONNECTICUT
SITING COUNCIL**

Sprint PCS™

Engineering and Operations Telephone: 203 294 5600
9 Barnes Industrial Road Fax: 203 294 5647
Wallingford, Connecticut 06492

May 20, 1997

Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

**RE: Notice of Intent to make exempt changes to an existing tower facility -
Connecticut DOT East Granby Site**

Dear Chairman Gelston:

Enclosed please find twenty (20) copies of the application for the above site. Please place the project on the next available agenda.

Please do not hesitate to call me with any questions or comments. Thank you for your consideration in this matter.

Sincerely,

Larry Woods
Site Development Manager

Enclosure

cc: Warren Stennard, Connecticut DOT (w/enclosure)
Joel Rinebold, Connecticut Siting Council (w/enclosure)



RECEIVED

MAY 20 1997

**CONNECTICUT
SITING COUNCIL**

Sprint PCS*

Engineering and Operations Telephone: 203 294 5600
9 Barnes Industrial Road Fax: 203 294 5647
Wallingford, Connecticut 06492

May 20, 1997

Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

**RE: Notice of Intent to make exempt changes to an existing tower facility -
Connecticut DOT East Granby Site**

Dear Chairman Gelston:

Enclosed please find twenty (20) copies of the application for the above site. Please place the project on the next available agenda.

Please do not hesitate to call me with any questions or comments. Thank you for your consideration in this matter.

Sincerely,

Larry Woods
Site Development Manager

Enclosure

cc: Warren Stennard, Connecticut DOT (w/enclosure)
Joel Rinebold, Connecticut Siting Council (w/enclosure)



STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION



2800 BERLIN TURNPIKE, P.O. BOX 317546
NEWINGTON, CONNECTICUT 06131-7546
Phone: (860) 594-2529

May 13, 1997

Mr. Louis R. Ganser
Sprint PCS
Property Management Department
9 Barnes Industrial Road South
Wallingford, CT 06492

Re: Sprint PCS, Inc.
Lease Agreement
Bradley International Airport
East Granby Tower

Dear Mr. Ganser:

This letter is intended to acknowledge and confirm that the Department's Bureau of Aviation and Ports is presently negotiating with Sprint PCS, Inc. for Sprint's lease, use and occupation of a small parcel of land for support equipment and the attachment to and use of a portion of an existing obstruction lighting monopole for a "cellular type" PCS antenna array. It is the intention of the parties to the proposed Lease Agreement to conclude negotiations and to execute and have approved a final agreement, as soon as possible.

In addition to the above, the State hereby acknowledges that Sprint PCS, Inc., as a proposed operator, intends to file a "Notice Of Intent To Make Exempt Changes To An Existing Tower Facility" with the Connecticut Siting Council, pursuant to sections 16-50j-72(b) and 16-50j-73, Reg. of Conn. State Agencies. Subject to the execution and approval of the above referenced Lease Agreement, the State hereby consents as property owner to the intended filing with the Connecticut Siting Council and has no objection thereto.

Very truly yours,

Robert F. Juliano
Bureau Chief
Bureau of Aviation and Ports

AKS/kab

cc: Kenneth J. Robert
Edwin J. Fijol
Richard C. Rooney - Jeff Stewart
Arnold K. Shimelman, AAG

RECEIVED BY L. GANSER

MAY 16 1997

REFERRED TO XC: S. Kotfila
ANSWERED (FILE)

orig. S. Chasse
L. Woods
S. Parsier



RECEIVED

MAY 19 1997

**CONNECTICUT
SITING COUNCIL**

Sprint PCS™

Engineering and Operations Telephone: 203 294 5600
9 Barnes Industrial Road Fax: 203 294 5647
Wallingford, Connecticut 06492

May 19, 1997

Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

**RE: Notice of intent to make exempt changes to an existing tower facility -
DOT - East Granby Site**

Dear Chairman Gelston:

Enclosed is a notice of intent to modify and make exempt changes to the tower and associated equipment for facilities owned and operated by the State of Connecticut Department of Transportation (DOT), at Peak Mountain between North Main Street and New Gate Road in East Granby, Connecticut.

The proposed modifications can be generally described as the addition of a "cellular type" PCS antenna array by Sprint Spectrum, L.P. (Sprint PCS) to the existing tower and related support equipment within the existing tower yard at the base of the tower.

Sprint PCS is the "B block" "Wideband PCS" license holder for the 2 GHz PCS frequencies for the greater New York City coverage area which includes the entire state of Connecticut. The Sprint PCS wireless service is a voice-data system which will be capable of providing to the consumer state of the art communications service with privacy to users, and the convenience of a pager, answering machine and modem in one phone.

Sprint PCS proposes to install nine (9) Allgon 7184.05 tower mounted antennas, each measuring approximately 51.2" x 5.5" x 2.6", mounted in three sectorized arrays of three (3) antennas each, and a GPS antenna Andrew Kit #407517689.

The attached pages detail the required information for this location. As shown in the attachments, the proposed addition meets all the necessary criteria for exempt changes established in the Regulations of Connecticut State Agencies §16-50j-72 (b) (2), for the following listed reasons. The proposed antennas will not increase the power density of the tower installation above the ANSI standards at the site boundary. The proposed antennas will be mounted below the top of the existing tower. The height of the tower will not be increased. The boundaries of the tower site will not be extended. Finally, the proposed changes will not require the addition of guy wires to the tower; therefore, noise levels at the site boundary will not be increased by six (6) decibels or more.

We have attached a copy of the U.S. Geological Survey map indicating the site location ("Exhibit A"), a site plan and an elevation sketch of the tower showing the proposed antenna locations ("Exhibit B"), and a structural evaluation ("Exhibit C").

Please record me as the contact for the DOT in this matter and in all correspondence from the Council. Counsel for Sprint PCS is Elias A. Alexiandes, of Hurwitz & Sagarin P.C., 147 North Broad Street, P.O. Box 112, Milford, CT 06460 (203) 877-8000; they request that they receive copies of all notices and correspondence. Technical questions to Sprint PCS may be directed to me at 9 Barnes Industrial Road, Wallingford, CT 06492, (203) 294-5634.

Thank you in advance for your cooperation.

Sincerely,

A handwritten signature in cursive script that reads "Larry Woods".

Larry Woods
Site Development Manager

cc: Warren Stennard, Connecticut DOT
Elias A. Alexiandes, Hurwitz & Sagarin P.C.
David Kilbon, First Selectman
Joel Rinebold, Connecticut Siting Council

Notice of Intent to Make Exempt Changes

RE: DOT, East Granby Site

Pursuant to Section 16-50j-72 (b) (2), as amended, of the Regulations of Connecticut State Agencies, the Department of Transportation (DOT) hereby notifies the Connecticut Siting Council that it intends to make changes to an existing communications facility by adding PCS antennas specified below to an existing tower. These antennas will be owned, operated and maintained by Sprint Spectrum, L.P. (Sprint PCS). Associated equipment will be located at the base of the tower within enclosed cabinetry. The site is located at Peak Mountain between North Main Street and New Gate Road in East Granby, Connecticut.

Background

The proposed changes are at the site of a 75' monopole on an eight (8) foot high foundation owned and operated by the DOT. The tower currently houses a Yagi antenna that serves various airport uses. The overall height of the structure, including all accessories, is approximately 87.8' above ground level.

Discussion

Sprint PCS proposes to install nine (9) Allgon 7184.05 tower mounted antennas, each measuring approximately 51.2" x 5.5" x 2.6". Antennas will be mounted in three sectorized arrays of three (3) antennas each, separated by 120°. Antenna center lines will be mounted at 73' on the monopole, or 81' above ground level. In addition a GPS antenna, Andrew Kit # 407517689 will be installed at a height of 42' on the monopole, or 50' above ground level.

The public need for "Wideband PCS" facilities has been determined by the Federal Communications Commission (FCC) which has determined that this service shall be provided by up to six competing companies with overlapping coverage areas. Sprint PCS proposes to mount antennae at 81' AGL, on the existing DOT tower at Peak Mountain between North Main Street and New Gate Road . This location will be used to provide coverage to the surrounding areas of East Granby. Coverage will include five (5) miles of Rt. 20, three (3) miles of Rt. 187, three (3) miles of Rt. 168, four (4) miles of Rt. 10, and four and one half (4.5) miles of Rt. 189. The proposed antenna installation would become a part of Sprint PCS's wireless voice and data network which is currently nonexistent.

The proposed changes meet all the necessary criteria for exceptions under Section 16-50j-72(b)(2) of the regulations of Connection State Agencies and therefore do not constitute a "modification":

1. The changes do not increase the tower height. All new antennas will be mounted below the top of the existing tower. See elevation attached hereto as Exhibit B.

2. The changes do not extend the boundaries of the tower site. All additional equipment will be located within existing boundaries of the tower site as reflected in the site plan attached hereto as Exhibit B.
3. As seen in Exhibit C, the tower is structurally sufficient to support the existing and proposed antennas. Therefore, guy wires will not be added to the tower, and noise levels at the tower site boundary will not increase by six decibels or more.
4. The operation of the additional antennas will not increase the total radio frequency electromagnetic power density at the tower site to a level at or above applicable standards, as demonstrated on the power density chart below:

Power Density Analysis

| Operating Frequency | Number of Trans. | ERP Per Trans. | Total Effective Radiated Power | Distance to Target | Calculated Power Density | Maximum Permissible Exposure* | Fraction of MPE |
|---------------------|------------------|----------------|--------------------------------|--------------------|--------------------------|-------------------------------|-----------------|
| (MHZ) | | (watts) | (watts) | (feet) | (mW/cm ²) | (mW/cm ²) | (%) |
| 453.9125 | 1 | 2 | 2 | 83 | 0.0001 | 0.3026 | 0.03% |

Total Percentage of Maximum Permissible Exposure Before Sprint **0.03%**

Sprint's Contribution:

| | | | | | | | |
|--------|----|-----|------|----|--------|-------|-------|
| 1957.5 | 11 | 122 | 1342 | 81 | 0.0736 | 1.305 | 5.64% |
|--------|----|-----|------|----|--------|-------|-------|

Total Percentage of Maximum Permissible Exposure After Sprint **5.67%**

* IEEE C95.1 - 1991 (Revision of ANSI C95.1-1982)

These levels have been calculated at the tower base, which represents the maximum exposure for the operation of this facility (i.e. calculated at the closest publicly accessible point within the broadcast field of the facility). The calculations have been performed in accordance with the methodology prescribed by the FCC Office of Science and Technology Bulletin No. 65 ("OST Bulletin 65").

Conclusion

The proposed additions do not constitute a “modification” of an existing facility as defined in the Connecticut General Statutes §16-50i (d). The height of the existing tower will not be increased, nor will the boundaries of the tower site be extended. Additionally, noise levels at the site boundary will not be increased by six (6) decibels or more, and the total radio frequency electromagnetic radiation will not be increased to above the standard set forth in §22 (a)-162 of the Connecticut General Statutes. This addition will not have a substantially adverse environmental effect.

For these reasons, the State of Connecticut Department of Transportation requests that the Council acknowledge that this Notice of Modification meets the Council’s exemption criteria.

w:\sprint\conn\cspndce\twrcounc\dot\granby\granby.wpd



Sprint PCS

Engineering & Operations Telephone: 203 294 5600
9 Barnes Industrial Road Fax: 203 294 5647
Wallingford, Connecticut 06492

May 6, 1997

Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

**Re: Notice of Intent to make exempt changes to an existing tower facility - DOT East
Granby Site**

Dear Mr. Gelston:

Enclosed please find one (1) copy of a Notice of Intent to make exempt changes to an existing tower facility owned and operated by the Connecticut DOT. The subject tower is located at Peak Mountain in East Granby, CT.

Please do not hesitate to call me with any questions or comments.

Sincerely,

Larry Woods
Site Development Manager

cc: Warren Stannard, CDOT (w/o enclosure)
David Kilban, First Selectman, Town of East Granby, (w/o enclosure)
Joel Rinebold, Connecticut Siting Council (w/o enclosure)



Sprint PCS[™]

Engineering & Operations Telephone: 203 294 5600
9 Barnes Industrial Road Fax: 203 294 5647
Wallingford, Connecticut 06492

May 6, 1997

Mr. David Kilbon, First Selectman
Town of East Granby
P.O. Box 1858
East Granby, CT 06026 - 1858

Re: Notice of Intent to make exempt changes to an existing tower facility - DOT East Granby Site

Dear Mr. Kilbon:

Enclosed please find one (1) copy of a Notice of Intent to make exempt changes to an existing tower facility owned and operated by the Connecticut DOT. The subject tower is located at Peak Mountain in East Granby, CT.

Please do not hesitate to call me with any questions or comments.

Sincerely,

Larry Woods
Site Development Manager

cc: Warren Stannard, CDOT (w/o enclosure)
Mortimer Gelston, Connecticut Siting Council (w/o enclosure)
Joel Rinebold, Connecticut Siting Council (w/o enclosure)

EXHIBIT A

MAR 25 '97 03:49PM

Beaverdam Marsh

**SITE NAME: EAST GRANBY
SITE #: 072**

**PROJECT
LOCATION**



Granby Station

Granbrook Park

East Granby

TOWNE

EXHIBIT B

EXHIBIT C



**CLOUGH, HARBOUR
& ASSOCIATES LLP**
ENGINEERS, SURVEYORS, PLANNERS
& LANDSCAPE ARCHITECTS

III WINNERS CIRCLE
P.O. BOX 5269, ALBANY, NEW YORK 12205-0269
TEL: 518-453-4500 • FAX: 518-458-1735

February 26, 1997

THOMAS L. O'BRIEN, P.E.
Partner Mr. Scott Chasse
Sprint PCS
9 Barnes Industrial Road
Wallingford, CT 06492

Re: Sprint PCS: Reanalysis of the East Granby Tower
Located on North Main St. R.O.W. in East Granby, Connecticut
Sprint Site No. CT03XC072, CHA File: 5950.41.72

Dear Mr. Chasse:

As requested, Clough, Harbour & Associates LLP has performed a reanalysis of the superstructure for the above referenced tower. Our reanalysis is based on the original antenna information provided by Sprint PCS, our field inspection, the original construction drawings, and the revised data as submitted. With this information, we were able to conclude that the tower is structurally capable of supporting the existing and proposed loads.

The data presented by Sprint PCS on 12/16/96 stated that an antenna array RAD center elevation of 70 feet would be used, this elevation was modified per your February 22, 1997 memo to Tim Gallager, of your office, to an elevation of 73 feet. At this revised elevation the Sprint defined PCS antenna array has been added. Our analysis assumes that at this elevation a new nine (9) panel array with nine (9) 1-5/8 inch diameter coaxial cables will be added. Our analysis also includes data for all existing antennas as indicated in the original construction drawings and as noted during our field inspection. The existing antenna projected area, elevation, coaxial cable size, and orientation have been summarized in our analysis. As you will notice and per your request, the lightning rod has been removed from the lateral loading for our reanalysis. Although not required by code, CHA typically includes the lightning rod as an appurtenance adding to the total load on the tower and a more conservative analysis.

With this information and the current code, ANSI/TIA/EIA-222-F, *Structural Standards for Steel Antenna Towers and Antenna Supporting Structures*, an analysis was performed to determine the structural integrity of the tower. Based on the data provided, section properties, member strengths, projected areas, and applicable loads were calculated. Knowing the projected area of the tower and all of its appurtenances, wind loads were calculated with and without the code defined ice load. These wind and ice loads were then reduced to member forces in the tower components. The member forces were then compared to the maximum allowable stress for each member type.

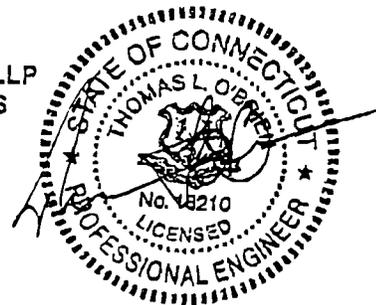
These calculations indicate that the tower, loaded as indicated above and modified as stated above, is structurally sound and capable of supporting the applied loads from the addition of a nine (9) panel array and the related mounting hardware and coaxial cable.

As requested, we have included a copy of the structural analysis calculations referenced above for your review and use. If you have any questions or if I can be of further assistance, please call me.

Very truly yours,

CLOUGH, HARBOUR & ASSOCIATES LLP
ENGINEERS, SURVEYORS, PLANNERS
& LANDSCAPE ARCHITECTS


Thomas L. O'Brien, P.E.
Partner

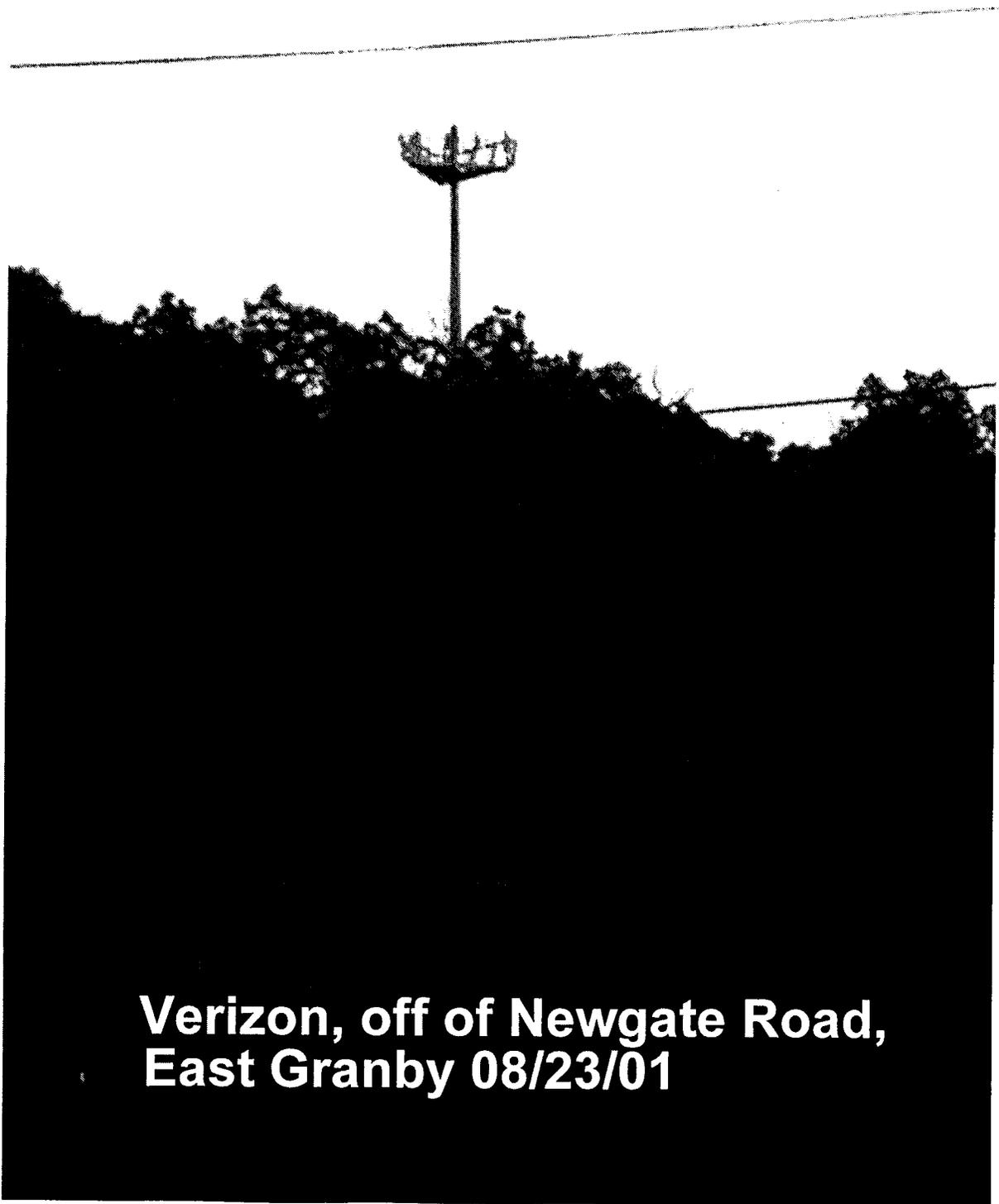


MJK/mjk
Enclosure
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Offices Throughout the Eastern United States

"Satisfying Our Clients by Meeting Their Needs Through Dedicated People Committed to Total Quality."



**Verizon, off of Newgate Road,
East Granby 08/23/01**