

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

May 21, 2003

Paul T. Tusch
Cacace Tusch & Santagata
777 Summer Street, P.O. Box 15859
Stamford, CT 06901-0859

RE: **TS-SPRINT-097-030512** - Sprint Spectrum L.P. request for an order to approve tower sharing at a proposed telecommunications facility located at 151 Berkshire Road, Newtown, Connecticut.

Dear Attorney Tusch:

At a public meeting held May 20, 2003, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures with the conditions that 1) the tower owners' plans are submitted to the Town for its review and 2) Sprint contacts the Town Building and Land Use Departments prior to and during construction to make certain code and environmental procedures, i.e., sediment and erosion control measures are followed. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated May 9, 2003.

Thank you for your attention and cooperation.

Very truly yours,

PBK/laf

Pamela B. Katz, P.E.
Chairman

PBK/laf

c: Honorable Herbert C. Rosenthal, First Selectman, Town of Newtown
Gary Frenette, Zoning Enforcement Officer, Town of Newtown
Thomas Nolan, Connecticut Architectural Towers, LLC
Christopher B. Fisher, Esq., Cuddy & Feder & Worby LLP

EDMOND TOWN HALL
45 MAIN STREET
NEWTOWN, CONNECTICUT 06470
TEL. (203) 270-4201
FAX (203) 270-4205
e-mail: newtown@snet.net
www.newtownct.org



HERBERT C. ROSENTHAL
FIRST SELECTMAN

TOWN OF NEWTOWN
OFFICE OF THE FIRST SELECTMAN

May 20, 2003

RECEIVED

MAY 20 2003

**CONNECTICUT
SITING COUNCIL**

Pamela B. Katz, Chairperson
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: TS-SPRINT – 097-030512 Request for Tower Sharing approval per C.G.S. §16-50aa
Applicant: Sprint Spectrum, L.P. co-location on Connecticut Architectural Towers, LLC
approved tower **Location:** 151 Berkshire Road, Newtown

Dear Ms. Katz:

The Town of Newtown has consistently favored tower sharing and co-location of telecommunications facilities when they have proved the need for coverage. Based on the representations in a letter to me, dated May 9, 2003, from Paul T. Tash of Cacace, Tusch, Santagata, Attorneys at Law, on behalf of this Sprint Spectrum, L.P. application, and the attached materials submitted to you as Chair of the Siting Council the same date, the Town of Newtown does not object to this application.

Our position is conditioned on the following:

1. That the tower owners, Connecticut Architectural Towers, LLC ("CAT"), f/k/a James E. Dwyer Co., Inc. will keep their agreement with the Town of Newtown to locate our emergency services (police, fire, EMS) whip antennas and equipment, including providing a generator at no cost to the Town of Newtown, for our upgrade from a low band to a high band radio communications system. This agreement was noted in the findings of Fact and the Siting Council's requirements in your Decision and Order approving Dwyer's application Docket #220 for a "spec" tower last year on June 3, 2002.
2. That they bring in their plans and letter of approval from the Siting Council to the Town of Newtown.

Pamela B. Katz, Chairperson
Connecticut Siting Council

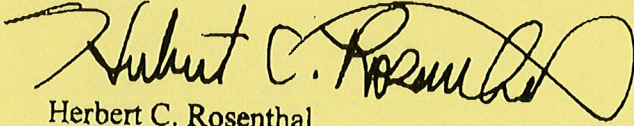
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5/20/03

3. That Sprint will contact Town Building and Land Use Departments prior to and during construction to make sure that code and environmental, i.e., sediment and erosion control measures are followed, etc.

Thank you for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Herbert C. Rosenthal". The signature is fluid and cursive, with a large loop at the end.

Herbert C. Rosenthal
First Selectman

HCR/jan

**CACACE
TUSCH
SANTAGATA**



TS-SPRINT-097-030512

Attorneys at Law

777 Summer Street
P.O. Box 15859
Stamford, Connecticut 06901-0859

(203) 327-2000
Facsimile (203) 353-3392

Greenwich Office:
124 West Putnam Avenue
Greenwich, Connecticut 06830

e.mail: PTUSCH@LAWCTS.COM

VIA OVERNIGHT DELIVERY

Mr. S. Derek Phelps
Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, Connecticut 06051

May 9, 2003

RECEIVED

MAY 12 2003

**CONNECTICUT
SITING COUNCIL**

MICHAEL J. CACACE*
MARK P. SANTAGATA
PAUL T. TUSCH
RICHARD S. FISHER
RONALD E. KOWALSKI, II
SHERWOOD R. SPELKE
JANE W. FREEMAN
JUDITH ELLENTHAL
KATHERINE T. BLAKESLEE
EDWARD F. NEMCHEK*
ALICE ANN FITZPATRICK
PATRICK L. POESCHL*
LAURA A. McGEACHY*
JOSEPH T. PUHEKKEK**
DAVID J. COVIELLO
BARBARA S. KOTEEN*
JESSICA HUHN-KENZIK

OF COUNSEL
ERIC D. GRAYSON*

LEGAL ASSISTANTS
EVA LEE CHAN
CYNTHIA L. MAMMONE
DONNA A. SIMMONS

*ALSO ADMITTED IN NEW YORK
*ALSO ADMITTED IN LOUISIANA

Re: Request by Sprint Spectrum, L.P. for an Order to Approve the Shared Use of a Tower Facility to be located at 151 Berkshire Road, Newtown, Connecticut

Dear Mr. Phelps:

Enclosed is an original and twenty (20) copies of Sprint Spectrum L.P.'s Tower Sharing Application for filing with the Siting Council pursuant to Connecticut General Statutes § 16-50aa.

Enclosed is a check in the amount of five hundred dollars (\$500.00) payable to the Siting Council for the filing fee for processing this application in accordance with Connecticut General Statutes §16-50v and §16-50v-1a of the Regulations of Connecticut State Agencies. If you have questions regarding Sprint's proposal, please do not hesitate to contact me or Attorney Laura McGeachy at the above number.

Very truly yours,

Paul T. Tusch

PTT/la
Enclosure

cc: Robert Chagnon, Sprint Spectrum L.P.

F:\docs\PNZly3425let.spr

**CACACE
TUSCH
SANTAGATA**

TS-SPRINT-097-030512

Attorneys at Law

777 Summer Street
P.O. Box 15859
Stamford, Connecticut 06901-0859

(203) 327-2000
Facsimile (203) 353-3392

Greenwich Office:
124 West Putnam Avenue
Greenwich, Connecticut 06830

e.mail: PTUSCH@LAWCTS.COM

VIA OVERNIGHT DELIVERY

Pamela B. Katz, Chairperson
Connecticut Siting Council
Ten Franklin Square
New Britain, Connecticut 06051

**Re: Request for Tower Sharing approval per C.G.S. §16-50aa
Applicant: Sprint Spectrum, L.P. co-location on
Connecticut Architectural Towers, LLC approved tower
Location: 151 Berkshire Road, Newtown**

Dear Ms. Katz:

Pursuant to Connecticut General Statutes (C.G.S.) §16-50aa, Sprint Spectrum, L.P. (Sprint) hereby requests an order from the Connecticut Siting Council (Council) to approve the proposed shared use by Sprint of an approved tower facility located at 151 Berkshire Road, Newtown, Connecticut.

Sprint proposes to install PCS antennas and related equipment at the tower facility to be owned and operated by Connecticut Architectural Towers, LLC ("CAT"), f/k/a James E. Dwyer Co., Inc. Sprint has an agreement with CAT to install its PCS facility entirely within the compound area CAT leased from the property owners, Kevin Friedman and Kathy Kelly at 151 Berkshire Road, Newtown, Connecticut. CAT's approved tower is designed to support six carriers' antennas and Sprint would be the second carrier to install a wireless facility on this tower.

Sprint respectfully requests that the Council find that the proposed shared use of the tower facility satisfies the criteria set forth in C.G.S. §16-50aa, and that it issue an order approving the proposed shared use for the reasons more fully detailed below.

May 9, 2003

RECEIVED

MAY 12 2003

**CONNECTICUT
SITING COUNCIL**

MICHAEL J. CACACE*
MARK P. SANTAGATA
PAUL T. TUSCH
RICHARD S. FISHER
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LAURA A. McGEACHY*
JOSEPH T. PUHEKKER**
DAVID J. COVIELLO
BARBARA S. KOTEN*
JESSICA HUHNS-KENZIK
OF COUNSEL
ERIC D. GRAYSON*

LEGAL ASSISTANTS
EVA LEE CHAN
CYNTHIA L. MAMMONE
DONNA A. SIMMONS

*ALSO ADMITTED IN NEW YORK
*ALSO ADMITTED IN LOUISIANA

BACKGROUND AND PUBLIC NEED:

Sprint, a telecommunications venture acquired wireless licenses from the Federal Communications Commission (FCC) in 32 major U.S. trading areas, including Connecticut, to provide PCS service technology to a population of 182.4 million people in June 1995. Since its licensing, Sprint has been actively seeking and establishing wireless telecommunications facilities throughout Connecticut. The proposed tower modification is in furtherance of establishing a thorough and efficient Sprint PCS network in Connecticut pursuant to its FCC mandate. A copy of Sprint's FCC license for the New York Market which includes Connecticut, is attached as Exhibit A.

Sprint's PCS technology, although similar to conventional, analog cellular, has far greater quality and capability. The PCS system is a digital state of the art system which combines answering machine, page, voice mail, text messaging and many other services. This system also allows for increased capacity over analog cellular, which permits it to handle more calls than cellular. Another difference between Sprint's system and traditional cellular is that PCS works on a higher frequency than cellular service and it transmits at lower power than cellular. Because of the low power of the system, a cell site is capable of transmitting to and from PCS phones only within a limited geographic area. A cell site must be located within a prescribed area in order to provide reliable coverage for the entire cell. Although the Telecommunications Act of 1996 has preempted any state or local determination of public need for PCS service, this new cell is needed to provide and/or improve PCS coverage to the Town of Newtown and specifically, Route 34 and I-84 in the Sandy Hook section of Newtown that subscribe to Sprint PCS. Without the proposed cell site, the coverage in the Town of Newtown and the surrounding areas would be insufficient to provide reliable wireless service to residents of, businesses in and visitors to Newtown. Sprint wishes to co-locate on CAT's monopole and share the use of the approved facility to avoid the unnecessary proliferation of towers in the area.

Sprint and CAT have agreed to the proposed use of this tower pursuant to mutually acceptable terms and conditions. CAT has authorized Sprint to apply for all necessary permits, approvals and authorizations which may be required for the proposed shared use of this approved tower facility. See Exhibit B.

PROJECT DESCRIPTION:

The proposed PCS facility on the CAT tower at 151 Berkshire Road, Newtown, will consist of nine (9) panel directional antennas, three (3) antennas located at three (3) different

different sectors on one triangular mounting platform with an antenna centerline of 107.5' Above Ground Level (AGL). The plans for the site are attached as Exhibit C. The proposed antennas for Sectors 1, 2 and 3 are 5' Decibel antennas with dimensions of approximately 60" high by 6" wide by 3" deep, and one GPS antenna will be mounted at approximately 75' AGL. The antenna specifications are attached at Exhibit D. The GPS antenna is necessary for the PCS facility to be timed properly.

Sprint also plans to construct a 9.5' by 18' concrete equipment pad for the placement of the associated base station equipment within its 13.5' by 21.5' lease area. The related equipment consists of four cabinets: two power cabinets and two battery backup units.

COMPLIANCE WITH C.G.S. §16-50aa:

The tower sharing statute provides that, upon written request for approval of a proposed shared use, "[i]f the council finds that the proposed use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the council shall issue an order approving such shared use", C.G.S. §16-50aa(c)(1). Sprint can demonstrate that the following requirements are feasible for an order to issue.

A. Technical Feasibility

Sprint's facility and CAT's tower at 151 Berkshire Road are designed to withstand any major storm or natural disaster. This PCS facility is designed to meet and exceed the current 85 mph with a one-half (½) inch of radial ice recommended load standards in the State of Connecticut, see Exhibit D. Moreover, the tower is structurally sound to support the addition of Sprint's proposed antennas as detailed in the structural analysis performed by Dewberry-Goodkind, Inc. which is attached as Exhibit D. Sprint operates its PCS system in accordance with FCC rules and regulations which authorizes the use of certain frequencies by wireless carriers so as not to interfere with the transmission of other radio signals. In the unlikely event that Sprint's signals interrupt or degrade radio or television service in the area, Sprint, by authority of the FCC is required to and would promptly correct any interference problem that arose. Therefore, the proposed shared use of this tower is technically feasible.

B. Legal Feasibility

The legal feasibility for approving Sprint's shared use of CAT's tower facility at 151 Berkshire Road, Newtown, is apparent. The legislature has expressed a policy that

promoting shared tower use is in the public interest to avoid the unnecessary proliferation of towers provided that all of the feasibility requirements are met, see C.G.S. §16-50aa(a) and §16-50g. The legislature has given force to that policy statement by requiring the Council to issue an order approving a shared use of a tower facility if it is technically, legally, environmentally and economically feasible and meets public safety concerns according to C.G.S. §16-50aa(c)(1).

When considering requests for shared use of tower facilities, the Council is directed to give such consideration to other state laws and municipal regulations as it deems appropriate, C.G.S. §50-x(a). The Council has the authority under §16-50p(b)(1)(A), to require telecommunications carriers that apply for a Certificate of Environmental Compatibility and Public Need to share an existing tower facility if feasible, prior to granting certification for a facility. That section further buttresses the legal feasibility for the Council to approve Sprint's tower sharing application. Fortunately, it is feasible for Sprint to co-locate its facility on CAT's approved tower which obviates the need for Sprint to construct its own tower in the vicinity of 151 Berkshire Road, Newtown. This proposed shared use is consistent with the public interest to avoid the unnecessary proliferation of towers.

C. Environmental Feasibility

Sprint's proposed use of CAT's tower would not have a substantial adverse environmental effect to the property at 151 Berkshire Road, Newtown. The proposed facility once installed, would have an insignificant visual impact to the surrounding area. An addition of a triangular platform with nine (9) antennas underneath AT&T Wireless' antenna platform and the addition of a 9.5' by 18' concrete pad for four (4) equipment cabinets within a 60' by 80' fenced compound will not cause any significant change or alteration to the physical appearance or environmental characteristics of the existing site. See Exhibit B.

The height of the existing 120' tower will not be increased by Sprint. Sprint's antennas are proposed to be installed with an antenna centerline of 107.5' AGL. CAT's tower will not require any structural modification to support the proposed PCS antennas as further explained by Exhibit D.

Sprint's facility will not increase the noise levels of the existing facility by six decibels or more. Sprint plans show that a battery backup unit will be installed in the event of any power outage and a generator is not proposed at the site. The facility will be powered with 200 amp electrical service and it will have a battery back-up for short term power outages. The proposed facility will be unmanned, but Sprint personnel will visit the site

approximately once a month for equipment checks and routine maintenance. Since there will be no permanent employees at the site, there is no need for water or sewer facilities. The existing driveway will provide site access.

Most importantly, Sprint's proposed antennas' emissions will not increase the total radio frequency electromagnetic radiation power density measured from the tower base, to or above the ANSI standard adopted by the State Department of Environmental Protection and codified in Connecticut General Statutes §22a-162.

A Sprint radio frequency engineer calculated power density and the percent of the Maximum Permissible Exposure (MPE) for this tower site assuming the worst case scenario. This worst case analysis is based on assumptions that the proposed antennas would be operating at full transmission capacity while they were pointing directly at the ground. Sprint's PCS antennas were determined to hypothetically emit 8.13% of the MPE and the cumulative MPE factoring in the potential emissions from AT&T's antennas is 15.95%. This fraction of the MPE is well below the applicable ANSI standards and FCC requirements. The power density analysis is attached as Exhibit E.

D. Economic Feasibility

Sprint and CAT have negotiated a mutually beneficial agreement to allow the use of the existing tower with business terms agreed to between the parties. This agreement was for fair consideration so the proposed tower sharing is therefore, economically feasible.

E. Public Safety Concerns

CAT's tower is structurally capable of supporting the addition of Sprint's proposed antennas. Both Sprint and CAT conducted a structural analysis of the tower. Sprint's structural analysis is attached at Exhibit D.

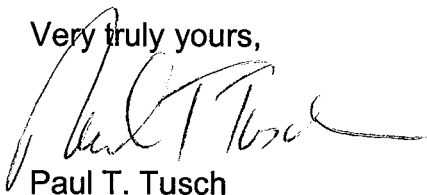
Public safety would be enhanced by the addition of Sprint's facility at 151 Berkshire Road, Newtown. In the event of catastrophic events such as, hurricanes, tornadoes, ice storms, etc, the back-up power source will ensure that local emergency service agencies as well as the general public who subscribe to Sprint PCS, will have emergency communications services during such events. Therefore, the proposed shared use of this facility would improve public safety in the Newtown area.

Pamela B. Katz, Chairperson
Connecticut Siting Council
May 9, 2003
Page 6

CONCLUSION:

For the foregoing reasons, Sprint respectfully submits that the proposed shared use of the approved telecommunications tower facility at 151 Berkshire Road satisfies the criteria set forth in C.G.S. §16-50aa, and advances the legislative goal of preventing the unnecessary proliferation of towers in Connecticut. Therefore, Sprint respectfully requests that the Council grant an order approving the proposed shared use of CAT's tower facility in Newtown.

Very truly yours,

A handwritten signature in black ink, appearing to read "Paul T. Tusch", written over a light blue horizontal line.

Paul T. Tusch

PTT/lam
Attachments

cc: The Honorable Herbert C. Rosenthal
Robert Chagnon, Sprint Spectrum, L.P.



RADIO STATION AUTHORIZATION

Commercial Mobile Radio Services
Personal Communications Service - Broadband

WIRELESSCO, L.P.
9221 Ward Parkway
Kansas City, MO 64114

Call Sign: KNLF204
Market: M001
NEW YORK
Channel Block: B
File Number: 00001-CW-L-95

The licensee hereof is authorized, for the period indicated, to construct and operate radio transmitting facilities in accordance with the terms and conditions hereinafter described. This authorization is subject to the provisions of the Communications Act of 1934, as amended, subsequent Acts of Congress, international treaties and agreements to which the United States is a signatory, and all pertinent rules and regulations of the Federal Communications Commission, contained in the Title 47 of the U.S. Code of Federal Regulations.

Initial Grant Date June 23, 1995
Five-year Build Out Date June 23, 2000
Expiration Date June 23, 2005

CONDITIONS :

Pursuant to Section 309(h) of the Communications Act of 1934, as amended, (47 U.S.C. § 309(h)), this license is subject to the following conditions: This license does not vest in the licensee any right to operate a station nor any right in the use of frequencies beyond the term thereof nor in any other manner than authorized herein. Neither this license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended (47 U.S.C. § 151, et seq.). This license is subject in terms to the right of use or control conferred by Section 706 of the Communications Act of 1934, as amended (47 U.S.C. § 606).

Conditions continued on Page 2.

WAIVERS :

No waivers associated with this authorization.

CONDITIONS:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

LETTER OF AUTHORIZATION


To: Connecticut Siting Council

Re: Sprint's Tower Sharing Application for the proposed shared use of an approved telecommunications tower located at 151 Berkshire Road, Newtown, Connecticut

I, Thomas Nolan, having authority to do so on behalf of Connecticut Architectural Towers, LLC, the Certificate Holder pursuant to Docket No. 220, does hereby authorize Sprint Spectrum, L.P. and its representatives, as Owner's agent for the purpose of completing and/or filing any application, petition or any document useful or necessary in obtaining approval or a declaratory ruling, required to provide Sprint Spectrum, L.P. with lawful access to, and the ability to use the above referenced telecommunications tower and tower compound area for the purpose of installing, erecting, or otherwise placing antennas, support structures and related equipment at the site.

Connecticut Architectural Towers, LLC., shall fully cooperate with Sprint Spectrum, L.P. and its agents in obtaining any required approval or declaratory ruling. Sprint Spectrum, L.P. shall be solely responsible for all cost, filing fees, or any other expense incurred in connection with securing such approval or declaratory ruling.

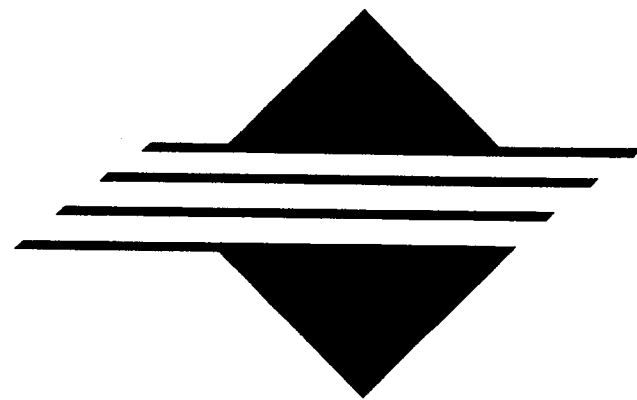
A copy of this letter shall be regarded as having the same effect as the original.

By: 
Connecticut Architectural Towers, LLC

Name: Thomas Nolan
Thomas Nolan

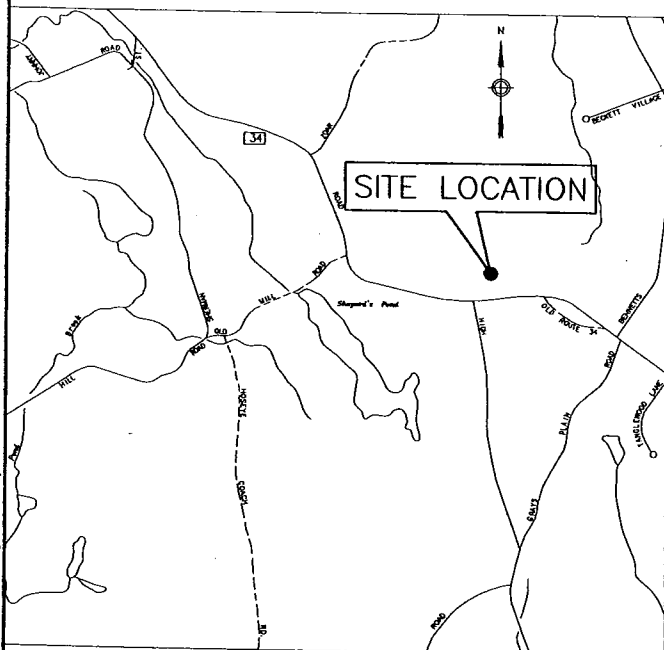
Title: Tower Manager

Date: 4/21/03



Sprint PCSSM

NEWTOWN EAST
 151 BERKSHIRE ROAD
 NEWTOWN, CONNECTICUT
 CT54XC770



LEGEND
 DATUM IS MEAN SEA LEVEL
 X — X — 8' HIGH WOOD FENCE
 - - - - - PROPOSED LEASE AREA

NOTE 1:
 THIS DOCUMENT WAS DEVELOPED TO REFLECT A SPECIFIC SITE AND ITS SITE CONDITIONS AND IS NOT TO BE USED FOR ANOTHER SITE OR WHEN OTHER CONDITIONS PERTAIN. REUSE OF THIS DOCUMENT IS AT THE SOLE RISK OF THE USER.

NOTE 2:
 THESE PLANS ARE TO BE WORKED WITH PLANS BY OTHERS DEPICTING FUTURE CONSTRUCTION AT THIS SITE. OBJECTS ON THESE PLANS DESIGNATED AS "BY OTHERS" REFER TO CONSTRUCTION YET TO BE DONE.

PROJECT SUMMARY
APPLICANT / LESSEE
 SPRINT SPECTRUM, L.P.
 1 INTERNATIONAL BLVD. 3RD FLOOR
 MAHWAH, NJ 07495
 (201) 684-4000

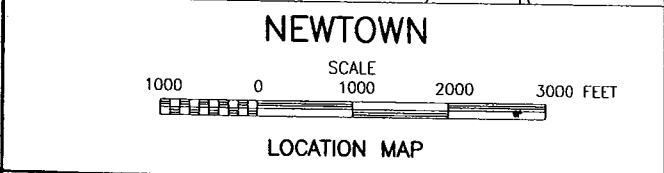
PROPERTY OWNERS
 KEVIN FRIEDMAN/KATHY KELLY
 151 BERKSHIRE ROAD
 SANDY HOOK, CT

PROJECT DESCRIPTION:
 THE PROJECT CONSISTS OF THE INSTALLATION OF PCS EQUIPMENT, SUPPORT FRAMES, ANTENNAS, AND CABLES ON A MONOPOLE. THE SYSTEM WILL BOTH TRANSMIT AND RECEIVE RADIO SIGNALS.

POWER AND TELCO UTILITIES WILL BE TAKEN FROM AN EXISTING ELECTRIC/TELCO BOARD ON-SITE AND RUN UNDERGROUND TO A POWER PROTECTION CABINET AND EQUIPMENT. NO WATER OR SEWER SERVICES ARE NEEDED.

THE PROPOSED USE DOES NOT REQUIRE FULL-TIME OR PART-TIME EMPLOYEES AT THE SITE. THE PROPOSED FACILITY IS UNMANNED AND WILL NORMALLY BE VISITED ONCE OR TWICE PER MONTH FOR MAINTENANCE; AND THE FACILITY IS NOT EXPECTED TO GENERATE ADDITIONAL NOISE, FUMES, OR VIBRATIONS.

LEASE PARCEL INFORMATION	
ADDRESS	151 BERKSHIRE ROAD
CURRENT OWNER	KEVIN FRIEDMAN / KATHY KELLY
FEMA FIRM FLOOD ZONE	C
TOWN ZONING DISTRICT	R2
AREA OF LEASE PARCEL	290.25 SF



DRIVING DIRECTIONS FROM NEW HAVEN:
 TAKE ROUTE 34 HEADING WEST. CONTINUE ON BERKSHIRE RD (RTE. 34). AFTER CROSSING GRAYS PLAIN RD, SITE ACCESS ROAD IN ON RIGHT.

ELECTRIC UTILITY: CONNECTICUT LIGHT & POWER
 CALL BEFORE YOU DIG® 800-922-4455

TELEPHONE UTILITY: SOUTHERN NEW ENGLAND TELEPHONE (SNET)

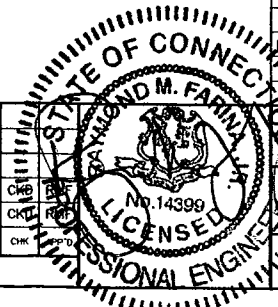
SIGNATURE BLOCK FOR PRINCIPAL PLANNER.
 SITE PLAN # _____
 DATE APPROVED _____
 PRINCIPAL PLANNER: _____
 DATE _____

DRAWING INDEX	
DRAWING	TITLE
SC1	TITLE SHEET
SC2	SITE PLAN LAYOUT & SOUTH ELEVATION

Sprint PCS

NEWTOWN EAST
 TITLE SHEET

DRAWING NUMBER	REV
3139-13	0



Dewberry-Goodkind, Inc.
 A Dewberry Company
 59 Elm Street, Suite 101
 New Haven, CT 06510
 p. (203) 776-2277
 f. (203) 776-2288

Engineers
 Planners
 Surveyors

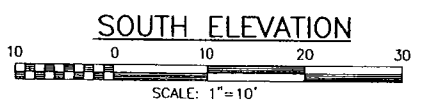
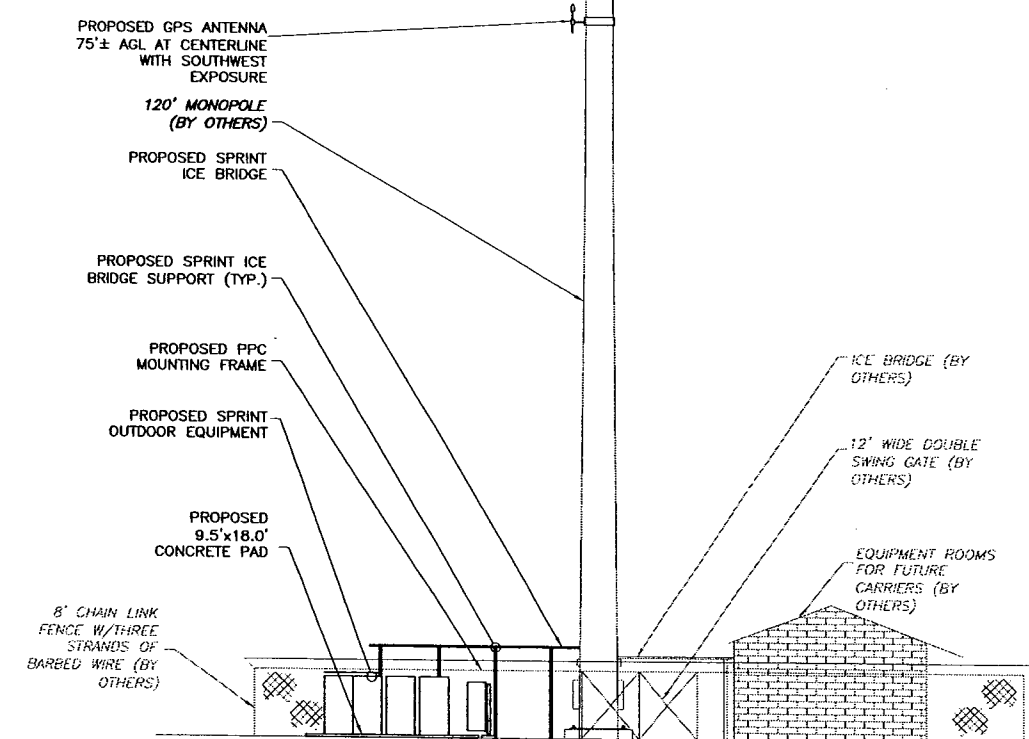
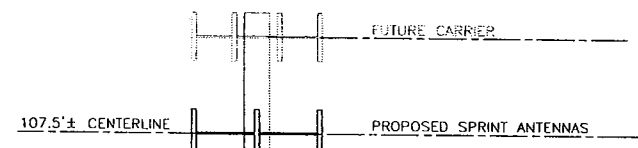
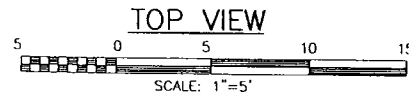
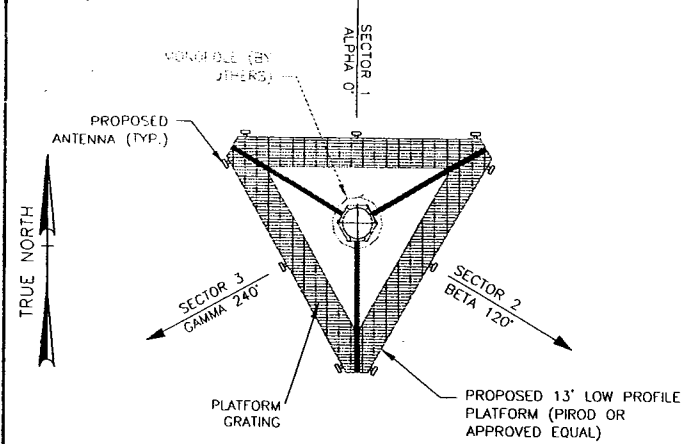
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 151 BERKSHIRE ROAD
 NEWTOWN, CONNECTICUT
 CT54XC770

Sprint Spectrum LP
 HARTFORD MTA
 SITE NO. CT54XC770

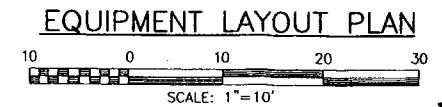
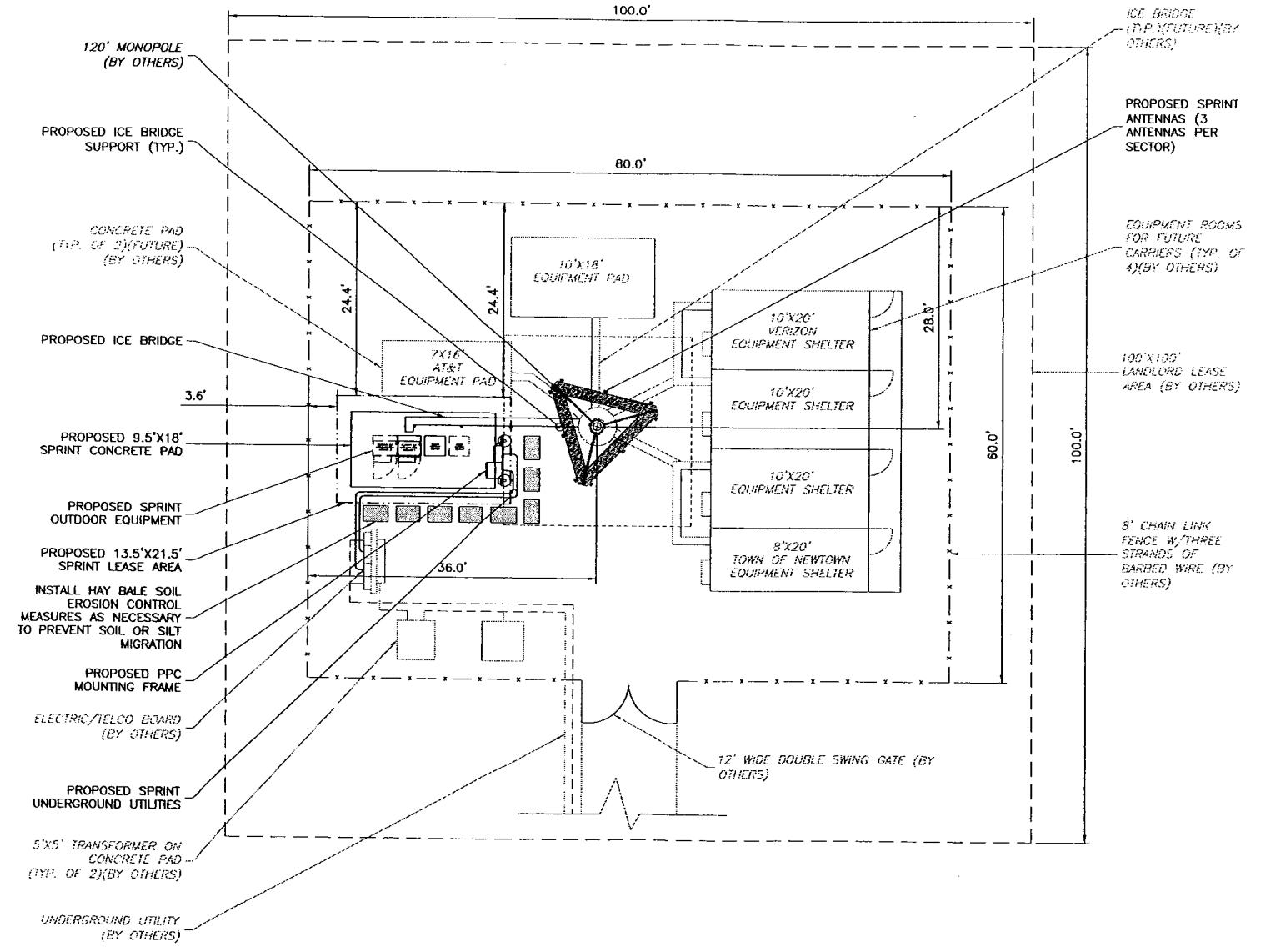
NO.	DATE	REVISIONS	BY	CHKD
1		ISSUE FOR SITING COUNCIL	MJS	CHB
2		PRELIMINARY SITING COUNCIL	MJR	CKE

SCALE AS NOTED DESIGNED CKD DRAWN MJR

Project: 3139 - Newtown East Siting Council YFA770SC1.dwg PLOT: MJB
 Date: Apr 22, 2003 10:31:13am
 User: mjb
 Plot: mjbplot



- NOTES:**
1. ANTENNA ATTACHMENTS SHOWN ARE APPROXIMATE. FINAL ANTENNA TYPES AND ORIENTATIONS TO BE DETERMINED UPON COMPLETION OF SITE DESIGN.
 2. MAINTAIN 10' MIN. VERTICAL SEPARATION BETWEEN SPRINT ANTENNAS AND OTHER ANTENNAS.



Dewberry-Goodkind, Inc.
 A Dewberry Company
 59 Elm Street, Suite 101
 New Haven, CT 06510
 p. (203) 776-2277
 f. (203) 776-2288

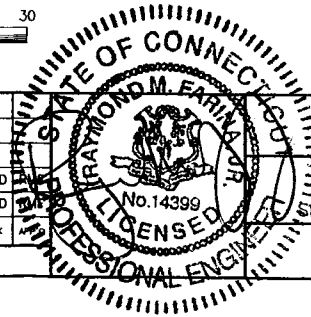
Engineers
 Planners
 Surveyors

NEWTOWN EAST
 151 BERKSHIRE ROAD
 NEWTOWN, CONNECTICUT
 CT54XC770

Sprint Spectrum LP
 HARTFORD MTA
 SITE NO. CT54XC770

NO.	DATE	REVISIONS	BY	CHK
1		ISSUE FOR SITING COUNCIL	MJS	CKD
2		PRELIMINARY SITING COUNCIL	MJR	CKD

SCALE AS NOTED DESIGNED CKD DRAWN MJR



Sprint PCS
 NEWTOWN EAST
 SITE LAYOUT AND SOUTH ELEVATION

DRAWING NUMBER	REV
3139-13	0

Xref: Layer Site.
 Plot: mradriguez
 I:\Projects\139\13-Newton East\Siting Council\YFA770SC2.dwg By: MJR
 Date: Apr 22 2003 10:27:36am

Power Density Analysis Report

for

Cascade #: CT54XC770

Newtown East

151 Berkshire Road, Newtown, CT

The Personal Communications Services (PCS) transmitting systems to be used at the site operate in the range of frequencies subject to FCC Regulation. This is the PCS B-Band, and transmits at 1950-1965 MHz.

The proposed site, located in Newtown, will be a collocation on a proposed monopole at 151 Berkshire Road. The Sprint PCS transmitting antennas will be located at an antenna centerline of 107.5ft AGL. This site will consist of 3 sectors, oriented approximately 120 degrees apart, with a maximum of 11 channels transmitting.

Pursuant to Section 24.52(a) of the former FCC rules, PCS licensees were required to comply with the human exposure levels established by the FCC. Calculations have been made using conservative methods consistent with the FCC's OET Bulletin 65, and use 1.0 mW/cm², which is the maximum permissible exposure, as specified by NCRP for PCS carriers.

The following table shows the cumulative calculated power density and the percentage of the Maximum Permissible Exposure (MPE) from the Sprint PCS and AT&T Wireless antennas.

Cumulative Power Density Analysis of Sprint PCS and AT&T Wireless Antennas					
Dwyer Property 151 Berkshire Road, Newtown, CT					
Operator	Frequency	Distance	Calculated Power Density	Maximum Permissible Exposure*	Percent of MPE
	(MHz)	(feet)	(mW/cm ²)	(mW/cm ²)	(%)
Sprint PCS	1962.5	107.5	0.081279	1.000	8.13%
ATTWS ¹	1965.0	117.5	0.078225	1.000	7.82%
Total Percentage of Maximum Permissible Exposure					15.95%
¹ Information From AT&T Wireless 'Antenna System One' Table of Development of Management Plan Dated 3/5/03					

For the proposed site on the monopole on Berkshire Road, Newtown, CT, the cumulative power density for the Sprint PCS and the AT&T Wireless antennas at the base of the tower is 0.1595 mW/cm² or is 15.95% of the MPE.

These calculations show that the cumulative effect is well below the FCC-mandated limits in all locations around the tower, even with extremely conservative assumptions.

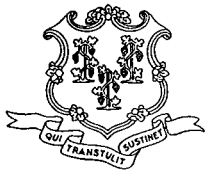
Coverage Objectives for CT54XC770, 151 Berkshire Rd, Newtown, CT

The proposed site will provide coverage to approximately 2 miles of Route 34, 1.8 miles of Bennetts Bridge Road, from SR 34 to Lakeview Terrace, 1.3 miles of Grays Plains and New Lebbon Roads, 2 miles of Toddy Hill Road to Surrey Trail and the and the immediate surrounding areas. In addition, the proposed site will provide connectivity between Sprint's existing site in Newtown and their approved site in Monroe.

Cumulative Power Density Analysis of Sprint PCS and AT&T Wireless Antennas

Dwyer Property 151 Berkshire Road, Newtown, CT

Operator	Frequency	Distance	Calculated Power Density	Maximum Permissible Exposure*	Percent of MPE
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Information From AT&T Wireless 'Antenna System One' Table of Development of Management Plan Dated 3/5/03					



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

August 21, 2002

Honorable Herbert C. Rosenthal
First Selectman
Town of Newtown
Town Hall
45 Main Street
Newtown, CT 06470

RE: **TS-SPRINT-097-030512** - Sprint Spectrum L.P. request for an order to approve tower sharing at a proposed telecommunications facility located at 151 Berkshire Road, Newtown, Connecticut.

Dear Mr. Rosenthal:

The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for May 20, 2003, at 1:30 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 proposal.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/slm

Enclosure: Notice of Tower Sharing

c: Gary Frenette, Zoning Enforcement Officer, Town of Newtown

May 5, 2003

Ms. Laura Thoman
Sprint PCS
1 International Blvd, Suite 800
Mahwah, NJ 07495

**Re: 120 Foot Monopole w/28 ft extension, Site No. CT54XC770
151 Berkshire Rd, Newtown, CT - Structural Assessment**

Dear Ms. Thoman:

We have completed our structural assessment of the proposed monopole structure to be erected at the above referenced site, to support the proposed Sprint antennas, frames and antenna cables, pursuant to Section 108.1.1 of the Connecticut State Building Code (CSBC). We have reviewed the monopole and foundation design calculations dated April 22 and 28, 2003 prepared Paul J. Ford and Company of Columbus, OH for PennSummit Tubular, LLC.

Section 1609.1 of the CSBC addresses radio and television towers and references Section 3108.4 of the 1996 BOCA Code. The BOCA Code references EIA/TIA 222-E for antenna supporting structures. The analysis of the monopole and the foundations design is based on the later version of this code, TIA/EIA 222-F, which includes all of the requirements of EIA/TIA 222-E.

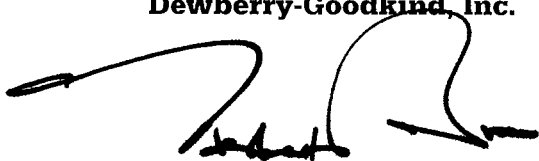
The proposed monopole will be 120ft high and has been designed to support three arrays of 12 panel antennas on low profile platforms, with 10ft vertical separation, between elevation 100ft above grade and the top of the pole. The pole design also includes for a 28ft extension supporting three additional arrays of 12 panel antennas on low profile platforms. The pole has been designed to resist wind loads generated by a basic wind speed of 85 mph; the CSBC specifies the basic wind speed for Newtown is 80mph.

The proposed Sprint installation will be the middle array on the 120ft pole at an elevation of 107.5ft above grade (this is 2.5ft lower than assumed in the analysis.) and will comprise of 9 Decibel DB980F90E-M panel antennas on low profile platforms. The wind area of the Decibel antenna is 2.6sf, the analysis assumed generic panel antennas of wind area 5.0sf. The structure was analyzed in spreadsheet format using a computer program by Paul J. Ford and Company. The lateral wind loads and the gravity loads were calculated by the program in accordance with the requirements of TIA/EIA 222-F. These loads were used to determine the forces in the monopole sections and the foundation reactions including overturning moment. Hand calculations by Dewberry-Goodkind, Inc. confirmed the results of the computer analysis.

Upon review of the signed and sealed calculations and sketches prepared by Paul J. Ford and Co. it is our conclusion that the proposed monopole, and foundations, can safely support the proposed Sprint installation, which will be the first carrier on the pole and the design is in compliance with the Connecticut State Building Code. Should you have any questions, please contact us.

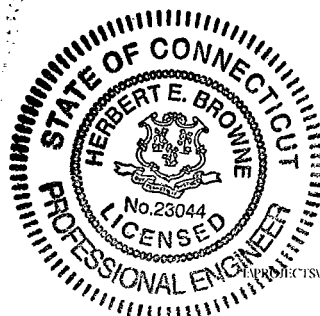
Very truly yours,

Dewberry-Goodkind, Inc.



Herbert E. Browne, P.E.
Director, Building Structures

Dewberry-Goodkind, Inc.





DB980F90E-M

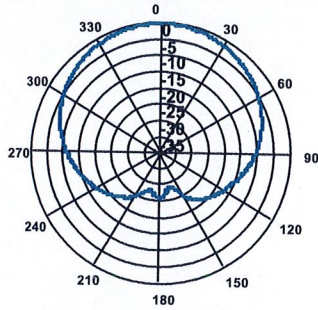
16.4 dBi, Panel Antenna
1850-1990 MHz

1850-1990 MHz

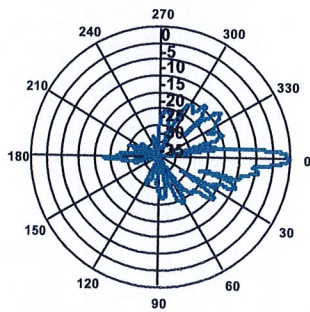
MaxFill™

- Strong filling of lower lobes to increase signal intensity levels in hard to cover areas
- Excellent upper side lobe suppression, reducing co-channel interference
- Sturdy construction and 100% factory testing assure years of trouble free service
- Low profile, low wind load for easy site zoning and lower installation costs

90°



Horizontal 1950 MHz



Elevation (Vertical) 1950 MHz



Electrical		Mechanical	
Frequency (MHz):	1850-1990	Weight:	9.5 lbs (4.3 kg)
Polarization:	Vertical	Dimensions (LxWxD):	60 X 6 X 3 in (1524 X 152 X 76 mm)
Gain (dBd/dBi):	14.3/16.4	Max. Wind Area:	2.6 ft ² (0.25 m ²)
Azimuth BW:	90°	Max. Wind Load (@ 100mph):	105 lbf (467 N)
Elevation BW:	6°	Radiator Material:	Brass
Beam Tilt:	0°	Reflector Material:	Pass. Aluminum
USLS* (dB):	>18	Radome Material:	PVC, UV Resistant
Null Fill* (dB):	12	Mounting Hardware Material:	Galvanized Steel
Front-to-Back Ratio* (dB):	25	Connector Type:	7/16 DIN - Female (Bottom)
VSWR:	<1.33:1	Alt. Connectors:	7/16 DIN
IM Suppression - Two 20 Watt Carriers:	-150 dBc	Color:	Light Gray
Impedance:	50 Ohms	Standard Mounting Hardware:	DB390
Max Input Power:	250 Watts	Downtilt Mounting Hardware:	DB5098, DB5099
Lightning Protection:	DC Ground	Opt. Mounting Hardware:	DB5094-AZ
Opt Electrical Tilt:	0°, 2°, 4°, 6°		

* Typical Values

8635 Stemmons Freeway Dallas, Texas U.S.A 75247-3701
Dallas/Ft.Worth Area Tel: 214.631.0310 Fax: 214.631.4706
Toll Free Tel: 1.800.676.5342 Fax: 1.800.229.4706
www.decibelproducts.com
dbtech@decibelproducts.com

Date: 12/20/2002

EDMOND TOWN HALL
45 MAIN STREET
NEWTOWN, CONNECTICUT 06470
TEL. (203) 270-4201
FAX (203) 270-4205
e-mail: newtown@snet.net
www.newtownct.org



HERBERT C. ROSENTHAL
FIRST SELECTMAN

TOWN OF NEWTOWN
OFFICE OF THE FIRST SELECTMAN

FAXED on 5/20/03

May 20, 2003

RECEIVED

MAY 21 2003

CONNECTICUT
SITING COUNCIL

Pamela B. Katz, Chairperson
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

Re: TS-SPRINT – 097-030512 Request for Tower Sharing approval per C.G.S. §16-50aa
Applicant: Sprint Spectrum, L.P. co-location on Connecticut Architectural Towers, LLC
approved tower **Location:** 151 Berkshire Road, Newtown

Dear Ms. Katz:

The Town of Newtown has consistently favored tower sharing and co-location of telecommunications facilities when they have proved the need for coverage. Based on the representations in a letter to me, dated May 9, 2003, from Paul T. Tash of Cacace, Tusch, Santagata, Attorneys at Law, on behalf of this Sprint Spectrum, L.P. application, and the attached materials submitted to you as Chair of the Siting Council the same date, the Town of Newtown does not object to this application.

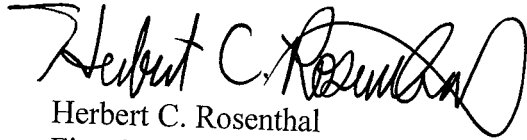
Our position is conditioned on the following:

- i. That the tower owners, Connecticut Architectural Towers, LLC (“CAT”), f/k/a James E. Dwyer Co., Inc. will keep their agreement with the Town of Newtown to locate our emergency services (police, fire, EMS) whip antennas and equipment, including providing a generator at no cost to the Town of Newtown, for our upgrade from a low band to a high band radio communications system. This agreement was noted in the findings of Fact and the Siting Council’s requirements in your Decision and Order approving Dwyer’s application Docket #220 for a “spec” tower last year on June 3, 2002.
2. That they bring in their plans and letter of approval from the Siting Council to the Town of Newtown.

3. That Sprint will contact Town Building and Land Use Departments prior to and during construction to make sure that code and environmental, i.e., sediment and erosion control measures are followed, etc.

Thank you for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "Herbert C. Rosenthal". The signature is fluid and cursive, with a large loop at the end.

Herbert C. Rosenthal
First Selectman

HCR/jan

RECEIVED

MAY 12 2003

Attorneys at Law

777 Summer Street
P.O. Box 15859
Stamford, Connecticut 06901-0859

(203) 327-2000
Facsimile (203) 353-3392

Greenwich Office:
124 West Putnam Avenue
Greenwich, Connecticut 06830

e.mail: PTUSCH@LAWCTS.COM

CONNECTICUT
SITING COUNCIL

May 9, 2003

MICHAEL J. CACACE*
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RICHARD S. FISHER
RONALD E. KOWALSKI, II
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DAVID J. COVIELLO
BARBARA S. KOTEEN*
JESSICA HUHNS-KENZIK

OF COUNSEL
ERIC D. GRAYSON*

LEGAL ASSISTANTS
EVA LEE CHAN
CYNTHIA L. MAMMONE
DONNA A. SIMMONS

*ALSO ADMITTED IN NEW YORK
*ALSO ADMITTED IN LOUISIANA

CERTIFIED MAIL, RETURN RECEIPT REQUESTED

The Honorable Herbert C. Rosenthal
First Selectman
Town of Newtown
45 Main Street
Newtown, CT 06470

**Re: ... Application to the Connecticut Siting Council Request for Shared Use
of a Tower Facility pursuant to Conn. Gen. Stat. § 16-50aa
151 Berkshire Road, Newtown**

Dear First Selectman Rosenthal:

Sprint Spectrum, L.P. (Sprint) proposes to install PCS antennas and related equipment at the tower facility owned by Connecticut Architectural Towers, LLC ("CAT"), f/k/a James E. Dwyer Co., Inc., approved to be built at 151 Berkshire Road, Newtown. Sprint has applied to the Connecticut Siting Council for an order approving the shared use of the tower facility pursuant to Connecticut General Statutes § 16-50aa.

Sprint's proposed shared use of the tower is consistent with the State of Connecticut legislative finding and purpose of avoiding the unnecessary proliferation of towers by using existing structures wherever feasible. CAT's monopole is designed to support additional carriers' antennas and, as such, Sprint is seeking approval to co-locate a wireless facility on this tower to be constructed in the near future.

Sprint's proposed facility will be located entirely within CAT's tower compound area as depicted on the site plan.

The Honorable Herbert C. Rosenthal
May 9, 2003
Page Two

Enclosed for your review is a copy of the materials Sprint submitted to the Connecticut Siting Council. If you have any questions regarding Siting Council review, please contact that agency at (860) 827-2935. If you have questions regarding Sprint's proposal, please do not hesitate to contact me at the above number.

Very truly yours,

Paul T. Tusch

PTT/la
Enclosure

cc: Pamela B. Katz, Connecticut Siting Council
Robert Chagnon, Sprint Spectrum L.P.

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