



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

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

September 21, 1999

Julie M. Cashin, Esq.
Hurwitz & Sagarin LLC
147 North Broad Street
Milford, Connecticut 06460-0112

RE: TS-SPRINT-097-990831 – Sprint PCS request for an order to approve tower sharing at an existing telecommunications facility located at 8 Ferris Road in Newtown, Connecticut.

Dear Ms. Cashin:

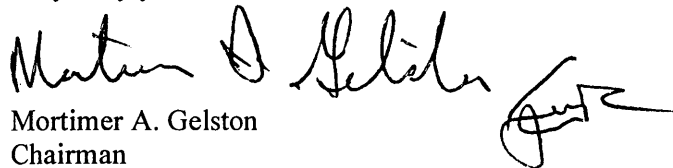
At a public meeting held September 16, 1999, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures.

This facility has been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used 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 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 letters dated August 31, 1999 and September 13, 1999. Please notify the Council when all work is complete.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/SLL/sll

cc: Honorable Herbert Rosenthal, First Selectman, Town of Newtown
Ronald C. Clark, Manager – Real Estate, Nextel Communications

HURWITZ & SAGARIN LLC

September 13, 1999

Via Overnight Delivery

Steven Levine
Staff Analyst
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

RECEIVED

SEP 14 1999

**CONNECTICUT
SITING COUNCIL**

RE: TS-Sprint-097-990831
Sprint PCS request for an order to approve towersharing at an existing telecommunications facility located at 8 Ferris Road in Newtown, Connecticut.

Dear Mr. Levine:

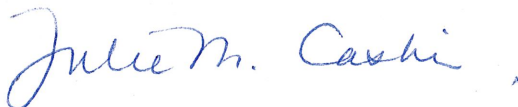
At your request please find the enclosed documentation in support of the above referenced request:

1. Cumulative Power Density Calculations;
2. A copy of the design criteria for the 120 ft. monopole proposed for co-location by Sprint in the above referenced application.
You will note that the structure was designed to accommodate four (4) platforms with twelve (12) antennas attached to each platform. Sprint proposes to locate at the designed height of 108 ft.
3. A copy of the cover letter which accompanied the towersharing request as well as the certified mail receipt which indicates receipt of notice by the Town of Newtown.

In response to your request for information regarding the adjacent land uses I would note that the structure and compound are located in a R-1 (residential) zone as indicated in Docket Decision 98-24, attached as Exhibit C of the towersharing request.

Please contact me if you have any questions or need any further information or documentation.

Very truly yours,



JULIE M. CASHIN

CT13XC245 - Nextel Tower, 8 Ferris Road, Newtown, CT
Cumulative Worst Case Power Density Analysis of Sprint PCS and
Nextel Antennas

Operator	Operating Frequency	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)	(feet)	(mW/cm ²)	(mW/cm ²)	(%)
Nextel	851	118	0.023269	0.57	4.10%
Sprint PCS	1962.5	108	0.155154	1.00	15.52%

**Total Percentage of
Maximum
Permissible Exposure**



19.62%



CT13XC245 - Nextel Tower, 8 Ferris Road, Newtown, CT
Worst Case Power Density Analysis of Nextel Antennas @ Base of Tower. Assumes Max ERP
& No Antenna Pattern Adjustment

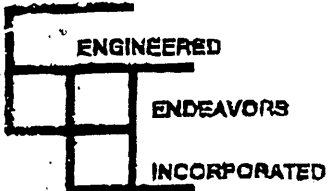
Operating Frequency (MHz)	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Total ERP (Watts)	Antenna Height (Feet)	Distance From Base of Tower (Feet)	Slant Distance (Feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure*	%MPE
851	9	100	900	118	0	118	0.023269	0.56733	4.1015%
851	9	100	900	118	50	128	0.019727	0.56733	3.4772%
851	9	100	900	118	100	155	0.013543	0.56733	2.3871%
851	9	100	900	118	150	191	0.008895	0.56733	1.5679%
851	9	100	900	118	200	232	0.006008	0.56733	1.0591%
851	9	100	900	118	250	276	0.004240	0.56733	0.7473%
851	9	100	900	118	300	322	0.003118	0.56733	0.5495%
851	9	100	900	118	350	369	0.002375	0.56733	0.4186%
851	9	100	900	118	400	417	0.001863	0.56733	0.3284%
851	9	100	900	118	450	465	0.001497	0.56733	0.2639%
851	9	100	900	118	500	514	0.001228	0.56733	0.2164%

***Requirements set forth in OET Bulletin 65. Based on NCRP Report No. 86 and ANSI/IEEE C95.1-1992**

CT13XC245 - Nextel Tower, 8 Ferris Road, Newtown, CT
Worst Case Power Density Analysis of Sprint PCS Antennas @
Base of Tower. Assumes Max ERP & No Antenna Pattern
Adjustment

Operating Frequency (MHz)	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Total ERP (Watts)	Antenna Height (Feet)	Distance From Base of Tower (Feet)	Slant Distance (Feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure*	%MPE
1962.5	11	457	5027	108	0	108	0.155154	1	15.5154%
1962.5	11	457	5027	108	50	119	0.127769	1	12.7769%
1962.5	11	457	5027	108	100	147	0.083536	1	8.3536%
1962.5	11	457	5027	108	150	185	0.052972	1	5.2972%
1962.5	11	457	5027	108	200	227	0.035029	1	3.5029%
1962.5	11	457	5027	108	250	272	0.024402	1	2.4402%
1962.5	11	457	5027	108	300	319	0.017801	1	1.7801%
1962.5	11	457	5027	108	350	366	0.013489	1	1.3489%
1962.5	11	457	5027	108	400	414	0.010542	1	1.0542%
1962.5	11	457	5027	108	450	463	0.008450	1	0.8450%
1962.5	11	457	5027	108	500	512	0.006916	1	0.6916%

*Requirements set forth in OET Bulletin 65. Based on NCRP Report No. 86 and ANSI/IEEE C95.1-1992



Customer NEXTEL COMMUNICATIONS By JAY PARR 6/29/99
Structure 120' MONOPOLE Checked _____ Date 5189
Job/Quote No. _____

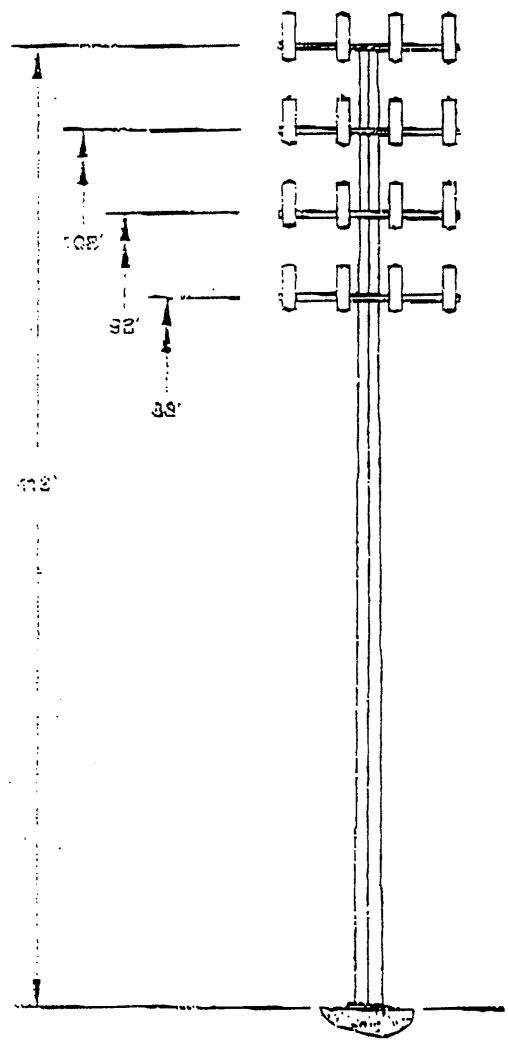
SITE LOCATION: NEWTOWN, CT
SITE NAME: CT-0915 NEWTOWN

DESIGN LOADING

NOTE: The purpose of this drawing is to demonstrate loading only. Unless requested, this drawing will not be included in any of the official documents sent out by EEI.

ANTENNA LOADING:

- (12) ALP 9212 PANEL ANTENNAS AT 118'
- LOW PROFILE PLATFORM AT 118'
- (12) 48000 PANEL ANTENNAS AT 108'
- LOW PROFILE PLATFORM AT 108'
- (12) 4 ft PANEL ANTENNAS AT 98'
- LOW PROFILE PLATFORM AT 98'
- (12) 4 ft PANEL ANTENNAS AT 88'
- LOW PROFILE PLATFORM AT 88'



DESIGN NOTES:

- DESIGNED IN ACCORDANCE WITH TIA/EIA 222-F
- 85 MPH BASIC WIND SPEED
- 1/2" RADIAL ICE
- CASE I - 85 MPH BASIC WIND SPEED
- CASE II - 75% OF 85 MPH WIND LOAD WITH 1/2" RADIAL ICE

NOTE: IT IS THE RESPONSIBILITY OF THE PURCHASER TO VERIFY THAT THE WIND LOADS AND DESIGN CRITERIA SPECIFIED MEET THE REQUIREMENTS OF ALL LOCAL BUILDING CODES

HURWITZ & SAGARIN LLC

August 31, 1999

Via Hand Delivery

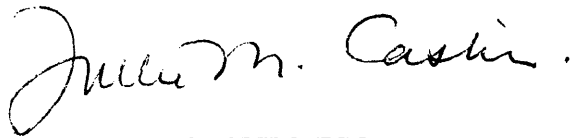
Mr. Mortimer A. Gelston, Chairman
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Dear Chairman Gelston:

On behalf of the applicant, Sprint Spectrum L.P. ("Sprint PCS") I am pleased to submit this application for a Tower Sharing Proposal for the Nextel Communications of the Mid-Atlantic, Inc. telecommunications facility located at 8 Ferris Road, Newtown, Connecticut.

Enclosed are one (1) original and twenty (20) copies of this Tower Sharing Proposal requesting shared use of this facility. A check in the amount of \$500.00 to cover the filing fee is also enclosed. The First Selectman of the Town of Newtown has been sent notice of this Tower Sharing Proposal by certified mail.

Sincerely,



JULIE M. CASHIN, ESQ.
JMC/dsw

Enclosures

cc: First Selectman Herbert Rosenthal
Town of Newtown
Steve Crotty, Nextel Communications
Roseanne Martino, Sprint Spectrum L.P.

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. Addressee's Address
2. Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

Herbert Rosenthal
 First Selectman
 Town of Newtown
 45 Main Street
 Newtown, Connecticut 06470

4a. Article Number
 Z 300 095 264

4b. Service Type

<input type="checkbox"/> Registered	<input checked="" type="checkbox"/> Certified
<input type="checkbox"/> Express Mail	<input type="checkbox"/> Insured
<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> COD

7. Date of Delivery
 9/11/99

5. Received By: (Print Name)
 Belair Christopher

8. Addressee's Address (Only if requested and fee is paid)

6. Signature: (Addressee or Agent)
 X *[Signature]*

PS Form 3811, December 1994 102595-98-8-0229 Domestic Return Receipt

Thank you for using Return Receipt Service.

UNITED STATES POSTAL SERVICE



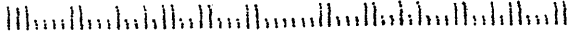
First-Class Mail
 Postage & Fees Paid
 USPS
 Permit No. G-10

• Print your name, address, and ZIP Code in this box •

HURWITZ & SAGARIN LLC
 ATTORNEYS AT LAW
 147 North Broad Street P.O. Box 112
 Milford, Connecticut 06460

RECEIVED
 SEP - 7 1999

HURWITZ & SAGARIN, P.C.





STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

September 7, 1999

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

RE: TS-SPRINT-097-990831 - Sprint PCS request for an order to approve tower sharing at an existing telecommunications facility located at 8 Ferris Road in Newtown, Connecticut.

Dear Mr. Rosenthal:

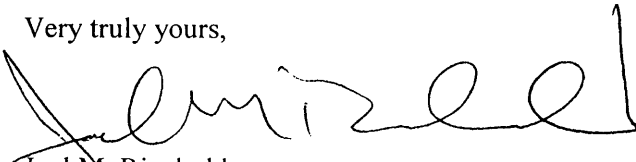
The Connecticut Siting Council (Council) received this request for tower sharing, pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting scheduled for Thursday, September 16, 1999, at 1:30 p.m. in Hearing Room Three, 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,



Joel M. Rinebold
Executive Director

JMR/jlh

Enclosure: Notice of Tower Sharing

HURWITZ & SAGARIN LLC

August 31, 1999

Via Hand Delivery

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

RECEIVED

AUG 31 1999

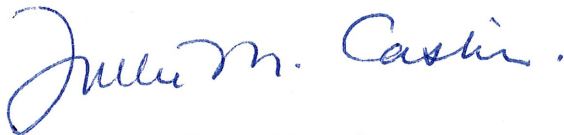
CONNECTICUT
SITING COUNCIL

Dear Chairman Gelston:

On behalf of the applicant, Sprint Spectrum L.P. ("Sprint PCS") I am pleased to submit this application for a Tower Sharing Proposal for the Nextel Communications of the Mid-Atlantic, Inc. telecommunications facility located at 8 Ferris Road, Newtown, Connecticut.

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Sincerely,



JULIE M. CASHIN, ESQ.
JMC/dsw

Enclosures

cc: First Selectman Herbert Rosenthal
Town of Newtown
Steve Crotty, Nextel Communications
Roseanne Martino, Sprint Spectrum L.P.

Application of Sprint PCS
to the Connecticut Siting Council
for a Tower Sharing Proposal for the
facility located at 8 Ferris Road
Newtown, Connecticut

Dated: August 31, 1999 in Milford, CT

Introduction

Sprint Spectrum, L.P. ("Sprint PCS") seeks to share the Nextel Communications of the Mid-Atlantic, Inc. ("Nextel") telecommunications tower located at 8 Ferris Road, Newtown, Connecticut ("Nextel Facility"). Sprint PCS hereby requests a finding from the Connecticut Siting Council ("Council") that the shared use of this facility is technically, legally, environmentally, and economically feasible and meets public safety concerns in accordance with Section 16-50aa of the Connecticut General Statutes ("C.G.S.").

Background

The property at 8 Ferris Road, Newtown, Connecticut is owned by Erich A. Gertsch and Patricia A. Gertsch ("the Gertschs"). The Gertschs have leased a portion of this property to Nextel ("Site")(see location map attached as Exhibit B at Page T-1). Nextel received a Special Permit and Variance from the Town of Newtown ("Newtown") to construct a telecommunications facility at the Site. (See Docket Decision 98-24 attached hereto as Exhibit C). Nextel constructed a 120-foot steel monopole tower, accompanied by appurtenant equipment building(s) at the Site, and has entered into a license agreement with Sprint PCS so that Sprint may locate its antennas and appurtenant equipment at the Site.

Tower Sharing Proposal

The purpose of this Tower Sharing Proposal¹ is to utilize an existing facility rather than construct a new tower in Newtown. The Ferris Road Facility is the only viable co-location opportunity for Sprint PCS in the area.

A. Ferris Road Facility as a "Facility"

For the purposes of this Tower Sharing Proposal, and pursuant to Section 16-50aa of the Connecticut General Statutes, "... Facility means a tower owned or operated for a commercial or public purpose by a person, firm, corporation or a public agency which uses such tower for transmitting or receiving signals in the electromagnetic spectrum pursuant to a Federal Communications Commission license." The Ferris Road Facility currently supports Nextel's telecommunications equipment, and falls within the definition of a "facility" as set forth in C.G.S. §16-50aa.

B. Project Description

Sprint PCS is licensed by the Federal Communications Commission ("FCC") to provide PCS wireless service throughout the State of Connecticut, including the Newtown area. The proposed shared use of the Ferris Road Facility is in furtherance of the Sprint PCS network and in fulfillment of its FCC License. The proposed shared use of the Ferris Road Facility will provide Sprint PCS the opportunity to provide PCS service to Newtown residents and businesses, as well as those traveling through Newtown. Propagation plots depicting Sprint PCS' existing coverage, and anticipated coverage to be provided by the proposed co-location on the Ferris Road Facility are attached hereto as Exhibit D.

¹ Narrative and form attached as Exhibit A constitute this Tower Sharing Proposal.

Sprint PCS proposes to install a low-profile antenna platform, with PCS antennas mounted on the platform, at a height of 108 feet at the Ferris Road Facility. Sprint PCS seeks to locate as many as nine (9) antennas on the platform at the 108-foot level, and a small global positioning system (“GPS”) antenna at the 75-foot level of the Ferris Road Facility (see Tower Elevation attached hereto as Exhibit B at Page SC-2). Sprint PCS intends to use Decibel Products antenna model DB980H90(E)-M, which measures 60 inches high by 6.1 inches wide by 2.8 inches deep (see antenna specifications attached hereto as Exhibit E).

The base station equipment associated with these antennas would be located on a 8 ½ ft by 20 ft concrete pad within the compound area.(See Site Plan attached as Exhibit B.)

C. Compliance with C.G.S. § 16-50aa

Pursuant to C.G.S. § 16-50aa, “The General Assembly finds that the sharing of towers for fair consideration whenever technically, legally, environmentally and economically feasible, and whenever such sharing meets public safety concerns, will avoid the unnecessary proliferation of towers and is in the public interest.” An analysis of how the proposed Sprint PCS co-location at the Ferris Road Facility conforms with C.G.S. § 16-50aa is outlined below:

1. *Technical Analysis*

Sprint PCS and Nextel have reviewed the technical parameters of the existing communications facilities and determined it is extremely unlikely that the proposed Sprint PCS and existing Nextel antennas will result in any interference, due to either the sectorized positioning of the antennas, vertical separation, low power, or any other factors. Sprint PCS does not intend to cause interference and will correct any interference in the unlikely event that it does occur.

2. *Legal Feasibility*

Sprint PCS has entered into a license agreement with Nextel for the purposes of locating antennas and associated equipment at the Ferris Road Facility. The Council has the authority pursuant to C.G.S. §16-50aa to issue orders approving Sprint PCS's proposed shared use of Ferris Road Facility.

3. *Environmental Feasibility*

The proposed shared use would have a minimal environmental effect for the following reasons:

- This proposed shared use will not increase the tower height as approved by the Newtown Zoning Board of Appeals. Sprint PCS antennas will be installed below the approved height of 120 feet.
- This proposed shared use will not expand the compound area beyond that already approved by the Town of Newtown. The proposed installation by Sprint PCS will have an insignificant visual impact and will not cause any significant change or alteration in the physical or environmental characteristics of the Site.
- This proposed shared use will not increase noise levels at the Site boundary by six decibels.
- This proposed shared use will not increase the total radio frequency electromagnetic radiation of the power density measured at the Site to or above the standard adopted by the Federal Communications Commission. An engineering exhibit attached as Exhibit F lists the calculated worst case power density at the base of the Ferris Road Facility.

- The proposed installations by Sprint PCS will not require any water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is complete, the proposed Sprint PCS installation will not generate any traffic other than periodic maintenance visits.

The proposed shared use of the Ferris Road Facility by Sprint PCS will have a minimal environmental effect, and is therefore environmentally feasible.

4. *Economic Feasibility*

As previously mentioned, Sprint PCS and Nextel have agreed upon acceptable terms and entered into a lease agreement with one another. The proposed shared use of the Ferris Road Facility is therefore economically feasible.

5. *Public Safety Concerns*

There are no known public safety concerns associated with this Tower Sharing Proposal.

The Ferris Road Facility is structurally capable of simultaneously supporting Sprint PCS and Nextel antennas. Sprint PCS anticipate that the provision of new or improved phone service made possible by the shared use of the Ferris Road Facility will enhance the safety and welfare of area residents.

Conclusion

The above Tower Sharing Proposal satisfies all of the criteria set forth in Section 16-50aa of the Connecticut General Statutes, including technical, legal, environmental, and economic feasibility, and meets public safety concerns. Sprint PCS respectfully request that the Council issue an order approving the proposed shared use.

TELECOMMUNICATIONS TOWER SHARING PROPOSAL

FILING DATE: 8/31/99

Pursuant to section 16-50aa of the Connecticut General Statutes (CGS), this form is to be used to initiate telecommunications tower sharing proposals between two parties. The full text of section 16-50aa of the CGS is attached. All information is to be provided by the requesting party after consultation with the tower owner, property owner, and other appropriate persons. Any type of information that cannot be obtained due to an uncooperative tower owner, property owner, or other persons should be so identified in this form.

REQUESTING PARTY: Sprint Spectrum L.P.

ADDRESS: Crossroads Corporate Center, 1 International Blvd., Suite 800, Mahwah, NJ 07495

REPRESENTED BY: Julie M. Cashin, Esq., Hurwitz & Sagarin, LLC

TELEPHONE: 203-877-8000

ADDRESS: 147 North Broad Street, Milford, Connecticut 06460-0112

TOWER OWNER: Nextel Communications of the Mid-Atlantic, Inc.

ADDRESS: 100 Corporate Place, Rocky Hill, Connecticut

PROPERTY OWNER: Erich and Patricia Gertsch

TELEPHONE:

ADDRESS: 8 Ferris Road, Newtown, Connecticut

PROPOSED SERVICE:

SEE NARRATIVE

SUMMARY OF PROPOSED ACTION:

SEE NARRATIVE

PROPOSED EQUIPMENT :

ANTENNA 1: SPRINT SPECTRUM L.P.

Type:

Decibel Products - DB980H90(E) - M

Azimuth and location (height) on tower:

40, 140, 240 @ 108 Ft. AGL

Description:

(9) Panel Antenna 60" H x 6.1" W x 2.8" D; (1) Global Positioning Antenna (GPS) antenna

Frequency, emission type, transmit power, and wave length:

1950 MHz, PCS B Band Carrier, 122 Watts ERP per Transmitter, 0.15 Meters

ANTENNA 2: N/A

ANTENNA 3: N/A

ANCILLARY EQUIPMENT (Example: Equipment Building):

BTS equipment to be installed on a 8 ½ ft. x 20 ft concrete pad.

***TECHNICAL ANALYSIS: (Example: Frequency Coordination and Tower Loading)**

SEE NARRATIVE

LEGAL ANALYSIS: (Example: Access and Maintenance Responsibility)

SEE NARRATIVE

ENVIRONMENTAL ANALYSIS: (Example: Visibility and Calculated or Measured Power Densities at Site Boundaries)

SEE NARRATIVE

***ECONOMIC ANALYSIS: (Example: Project Cost, Proposed Compensation, and Financial Condition of the Applicant)**

SEE NARRATIVE

PUBLIC SAFETY ANALYSIS: (Example: Site Security and Tower Lighting and Marking)

SEE NARRATIVE

This filing shall be completed by the requesting party, if possible in consultation with the tower owner and property owner, and filed with the Connecticut Siting Council (Council) at the same time it is served to the tower owner and property owner. The tower owner, property owner, and other interested parties may respond to this proposal form with service to the Council and all other parties within 30 days of the filing of this form.

TELECOMMUNICATIONS TOWER SHARING PROCEDURE:

1) File completed Telecommunications Tower Sharing Proposal Form.

If necessary, request arbitration by the Council.

2) If necessary, formally request a feasibility proceeding by the Council.

Notice of public hearing within 30 days after formal request for feasibility proceeding.

Public hearing within 90 days after formal request for feasibility proceeding.

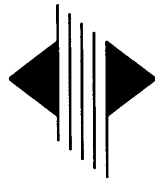
Council decision within 180 days after formal request for feasibility proceeding.

3) If necessary, initiate arbitration to determine compensation within 90 days of the Council's decision of feasibility or disagreement by parties regarding fair compensation.

4) If necessary, initiate court action to determine compensation.

*Exclude from public submittal if confidential or proprietary.

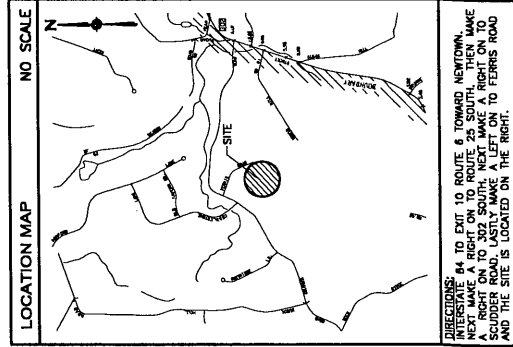
Connecticut General Statutes Section 16-50aa



Sprint PCS

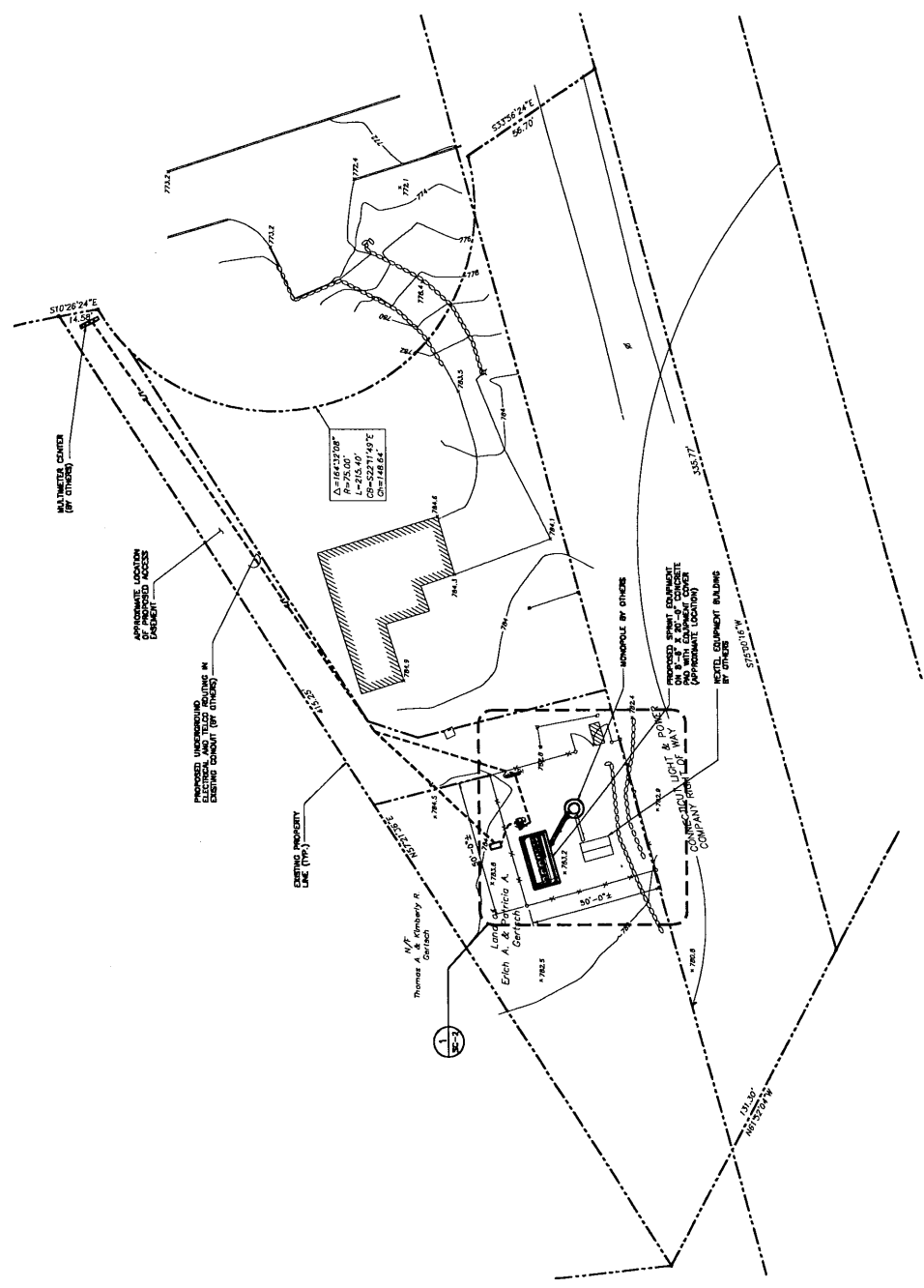
SITE I.D.# CT13XC245

DOGINGTOWN 8 FERRIS ROAD NEWTOWN, CONNECTICUT 06470



GENERAL NOTES	
1. ADA COMPLIANCE: FACILITY IS NOT STAFFED AND NOT NORMALLY OCCUPIED.	
2. REFERENCE IS MADE TO THE SURVEY MAP ENTITLED "PARTIAL BOUNDARY AND TOPOGRAPHIC SURVEY, LAND AND INTERESTS OF SPRINT PCS AT 8 FERRIS ROAD, DOGINGTOWN, NEWTOWN, CONNECTICUT PREPARED FOR SPRINT PCS" DATED MAY 1999 BY URS CREINER WOODWARD CLYDE.	
PROJECT DESCRIPTION	
PROPOSED INSTALLATION OF A WIRELESS TELECOMMUNICATIONS FACILITY, SPRINT PCS ANTENNAS TO BE LOCATED ON A PROPOSED NEXTEL MONOPOLE. EQUIPMENT TO BE GROUND MOUNTED.	
PROJECT INFORMATION	
SITE NAME:	DOGINGTOWN
LANDLORD:	NEXTEL 100 CORPORATE PLACE ROCKY HILL, CT 06067
PROPERTY OWNER:	ERICH A. AND PATRICIA A. GERTSCH
SITE ADDRESS:	8 FERRIS ROAD NEWTOWN, CT 06470
MAP/BLOCK/LOT:	7/7/11
PROJECT DIRECTORY	
APPLICANT:	SPRINT PCS 9 BARNES INDUSTRIAL ROAD WALLINGFORD, CT 06492 (203) 294-5600
ENGINEER:	URS CREINER WOODWARD CLYDE, A.E.S. 500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT URS CREINER WOODWARD CLYDE, A.E.S. 500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT
LAND SURVEYOR:	URS CREINER WOODWARD CLYDE, A.E.S. 500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT
SHEET INDEX	
T-1	TITLE SHEET
SC-1	SITE MODIFICATION PLAN
SC-2	COMPOUND PLAN AND TOWER ELEVATION

URS Creiner Woodward Clyde A-E-S 500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT 1-800-529-6868	DOGINGTOWN 8 FERRIS ROAD NEWTOWN, CONNECTICUT		HARTFORD, MIA SITE NO. CT13XC245		<table border="1"> <tr> <td>DATE</td> <td>DESCRIPTION</td> <td>BY</td> <td>CHK</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>		DATE	DESCRIPTION	BY	CHK					Sprint PCS TITLE SHEET SHEET NO. 1 TOTAL SHEETS 1
					DATE	DESCRIPTION	BY	CHK							
<table border="1"> <tr> <td>DATE</td> <td>DESCRIPTION</td> <td>BY</td> <td>CHK</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	DATE	DESCRIPTION	BY	CHK											
DATE	DESCRIPTION	BY	CHK												



$\Delta = 164.12'08"$
 $P = 75.00'$
 $C = 522.11'00"$
 $C = 148.64'$

1 SITE MODIFICATION PLAN
 SC-1 SCALE: 1"=50'-0"

Sprint PCS

SITE MODIFICATION PLAN

JOB NO. F301772.59/F03

CHANG NUMBER SC-1

REV 1

NO.	DATE	DESCRIPTION	BY	CHK	APP

Sprint PCS

HARTFORD, MTA

SITE NO. CT1302248

DOGINGTOWN

8 DENNIS ROAD

NEWTON, CONNECTICUT

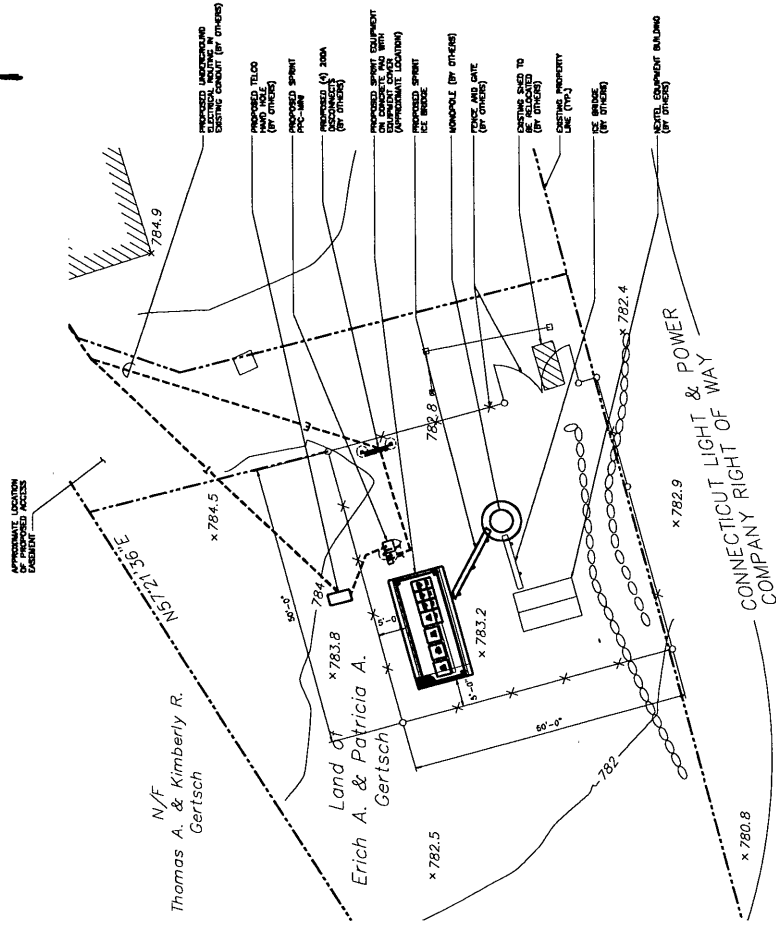
URS Greiner Woodward Clyde

A-E-S

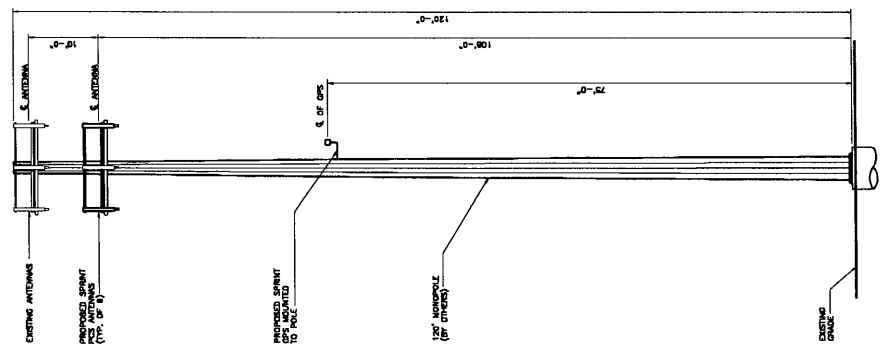
500 ENTERPRISE DRIVE

ROCKY HILL, CONNECTICUT

1-800-450-9882



1 COMPOUND PLAN
SCALE: 1"=10'-0"



2 TOWER ELEVATION
SCALE: 1/4"=1'-0"

COMPOUND PLAN AND TOWER ELEVATION		HARTFORD, MTA		DOGINTOWN		8 FERNS ROAD NEWTON, CONNECTICUT	
JOB NO. F301772.99/F03		SITE NO. CT13K24S		500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT P-0807-08P-0002		500 ENTERPRISE DRIVE ROCKY HILL, CONNECTICUT P-0807-08P-0002	
OWNER NAME: SC-2		DRAWN BY:		CHECKED BY:		DATE:	
PROJECT NO.: SC-2		SCALE:		SHEET NO.:		TOTAL SHEETS:	



TOWN OF NEWTOWN
ZONING BOARD OF APPEALS

DOCKET DECISION 98-24

Application of Nextel Communications of the Mid-Atlantic Inc. for a Special Permit under Section 4.18.511 to construct a tower over 30 feet in height and a variance of Section 4.05.100 of the Zoning Regulations. The property is located at 8 Ferris Road in the Town of Newtown in a R-1 Zone.

Having considered the documentation and testimony presented at a public hearing held on October 7, 1998, the Board voted to APPROVE the application as presented with the following stipulations:

1. A 12' chain-link fence be erected around the area of the installation.
2. A landscape plan must be submitted to the Board for approval before installation.
3. If the current use is changed or abandoned, the complete installation must be either removed within 60 days or have reapplied to the Board within 60 days.

The Board therefore APPROVES the application as presented with the above-stated stipulations.

The Board orders further that the effective date of this decision shall be November 13, 1998, and that a certified copy hereof shall be filed in the office of the Town Clerk of the Town of Newtown and that public notice of such filing shall be published in the November 13, 1998 issue of the Newtown Bee.

ZONING BOARD OF APPEALS OF THE TOWN OF NEWTOWN


Charles E. Annett, III, Chairman

I hereby certify that the adoption of the foregoing decision is recorded in the minutes of the Zoning Board of Appeals of the Town of Newtown in the form of a resolution, the vote of which was as follows:

Charles E. Annett....."Yes"
Alan Clavette....."Yes"
Timothy J. Cronin....."Yes"

Sally J. O'Neil....."Yes"
Michael Daubert....."Yes"


Sally J. O'Neil, Secretary Pro-tem

November 12, 1998

Newtown, Ct.

PLANET V2.8
Mobile Systems International Inc
Fri Aug 27 11:44:07 1999

Coverage from existing and approved
sites surrounding proposed site.

Centre Long: 73 21'44.7"W Lat: 41 22'42.2"N

Scale: 1:100000

Connecting_Road

Neighborhood_Road

Primary_Road

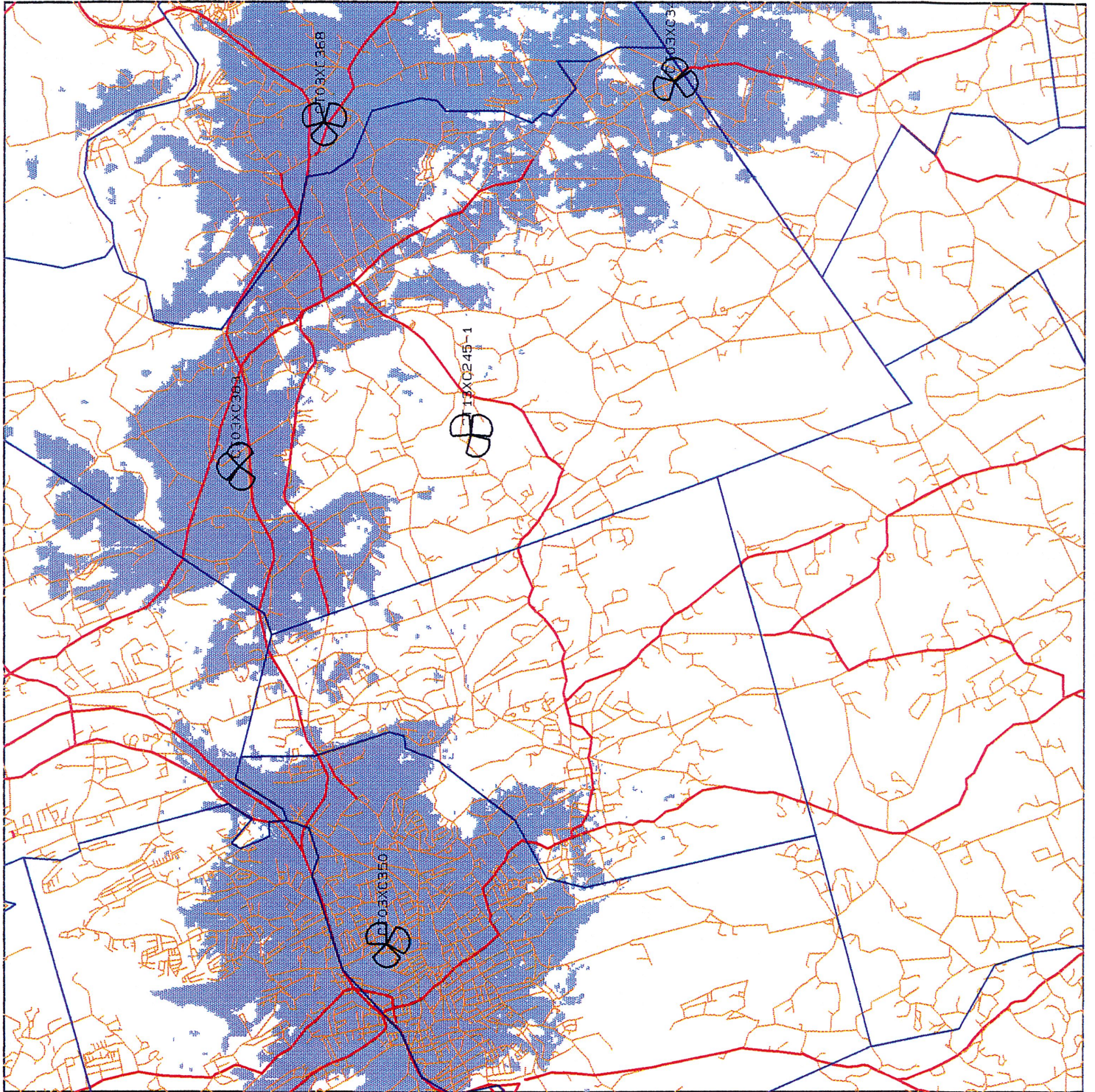
Secondary_Road

Road

Zipcode Boundaries

Coverage

Rural Level: -94dBm



PLANET V2.8
Mobile Systems International Inc
Fri Aug 27 11:47:43 1999

Coverage from proposed site at
8 Ferris Road.

Centre Long: 73 21'44.7"W Lat: 41 22'42.2"N

Scale: :: 100000

- Connecting_Road
- Neighborhood_Road
- Primary_Road
- Secondary_Road
- Road

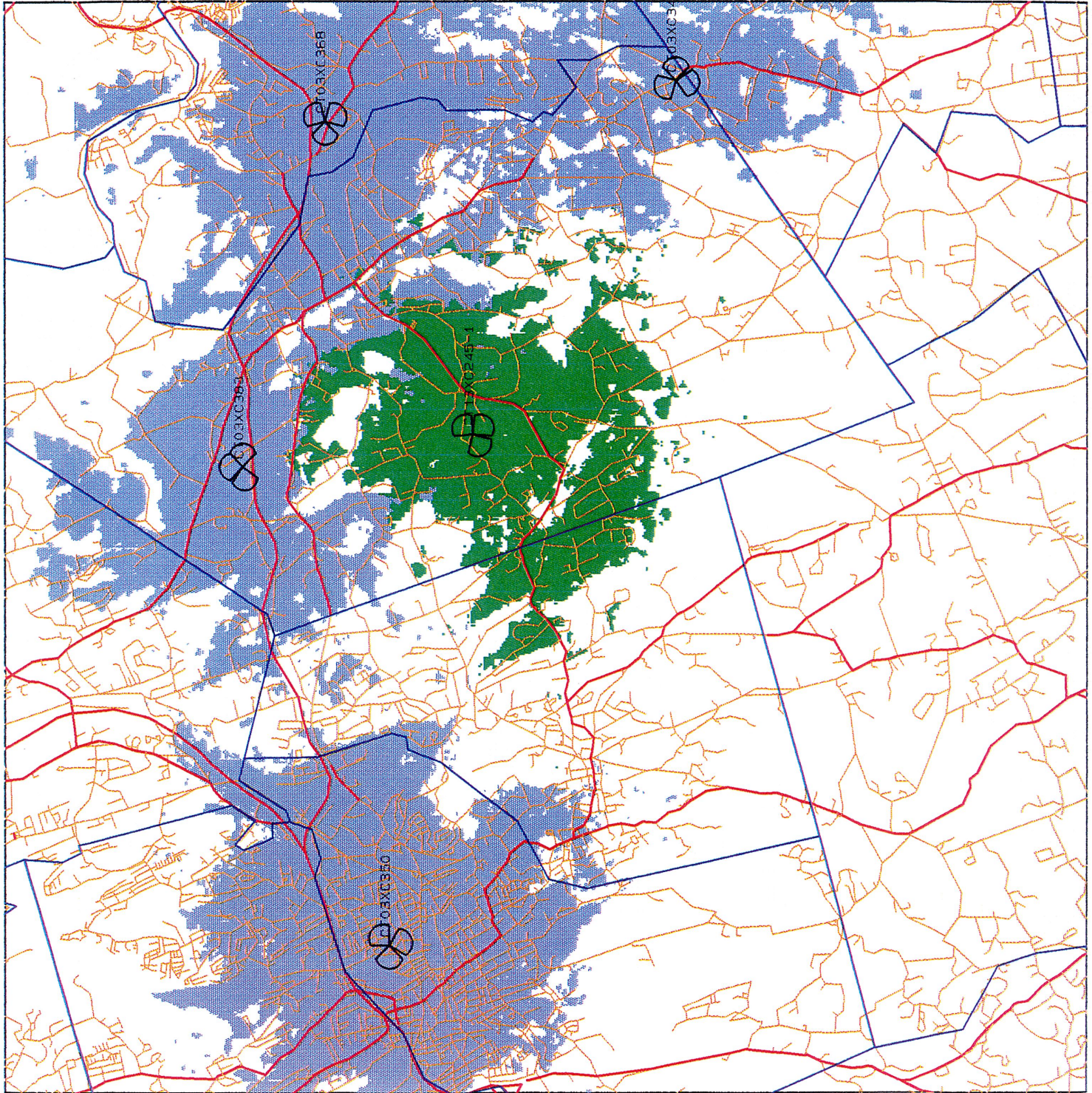
Zipcode Boundaries

Coverage

Rural Level: -94dBm

Signal dBm

>= -94

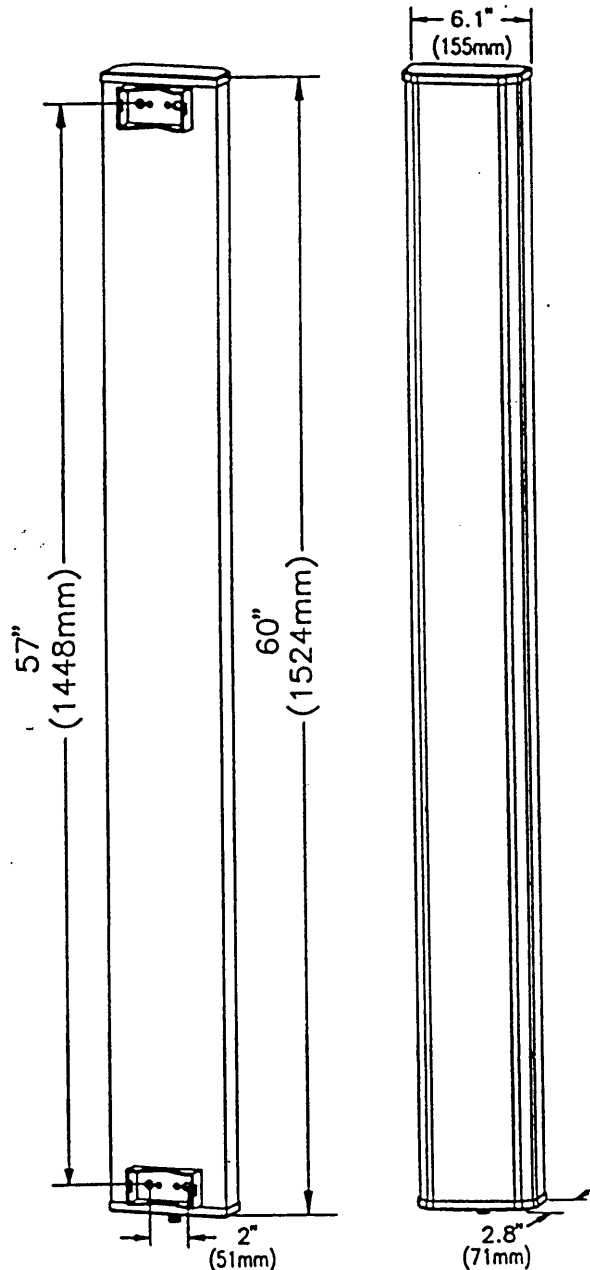


DB980H90(E) -

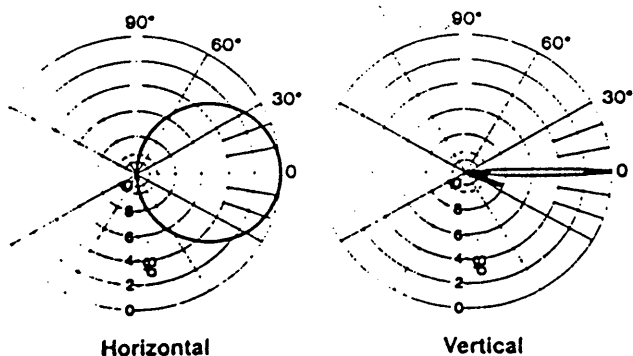
- KL: 1710-1880 MHz
- M: 1850-1990 MHz

90°, 15 dBd Directional Antenna

Model Number	DB980H90-KL/M	DB980H90E-KL/M
Termination	Type N-Female	7/16 DIN
Frequency Range	-KL: 1710 - 1880 MHz -M: 1850 - 1990 MHz	
Gain	15 dBd or 17.1 dBi	
Null Fill	First lower null is less than 18 dB down from max. First upper side lobe suppressed.	
VSWR	< 1.5:1	
Beamwidth (3dB from max)	Horizontal	90° ± 7.0° Vertical 5.5° ± 0.5°
Front to Back Ratio	>25 dB	
Polarization	Vertical	
Max. Input Power	250 Watts	
Application	PCN, PCS, DCS1800	
Weight	8.5 lbs (4.0 kg)	
Wind Area	2.5 ft ² (.24 m ²)	
Wind Load	101.7 lbf (452.2N) 45.7 kp (at 100 mph)	
Max. Wind Speed	165 mph (260 km/h)	
Material	Reflector Screen: Pass. Aluminum Radiators: Brass Radome: PVC, UV Resistant Mtg. Hardware: Pass. Aluminum, Stainless Steel	
Color	Normal: Gray	
Mounting	Band clamps included.	
Downtilt Brackets (Optional)	DB5095	
Weather Protection	Fully protected by backplate and radome.	
Lightning Protection	All metal parts grounded.	
Packing Size	72" x 7" x 6"	
Shipping Weight	13.2 lbs (6 kg)	



Antenna Patterns



15 dBd (17.1 dBi) Gain Directional Antenna with 90° horizontal 3 dB beamwidth -KL: 1710-1880 MHz or -M: 1850-1990 MHz.

099045-000-H 12/95



DECIBEL PRODUCTS
A Division of the ALLEN TELECOM GROUP

8635 Stemmons Freeway • P. O. Box 569610 • Dallas, Texas 75356-9610
214 / 631-0310 • Fax: 214 / 631-4706



**CT13XC5245 - Nextel Tower, 8 Ferris Road,
Newtown, CT**

**Worst Case Power Density Analysis of Sprint PCS Antennas @ Base of Tower. Assumes
Max ERP & No Antenna Pattern Adjustment**

Operating Frequency (MHz)	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Total ERP (Watts)	Antenna Height (Feet)	Distance From Base of Tower (Feet)	Calculated Power Density (mW/cm ²)	Maximum Permissible Exposure*	%MPE
1962.5	11	457	5027	108	0	0.155154	1	15.5154%
1962.5	11	457	5027	108	50	0.127769	1	12.7769%
1962.5	11	457	5027	108	100	0.083536	1	8.3536%
1962.5	11	457	5027	108	150	0.052972	1	5.2972%
1962.5	11	457	5027	108	200	0.035029	1	3.5029%
1962.5	11	457	5027	108	250	0.024402	1	2.4402%
1962.5	11	457	5027	108	300	0.017801	1	1.7801%
1962.5	11	457	5027	108	350	0.013489	1	1.3489%
1962.5	11	457	5027	108	400	0.010542	1	1.0542%
1962.5	11	457	5027	108	450	0.008450	1	0.8450%
1962.5	11	457	5027	108	500	0.006916	1	0.6916%

***Requirements set forth in OET Bulletin 65. Based on NCRP Report No. 86 and ANSI/IEEE C95.1-1992**