

# HURWITZ & SAGARIN LLC

December 18, 2000

EM-SPRINT-098-001215

Mr. Joel M. Rinebold  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**Re: Notice of Exempt Modification  
Southern New England Telephone Facility  
453 Loon Meadow Road  
Norfolk, Connecticut**

**RECEIVED**  
DEC 18 2000  
CONNECTICUT  
SITING COUNCIL

Dear Mr. Rinebold:

Sprint Spectrum L.P. ("Sprint") hereby requests acknowledgement that Sprint's proposed co-location on the Southern New England Telephone ("SNET") telecommunications facility located at 453 Loon Meadow Road, Norfolk, Connecticut ("Norfolk Facility") constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). Sprint submits this request for acknowledgement as agent for SNET. Letter of authorization is attached hereto as Exhibit A. Under this request for acknowledgment, SNET intends to allow Sprint to install antennas and related equipment at this existing telecommunications facility in Norfolk. Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of modification to an existing telecommunications tower that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Norfolk First Selectman Susan M Dyer.

The existing facility consists of a 161 foot self-supporting lattice tower and related equipment located at 453 Loon Meadow Road, Norfolk, Connecticut. This tower currently contains numerous antennas/dishes operated by various entities.

Sprint plans to attach nine panel antennas approximately 5 feet in height to an antenna platform mounted on the tower at a centerline of 152'-10" AGL. A structural analysis letter dated October 16, 2000 from Bayar Engineering hereto as Exhibit B, confirms that the existing structure will be capable of supporting Sprint's equipment. Sprint may install up to seven equipment cabinets and a GPS antenna on a frame near the base of the tower within the existing site compound.

The proposed modifications to the Norfolk Facility fall squarely within and satisfy the requirements set forth in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not increase the height of the tower. Sprint's antennas will be installed at a centerline of approximately 152 feet above ground level (AGL). Sprint's GPS antenna will be mounted to the tower at an antenna height of 50 feet AGL. The site plan attached as Exhibit C confirms that the proposed Sprint installation will not increase the overall height of the tower.

2. The installation of Sprint equipment near the base of the tower, as reflected on the attached site plan, will not require an extension of the site boundaries. Sprint's proposed equipment location, fencing, access and utility routing will be located entirely within the existing compound.

3. The proposed modifications will not increase the noise levels at the existing facility by six decibels or more.

4. The operation of the additional antennas will not increase the total radio frequency (RF) power density, measured at the site boundary, to a level at or above the applicable standard. The "worst-case" RF power density calculation at the tower base would be 0.067703 mW/cm<sup>2</sup> for the Sprint antennas. The calculated "worst-case" power density for the combined operations at the site is 33.12% of the standard for general population/uncontrolled exposure as evidenced by the engineering exhibit attached hereto as Exhibit D.

For the foregoing reasons, Sprint respectfully submits that the proposed addition of Sprint's antennas and equipment at the Norfolk Facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Very truly yours,



JULIE M. CASHIN  
Enc.

cc: Susan Dyer, First Selectman  
Karen Nielsen, Sprint Spectrum L.P.  
David Eales, Atlantic Western  
Don Wilson, RCC Consultants



SNET

310 Orange Street  
Floor 6  
New Haven, CT 06510

December 15, 2000

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

RE: SNET Tower Site - 453 Loon Meadow Road, Norfolk CT

Dear Mr. Gelston:

Please accept this letter as authorization for Sprint Spectrum LP to submit application to the Connecticut Siting Council for space on the SNET Tower located at 453 Loon Meadow Road, Norfolk, CT.

Should you have any questions, please feel free to contact me at (203)771-5013.

Sincerely,

*Dawn Holmes*  
Dawn Holmes  
Manager-Real Estate Administration

Cc: Don Wilson, RCC Consultants  
Attorney Julie Cashin

**BE**

**BAYAR ENGINEERING, P.C.**  
Structural Engineers  
P.O. Box 1267, Port Chester, N.Y. 10573-0267  
TEL: (914) 921-4067 FAX: (914) 927-2147

Demirtas C. Bayar, P.E.

October 16, 2000

Mr. Alan Pelletier  
SEA Consultants Inc.  
750 Old Main Street, Suite 100  
Rocky Hill, CT 06067-1567

Re: Exist. guyed tower at Norfolk, CT.  
BE Job No.: 2011

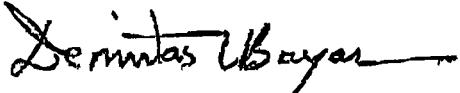
Dear Mr. Pelletier,

We analyzed the existing 160' guyed tower at Norfolk, CT for the addition of a nine DB980HQD antennas to be mounted at the 152'-10" above the base of the tower. Three antennas will face three directions. The separation of the antennas will be 5'-0" as shown on the attached sketch No. 2011. Also a GPS antenna will be mounted at the 50' level.

Our analysis was based on the number of antennas and the code requirements indicated in the Sprint tower structure and foundation analysis requirements. We designed the tower for 80 m.p.h. basic wind speed, exposure BC, without ice and for 3/4 of the load with 1/2" ice.

The existing tower will not require any alteration. We are assuming that the mounting frame for the support of the antennas will be designed such that no bending moments will be introduced into the existing members. We need to review and approve the new design drawings in order to satisfy SNET requirements. Our engineering fees for the review of the drawings, administering and recording into the SNET files will be \$500.00. Should you wish us to prepare the design drawings our engineering fees will be \$3900.00 which will include the review of shop drawing and all expenses.

Yours truly,



Demirtas C. Bayar, P.E. #12725  
President

**CT33XC116 - SNET Tower, 453 Loon Meadow Drive, Norfolk, 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 Transmitters	Effective Radiated Power (ERP) Per Transmitter (Watts)	Total ERP (Watts)	Antenna Height (feet)	Distance From Base of Tower (Feet)	Calculated Power Density (mW/cm <sup>2</sup> )	Maximum Permissible Exposure*	%MPE
1962.5	11	395	4345	152	0	0.067703	1	6.7703%
1962.5	11	395	4345	152	50	0.061092	1	6.1092%
1962.5	11	395	4345	152	100	0.047251	1	4.7251%
1962.5	11	395	4345	152	150	0.034300	1	3.4300%
1962.5	11	395	4345	152	200	0.024788	1	2.4788%
1962.5	11	395	4345	152	250	0.018273	1	1.8273%
1962.5	11	395	4345	152	300	0.013830	1	1.3830%
1962.5	11	395	4345	152	350	0.010743	1	1.0743%
1962.5	11	395	4345	152	400	0.008543	1	0.8543%
1962.5	11	395	4345	152	450	0.006933	1	0.6933%
1962.5	11	395	4345	152	500	0.005727	1	0.5727%

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

**CT33XC116 - SNET Tower, 453 Loon Meadow Drive, Norfolk, CT**

**Cumulative Worst Case Power Density Analysis of Sprint PCS and Existing Antennas**

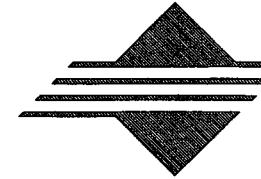
Operator	Operating Frequency (MHz)	Distance to Target (feet)	Calculated Power Density (mW/cm <sup>2</sup> )	Maximum Permissible Exposure* (mW/cm <sup>2</sup> )	Fraction of MPE (%)
<b>SNET<sup>a</sup></b>	<b>880</b>	<b>142</b>	<b>0.125000</b>	<b>0.5867</b>	<b>21.31%</b>
<b>Voicestream<sup>a</sup></b>	<b>1930</b>	<b>123.5</b>	<b>0.016600</b>	<b>1.00</b>	<b>1.66%</b>
<b>Pagenet<sup>a</sup></b>	<b>931.1875</b>	<b>167</b>	<b>0.021000</b>	<b>0.6208</b>	<b>3.38%</b>
<b>Sprint PCS</b>	<b>1962.5</b>	<b>152</b>	<b>0.222970</b>	<b>1.00</b>	<b>6.77%</b>

**Total Percentage of Maximum Permissible Exposure**

**33.12%**

<sup>a</sup> Power Density Values taken from 10/14/97 Omnipoint

Communications filing with Connecticut Siting Council.



*Sprint PCS*

# WIRELESS COMMUNICATION FACILITY

SITE # CT33XC116  
NORFOLK, CT

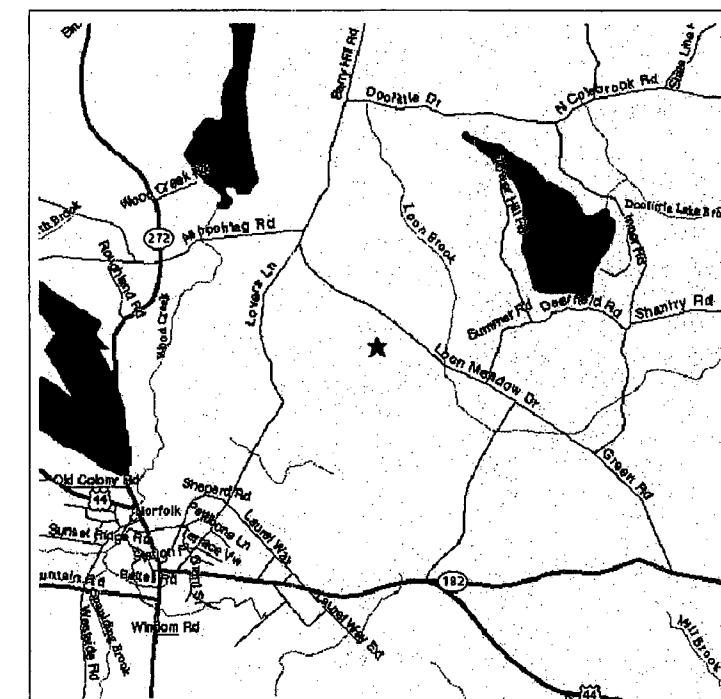
## PROJECT INFORMATION

SITE NAME:	SNET-NORFOLK
SITE NUMBER:	CT33XC116a
DATE PREPARED:	NOVEMBER 2, 2000
TYPE OF BUILD:	CO-LOCATION
SITE ADDRESS:	453 LOON MEADOW ROAD NORFOLK, CT 06058
COUNTY:	LITCHFIELD
MAP/BLOCK/LOT #S:	6-14/007/0
LATITUDE:	42° 00' 31"
LONGITUDE:	73° 10' 45"
SITE OWNER:	SNET 227 CHURCH ST NEW HAVEN, CT
SITE CONTACT:	RCC CONSULTANTS, INC. CONTACT: DON WILSON PHONE: 732/404-2522
APPLICANT:	SPRINT PCS CROSSROADS CORPORATE CENTER 1 INTERNATIONAL BLVD., 8TH FLOOR MAHWAH, NJ 07494
CONSTRUCTION MGR.:	PINNACLE SITE DEVELOPMENT, INC 41 SEQUIN DRIVE, 2ND FLOOR GLASTONBURY, CT 06033 CONTACT: STEVE FLORIO PHONE: 860/659-9248
ARCHITECT/ENGINEER:	SEA CONSULTANTS, INC. 2080 SILAS DEANE HIGHWAY SUITE 302 ROCKY HILL, CT 06067 CONTACT: ALAN PELLETIER PHONE: 860/563-7775 x138

## LIST OF DRAWINGS

SHEET NO.	DRAWING TITLE
CSC116	CONNECTICUT SITING COUNCIL

November 2000



LOCUS PLAN  
(N.T.S.)

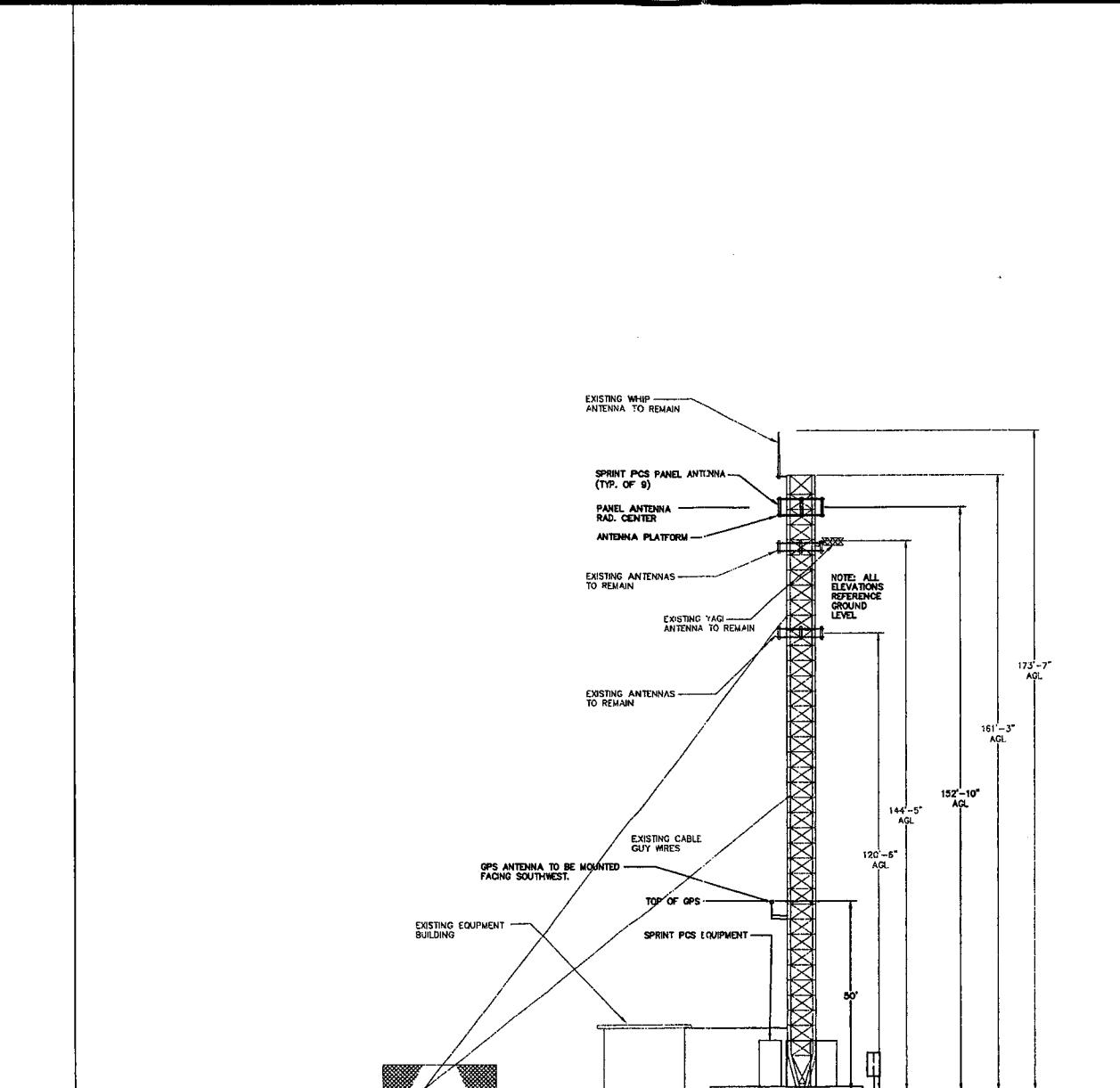
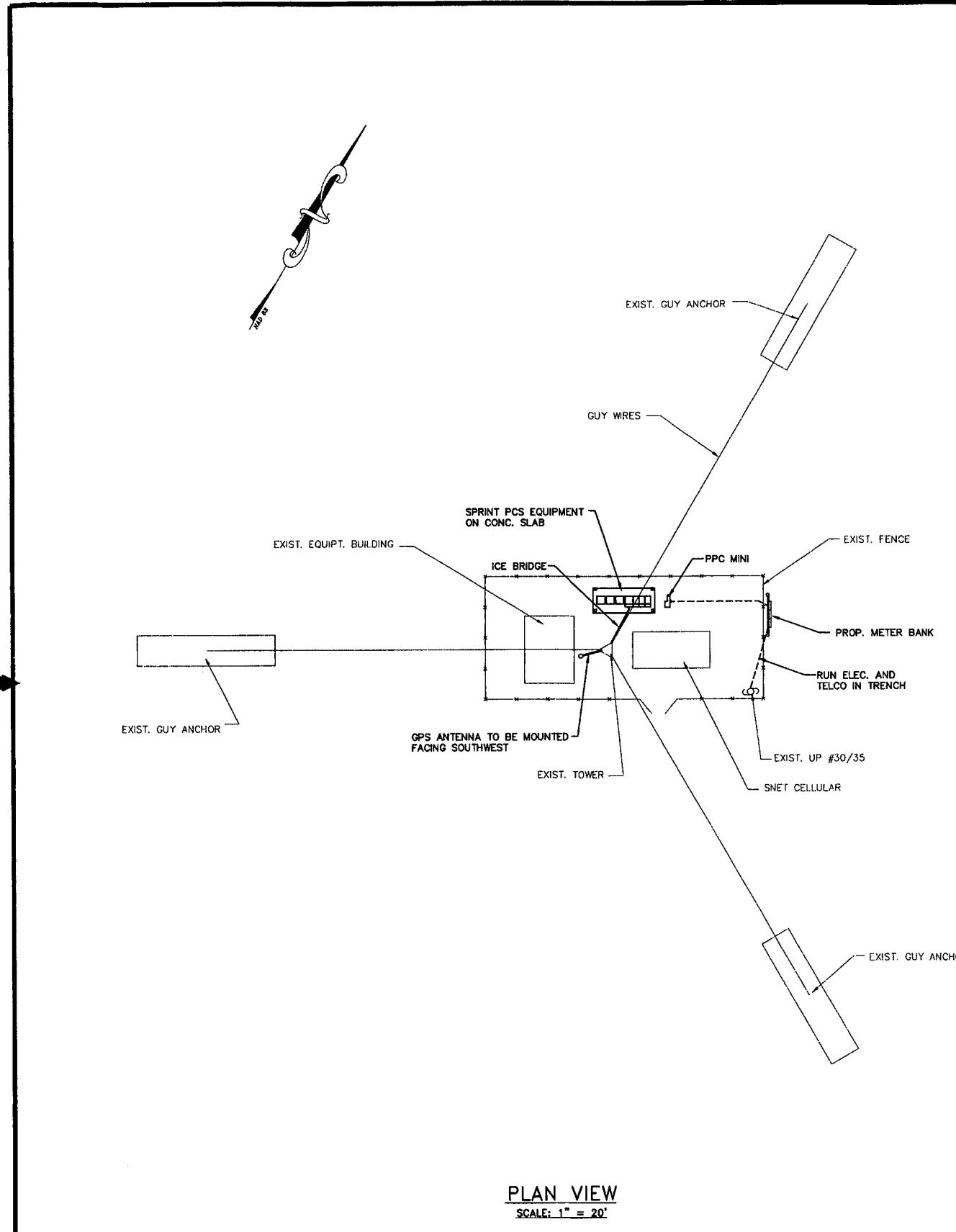


SEA Consultants Inc.  
Science/Engineering/Architecture

CAMBRIDGE, MASSACHUSETTS  
CONCORD, NEW HAMPSHIRE

ROCKY HILL, CONNECTICUT  
ROCHESTER, NEW YORK

CT33XC116



PLAN VIEW

453 LOON MEADOW ROAD  
NORFOLK, CT 06058

 Sprint PCS  
HARTFORD MTA  
SITE NO. CT33XC116

△					
△					
△					
△	11/02/00	ISSUED FOR USE	CDG	AMP	WNH
△	10/20/00	PRELIMINARY	CDG	AMP	WNH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE	AS SHOWN	DESIGNED	CDG	DRAWN	CDG 10/20/00

NORTHEAST ELEVATION

# HURWITZ & SAGARIN LLC

November 21, 2000

*Telecopier*

Mr. Robert Ehrling  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051

Re: EM-Sprint-098-001215 notice of intent to modify an existing telecommunications facility located at 453 Loon Meadow Road Norfolk Connecticut

Dear Bob:

Enclosed please find the revised power density calculation chart for the proposed Sprint installation at the SNET facility above referenced site.

Please call me if you have any questions.

Very truly yours,

*Julie M. Cashin*

JULIE M. CASHIN  
dsw/enc.

Cc: Karen Nielsen

**RECEIVED**  
JAN 11 2001  
**CONNECTICUT  
SITING COUNCIL**

LAW OFFICES

147 North Broad Street, P.O. Box 112, Milford, Connecticut 06460-0112

Tel. 203-877-8000 • Fax 203-878-9800

**CT33XC116 - SNET Tower, 453 Loon Meadow Drive, Norfolk, CT**  
**Cumulative Worst Case Power Density Analysis of Sprint PCS and Existing Antennas**

<b>Operator</b>	<b>Operating Frequency</b>	<b>Distance to Target</b>	<b>Calculated Power Density</b>	<b>Maximum Permissible Exposure*</b>	<b>Fraction of MPE</b>
	(MHz)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
<b>SNET <sup>a</sup></b>	<b>880</b>	<b>142</b>	<b>0.125000</b>	<b>0.5867</b>	<b>21.31%</b>
<b>Voicestream <sup>a</sup></b>	<b>1930</b>	<b>123.5</b>	<b>0.016600</b>	<b>1.00</b>	<b>1.66%</b>
<b>Pagenet <sup>a</sup></b>	<b>931.1875</b>	<b>167</b>	<b>0.021000</b>	<b>0.6208</b>	<b>3.38%</b>
<b>Sprint PCS</b>	<b>1962.5</b>	<b>152</b>	<b>0.073724</b>	<b>1.00</b>	<b>7.37%</b>

**Total Percentage of Maximum Permissible Exposure** **33.72%**

<sup>a</sup> Power Density Values taken from 10/14/97 Omnipoint Communications filing with Connecticut Siting Council.