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

September 9, 2002

Peter W. van Wilgen
SNET Mobility, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-026-027-045-076-106-152-020702** - SNET Mobility, LLC notice of intent to modify existing telecommunications facilities located in Chester, Clinton, East Lyme, Madison, Old Saybrook, and Waterford.

Dear Mr. van Wilgen:

At a public meeting held on September 5, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify an existing telecommunications facility at 15 Minor Lane, Waterford, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies. The Chester, Clinton, East Lyme, Madison, and Old Saybrook sites were previously approved on July 11, 2002.

The proposed modifications are to be implemented as specified here and in your notice dated July 2, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have 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 will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of 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.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable Paul B. Eccard, First Selectman, Town of Waterford
Thomas V. Wagner, Planning Director, Town of Waterford

I:\siting\em\cing\multiple\020702so\dc090502waterford.doc

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

July 15, 2002

Peter W. van Wilgen
SNET Mobility, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-026-027-045-076-106-152-020702** - SNET Mobility, LLC notice of intent to modify existing telecommunications facilities located in Chester, Clinton, East Lyme, Madison, Old Saybrook, and Waterford.

Dear Mr. Greene:

At a public meeting held on July 11, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify five of the proposed six existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies. The 15 Minor Lane, Waterford site will be presented at a future Council meeting after requested information is received.

The proposed modifications are to be implemented as specified here and in your notice dated July 2, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have 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 will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of 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.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/laf

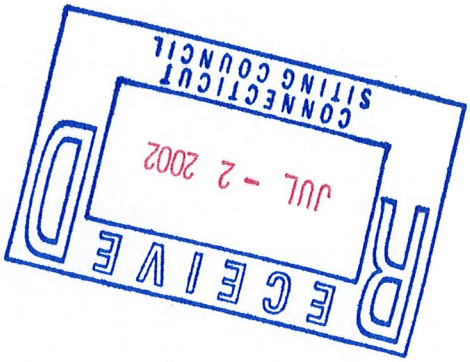
c: See attached list

I:\siting\em\cing\multiple\020702so\dc071102.doc

Honorable Martin L. Heft, First Selectman, Town of Chester
Larry Gilliam, Zoning Enforcement Officer, Town of Chester
Honorable James M. Mccusker, Jr., First Selectman, Town of Clinton
Thomas Lane, Zoning Enforcement Officer, Town of Clinton
Honorable Wayne L. Fraser, First Selectman, Town of East Lyme
L. Jean Davis, Town Planner, Town of East Lyme
Honorable Thomas S. Scarpati, First Selectman, Town of Madison
William H. McMinn, Zoning Enforcement Officer, Town of Madison
Honorable Michael A. Pace, First Selectman, Town of Old Saybrook
Christine Rosenthal, Town Planner, Town of Old Saybrook
Honorable Paul B. Eccard, First Selectman, Town of Waterford
Thomas V. Wagner, Planning Director, Town of Waterford

SNET Mobility, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7730
Fax: (860) 513-7190

Peter W. van Wilgen
Senior Manager – Construction



HAND DELIVERED

July 2, 2002

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

Re: SNET Mobility, LLC notice of intent to modify existing telecommunications facilities located in Waterford, East Lyme, Old Saybrook, Chester, Clinton and Madison

Dear Mr. Gelston:

In order to accommodate technological changes, implement E-911 capability and enhance system performance, SNET Mobility, LLC ("SNET" or "Cingular Wireless") plans to modify the antenna configurations at its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of each of the municipalities in which an affected cell site is located.

Attached are summary sheets detailing the planned changes, including power density calculations reflecting the change in the effect of Cingular's operations at each site. Also included is documentation of the structural sufficiency of each tower to accommodate the revised antenna configuration.

The changes to the facilities do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facilities will not be significantly changed or altered. Rather, the planned changes to the facilities fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will be unaffected. At almost all sites, new panel antennas approximately the same size will replace those previously installed. Tower mount amplifiers, approximately 5" x 9" x 13", will be added to the platform on which the panel antennas are mounted to enhance signal reception at the cell site. In addition, the mandated provision of E-911 capability will require installation of one LMU ("location measurement unit"), approximately 5 inches high, on either the tower, the equipment shelter or the ice bridge. One GPS receive-only antenna will be attached to the equipment shelter at each site. None of the modifications will extend the height of the tower.

2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound.

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

4. Radio frequency power density will increase due to use of additional channels broadcasting at higher power. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, Cingular Wireless respectfully submits that the proposed changes at the referenced sites constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7730 with questions concerning this matter. Thank you for your consideration.

Sincerely,

Peter W. van Wilgen

Peter W. van Wilgen
Senior Manager - Construction

Enclosures

CINGULAR WIRELESS
Antenna Modification

Site Address: 15 Minor Lane, Waterford
Docket No. 67

Tower Owner/Manager: Springwich Cellular Limited Partnership;
managed by SpectraSite Communications, Inc.

Antenna configuration Antenna center line – 153'

Current and/or approved: 9 Allgon 7120.16 or comparable

Planned: 9 CSS DUO4-8670 or comparable
6 tower mount amplifiers
1 LMU (at 38.25')

Power Density:

Calculations for Cingular's current operations at the site indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 5.0% of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density for Cingular's planned operations would be approximately 7.1%, or an additional 2.1% of the standard.

Cingular Current

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET	153	880 - 894	19	100	0.0292	0.5867	5.0

Cingular Planned

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET TDMA	153	880 - 894	16	100	0.0246	0.5867	4.2
SNET GSM	153	880 - 894	2	296	0.0091	0.5867	1.5
SNET GSM	153	1930 - 1935	2	427	0.0131	1.0000	1.3
Total							**7.1%**

Structural information: Please see attached.

SpectraSite

RE: CT-0027 [Waterford]
Structural Evaluation of 152' Monopole
15 Minor Lane
Waterford, CT 06385
New London County

Date: *May 15, 2002*

SpectraSite Engineering has performed a *Level 1 evaluation*[1] for the above-noted tower. The evaluation was based on the requirements of the TIA/EIA-222-F Standard for a basic wind speed of **85 mph** without ice and 75% of the wind load with ½" radial ice.

Table 1. Existing and Proposed Antennas

ELEVATION *(Ft-AGL)*	ANTENNA	CARRIER	COAX*	NOTES
158 153 153	(1) Celwave 3167A (1) 3 Element Yagi (9) Allgon 7120.16.05.00 on Platform Mount with Handrails	Cingular	(1) 7/8" (1) ½" (12) 1-5/8"	Remove Existing
158 153 153 153	(1) Celwave 3167A (1) 3 Element Yagi (9) CSS DUO4-8670 (6) CSS ADC Amplifiers on Platform Mount with Handrails	Cingular	(1) 7/8" (1) ½" (12) 1-5/8"	Proposed Replacement
38.25	(1) Nokia CS72187.01 on Standoff Mount	Cingular	(1) ½"	Proposed

Coax installed inside monopole.

The subject tower and foundation are ***adequate*** to support the above stated loads and ***in conformance*** with the requirements of TIA/EIA-222-F Standard.

The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in Table 1.

Should any questions arise concerning this report please contact the undersigned.

Raphael Mohamed, *P. Eng.*
Project Engineer

06-13-2002

Calvin J. Payne, *P.E.*
Chief Engineer

1 *Level 1 evaluation* means:
- the applied (existing and proposed) loads (Table 1) on the tower are compared to the original design loads,
- the design wind criteria is compared to the recent code requirements.

CINGULAR WIRELESS
Antenna Modification

Site Address: 2 Scott Road, East Lyme
Docket No. 67

Tower Owner/Manager: Springwich Cellular Limited Partnership;
managed by SpectraSite Communications, Inc.

Antenna configuration Antenna center line – 151'

Current and/or approved: 10 Swedcom ALP 110 11

Planned: 10 CSS DUO4-8670 or comparable
9 tower mount amplifiers
1 LMU (at 38.5)

Power Density:

Calculations for Cingular's current operations at the site indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 5.1% of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density for Cingular's planned operations would be approximately 7.2%, or an additional 2.1% of the standard.

Cingular Current

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET	151	880 - 894	19	100	0.0300	0.5867	5.1

Cingular Planned

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET TDMA	151	880 - 894	16	100	0.0252	0.5867	4.3
SNET GSM	151	880 - 894	2	296	0.0093	0.5867	1.6
SNET GSM	151	1930 - 1935	2	427	0.0135	1.0000	1.3
Total							7.2%

Structural information: Please see attached.

SpectraSite

RE: CT-0026 [East Lyme]
Structural Evaluation of 154' Monopole
2 Scott Road
East Lyme, CT 06333
New London County

Date: *May 15, 2002*

SpectraSite Engineering has performed a *Level 1 evaluation*[1] for the above-noted tower. The evaluation was based on the requirements of the TIA/EIA-222-F Standard for a basic wind speed of **85 mph** without ice and 75% of the wind load with ½" radial ice.

Table 1. Existing and Proposed Antennas

ELEVATION *(Ft-AGL)*	ANTENNA	CARRIER	COAX*	NOTES
157 151 151	(1) 5' Omni (1) Yagi (10) Swedcom ALP 11011 on Platform Mount with Handrails	Cingular	(1) 7/8" (1) ½" (10) 1-1/4"	Remove Existing
157 151 151 151	(1) 5' Omni (1) Yagi (10) CSS DUO4-8670 (9) CSS ADC Amplifiers on Platform Mount with Handrails	Cingular	(1) 7/8" (1) ½" (10) 1-1/4"	Proposed Replacement
38.5	(1) Nokia CS72187.01 on Standoff Mount	Cingular	(1) ½"	Proposed

Coax installed inside monopole.

The subject tower and foundation are ***adequate*** to support the above stated loads and ***in conformance*** with the requirements of TIA/EIA-222-F Standard.

The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in Table 1.

Should any questions arise concerning this report please contact the undersigned.

STATE OF CONNECTICUT
CALVIN J. PAYNE
No. 21060
LICENSED PROFESSIONAL ENGINEER
06-13-2002

Raphael Mohamed, *P. Eng.*
Project Engineer

Calvin J. Payne, *P.E.*
Chief Engineer

1 *Level 1 evaluation* means:
- the applied (existing and proposed) loads (Table 1) on the tower are compared to the original design loads,
- the design wind criteria is compared to the recent code requirements.

CINGULAR WIRELESS
Antenna Modification

Site Address: 170 Ingham Hill Road, Old Saybrook
Docket No. 51

Tower Owner/Manager: Springwich Cellular Limited Partnership;
managed by SpectraSite Communications, Inc.

Antenna configuration Antenna center line – 154'

Current and/or approved: 9 Allgon 7120.16 or comparable

Planned: 9 CSS DUO4-8670 or comparable
6 tower mount amplifiers
1 LMU (at 38.75')

Power Density:

Calculations for Cingular's current operations at the site indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 4.9% of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density for Cingular's planned operations would be approximately 7.0%, or an additional 2.1% of the standard.

Cingular Current

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET	154	880 - 894	19	100	0.0288	0.5867	4.9

Cingular Planned

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET TDMA	154	880 - 894	16	100	0.0243	0.5867	4.1
SNET GSM	154	880 - 894	2	296	0.0090	0.5867	1.5
SNET GSM	154	1930 - 1935	2	427	0.0129	1.0000	1.3
Total							7.0%

Structural information: Please see attached.

SpectraSite

RE: CT-0023 [Old Saybrook] Date: *May 21, 2002*

Structural Evaluation of 151' ITT Meyer Monopole
170 Ingham Hill Road
Old Saybrook, CT 06475
Middlesex County

SpectraSite Engineering has performed a *Level 1 evaluation*[1] for the above-noted tower. The evaluation was based on the requirements of the TIA/EIA-222-F Standard for a basic wind speed of **85 mph** without ice and 75% of the wind load with ½" radial ice.

Table 1. Existing and Proposed Antennas

ELEVATION *(Ft-AGL)*	ANTENNA	CARRIER	COAX*	NOTES
166	(1) Accelerator on Pole Mount	Voicestream	(6) 1-1/4" [I]	Existing
159 157 157 154	(1) 6' Omni (1) Andrew 26T-2400 (1) Yagi (9) Allgon 7120.16 on Platform Mount with Handrails	Cingular	(1) 7/8" (1) 7/8" (1) ½" (9) 1-1/4" [I]	Remove Existing
159 157 157 154 154	(1) 6' Omni (1) Andrew 26T-2400 (1) Yagi (9) CSS DUO4-8670 (6) CSS ADC Amplifiers on Platform Mount with Handrails	Cingular	(1) 7/8" (1) 7/8" (1) ½" (9) 1-1/4" [I]	Proposed Replacement
134 126 119	(3) Swedcom ALP-E9011-DIN (3) Swedcom ALP-E9011-DIN (3) Swedcom ALP-E9011-DIN on Pipe Mounts	Verizon	(9) 7/8" [I]	Existing
70	(1) FM Antenna on Standoff Mount	WMNR	(1) ½" [O]	Existing
38.75	(1) Nokia CS72187.01 on Standoff Mount	Cingular	(1) ½" [O]	Proposed
22	(1) Yagi on Standoff Mount	WMNR	(1) 3/8" [O]	Existing

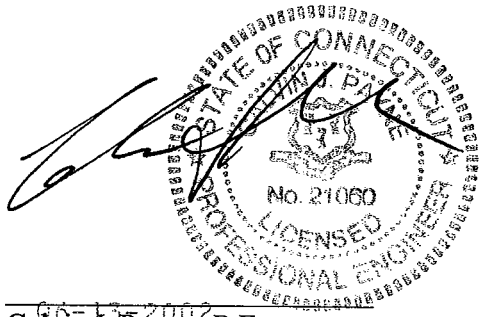
[O] / [I] represents coax installed outside or inside monopole, respectively.

1 *Level 1 evaluation* means:
- the applied (existing and proposed) loads (Table 1) on the tower are compared to the original design loads,
- the design wind criteria is compared to the recent code requirements.

The subject tower and foundation are ***adequate*** to support the above stated loads and ***in conformance*** with the requirements of TIA/EIA-222-F Standard.

The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in Table 1.

Should any questions arise concerning this report please contact the undersigned.



Raphael Mohamed, *P. Eng.*
Project Engineer

Calvin J. Payne, *P.E.*
Chief Engineer

CINGULAR WIRELESS
Antenna Modification

Site Address: Wig Hill Road, Chester
Docket No. 181

Tower Owner/Manager: Crown Atlantic Company LLC

Antenna configuration Antenna center line – 130'

Current and/or approved: 12 ALP 7120.16 or comparable

Planned: 9 CSS DUO4-8670 or comparable
9 tower mount amplifiers
1 diplexer
1 LMU (at 25')

Power Density:

Calculations for Cingular's current operations at the site indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 6.9% of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density for Cingular's planned operations would be approximately 9.8%, or an additional 2.9% of the standard.

Cingular Current

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET	130	880 - 894	19	100	0.0404	0.5867	6.9

Cingular Planned

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET TDMA	130	880 - 894	16	100	0.0340	0.5867	5.8
SNET GSM	130	880 - 894	2	296	0.0126	0.5867	2.1
SNET GSM	130	1930 - 1935	2	427	0.0182	1.0000	1.8
Total							9.8%

Structural information: Please see attached.

Site 2179

MAX ENGINEERING LLC
9000 Southwest Freeway, Suite 410
Houston, Texas 77074-1522

E-mail: hak@maxengr.com
Phone: (713) 776-0629
Fax: (713) 776-9599

To: Lincoln Erhard
Crown Castle International
500 W. Cummings Park, Suite 6500
Woburn, MA 01801

Subject: 150' Monopole at CT Chester Site, CT (BU#800515) Certification Letter

Dear Mr. Erhard,

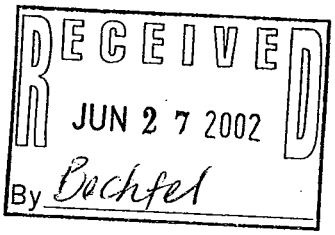
Per your request, Max Engineering has performed a structural analysis on the above referenced monopole tower. The analysis is performed for Cingular Wireless's proposed change-out of antennas at elevation 130'. The new proposed antennas are: (9) CSS DU04-8670 panel antennas with TMAs, 9"x6"x3" diplexers and E-911 antennas. The monopole tower is analyzed in accordance with TIA/EIA-222-F, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures for 90 mph basic design wind.

Based on the information received from Crown Castle and the analysis results documented in our report dated 6-21-02, the existing tower monopole with the existing plus the new proposed Cingular Wireless's change-out of antennas & appurtenances is found to be structurally adequate.

If you have any questions or comments, please do not hesitate to call me, fax me, write me or e-mail me at the number or address as shown in the letterhead.

Sincerely Yours

6/21/02



Hak-Fong Ma, PE
CT PE# 22402
(President, Max Engineering LLC)
Date: 06-21-2002

Section 3 Tower Loading Information

A) Existing Tower Loadings

Level	Antenna Center Elevation	Antenna Description, Count, (size) (Azimuth)	Feedline Size Count & Location	Mount Type	Carrier	Notes
148'	150'	(12) ALP 9212 antennas (52"x11.4"x11.4")	(12) 1+5/8"; Inside pole	Low Profile Platform	BAM	1
138'	140'	(9) DB980H90E-M antennas (60"x6.1"x2.8")	(9) 1+5/8"; Inside monopole	Low Profile Platform	Sprint	1
128'	130'	(12) ALP 7120.16 antennas (52"x6.3"x9.8")	(12) 1+5/8"; Inside monopole	Low Profile Platform	SNET /Cingular	1,2
116'	118'	(12) ALP 9212 antennas (52"x11.4"x11.4")	(12) 1+5/8"; Inside monopole	Low Profile Platform	Nextel	1
106'	109'	(6) Dapa 59212X antennas (70.3"x6.3"x2.7")	(6) 1+5/8"; Inside monopole	Low Profile Platform	Omnipoint	1
96'	96'	(6) Allgon 7250.03 antennas (52"x11.4")	(6) 1+5/8"; Inside monopole	Low Profile Platform	AT&T	

Note 1: Cable size and/or quantity is estimated. Insignificant impact on results.
Note 2: Antennas listed will be changed to the ones shown in Table B.

B) **Proposed Loadings**

Level	Center Elevation	Antenna Description, Count, (size), (Azimuth)	Feedline	Mount Type & (Carrier)	Status	Notes
130'	130'	(9) CSS DU04-8670 antennas (48"x14"x9"), (23,143,263)	(9) 1+5/8" ϕ; Inside pole	Low Profile Platform (Cingular)	Replace existing SNET antennas	
130'	130'	(9) TMA Model ADC 850/1900 (13.05"x9.17"x5.98")		Cingular	New	1
130'	130'	Diplexer (9'x6")		Cingular	New	1
25'	25'	Kathrein omni antenna (9"x1")	GPS	Cingular	New	

(1) TMAs and duplexters to be mounted on the same Cingular antenna platform

Max Engineering, LLC.
9000 Southwest Freeway, Suite 410
Houston, Texas 77074-1522
Telephone (713) 776-0629

CINGULAR WIRELESS
Antenna Modification

Site Address: 48 Cow Hill Road, Clinton
Docket No. 148

Tower Owner/Manager: Crown Atlantic Company LLC

Antenna configuration Antenna center line – 190'

Current and/or approved: 12 ALP 9212 or comparable

Planned: 9 CSS DUO4-8670 or comparable
6 tower mount amplifiers
3 diplexers
1 LMU (at 25')

Power Density:

Calculations for Cingular's current operations at the site indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 3.2% of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density for Cingular's planned operations would be approximately 4.6%, or an additional 1.2% of the standard.

Cingular Current

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET	190	880 - 894	19	100	0.0189	0.5867	3.2

Cingular Planned

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET TDMA	190	880 - 894	16	100	0.0159	0.5867	2.7
SNET GSM	190	880 - 894	2	296	0.0059	0.5867	1.0
SNET GSM	190	1930 - 1935	2	427	0.0085	1.0000	0.9
Total							4.6%

Structural information: Please see attached.

ALL-POINTS TECHNOLOGY CORPORATION, P.C.

June 24, 2002

Crown Castle Atlantic
500 West Cummings Park
Suite 3400
Woburn, MA 01801

Attn: Lincoln Erhard
Re: Cingular Wireless Antenna Change
212' ROHN SSMW Tower
Clinton, Connecticut
BU #806363

Dear Lincoln,

I am writing with regard to Cingular Wireless' proposed antenna changes to be installed on the 212' ROHN SSMW tower located at 48 Cow Hill Road in Clinton, Connecticut. I evaluated the tower in accordance with EIA/TIA-222-F, *Structural Standards for Steel Antenna Towers and Antenna Supporting Structures*. My evaluation consisted of re-analysis of the tower with the proposed replacement antennas and appurtenances.

According to information provided by Crown Castle, antenna loading consists of the following:

Antenna	Elev.	Mount	Coax.
Beacon	212'	Top plate	1" conduit
(12) ALP9212 panels	206'	(3) 15' sector mounts	(12) 1-5/8"
(9) DB980H90 panels	195'	(3) 15' sector mounts	(9) 1-5/8"
(9) CSS DU04-8670 panels; (6) ADC 850/1900 TMAs and (3) ADC Diplexers	190'	(3) existing 15' sector mounts	(9) existing 7/8"
(12) ALP7184 panels	180'	(3) 15' sector mounts	(12) 1-5/8"
(12) ALP9212 panels	170'	(3) 15' sector mounts	(12) 1-1/4"
(2) Celwave PD1142 whips	165'	(2) 4' sidearms	(2) 7/8"
(6) DAPA48010 & (3) Ericsson dishes	155'	(3) 15' sector mounts	(6) 1-5/8", (3) 3/8"
(2) Celwave PD1142 whips	145'	(2) 4' sidearms	(2) 7/8"
(3) APN199015 panels	135'	(3) 2' sidearms	(6) 1-5/8"
6' dish with radome	133'	Leg	EW-52
Celwave PD1142 whip	125'	4' sidearm	7/8"
Sidelights	110'	Leg	1" conduit
GPS	50'	4' sidearm	1/2"
Kathrein 738449 LMU omni	25'	2' sidearm (assumed)	1/2"

☐ 711 NORTH MOUNTAIN ROAD • NEWINGTON, CONNECTICUT 06111 • PHONE: 860-953-4444 • FAX: 860-953-1181
☒ 150 OLD WESTSIDE ROAD • NORTH CONWAY, NEW HAMPSHIRE 03860 • PHONE/FAX: 603-356-5214

My evaluation indicates the tower and foundation are capable of supporting Cingular's proposed antenna changes. TMAs and diplexers should be installed on the antenna mounting pipes behind the panel antennas.

We appreciate this opportunity to provide our services to you. Please call if you have any questions.

Sincerely,
All-Points Technology Corporation, P.C.

Robert E. Adair, P.E.
Principal

C:\Docs\Jobs\CT105391 Clinton 6-24-02 ltr.doc

CINGULAR WIRELESS
Antenna Modification

Site Address: Old Route 79, Madison
tower share

Tower Owner/Manager: SpectraSite Communications, Inc.

Antenna configuration Antenna center line – 130'

Current and/or approved: 9 Allgon 7120.16 or comparable

Planned: 9 CSS DUO4-8670 or comparable
6 tower mount amplifiers
1 LMU (at 37')

Power Density:

Calculations for Cingular's current operations at the site indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 6.9% of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density for Cingular's planned operations would be approximately 9.8%, or an additional 3.2% of the standard.

Cingular Current

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET	130	880 - 894	19	100	0.0404	0.5867	6.9

Cingular Planned

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
SNET TDMA	130	880 - 894	16	100	0.0340	0.5867	5.8
SNET GSM	130	880 - 894	2	296	0.0126	0.5867	2.1
SNET GSM	130	1930 - 1935	2	427	0.0182	1.0000	1.8
Total							9.8%

Structural information: Please see attached.

SpectraSite

RE: CT-1030 [Madison]
Structural Evaluation of 148' Monopole
Old Rte 79/8 Meetinghouse Lane
Madison, CT 06443
New Haven County

Date: *May 22, 2002*

SpectraSite Engineering has performed a *Level 1 evaluation*[1] for the above-noted tower. The evaluation was based on the requirements of TIA/EIA-222-F Standards for a basic wind speed of **85 mph** without ice and 75% of the wind load with ½" radial ice.

Table 1. Existing and Proposed Antennas

Elevation (Ft AGL)	Antenna	Carrier	Transmission Lines*	Notes
155 153 149	(1) 13' Dipole (2) 10' Omni (12) Swedcom ALP-9212N on Low Profile Platform Mount	Town of Madison Town of Madison Nextel	(1) 7/8" (2) 1-1/4" (12) 1-1/4"	Existing
140	(12) Allgon 7129.16 on Low Profile Platform Mount	BAM	(12) 1-5/8"	Proposed
130	(9) Allgon 7120.16 on Low Profile Platform Mount	Cingular	(9) 1-5/8"	Remove Existing
130	(9) CSS DUO4-8670 (6) CSS ADC Amplifiers on Low Profile Platform Mount	Cingular	(9) 1-5/8"	Proposed Replacement
120	(6) EMS RV90-17-02DP on Low Profile Platform Mount	Voicestream	(12) 1-5/8"	Existing
110	(6) Allgon 7250 on T-Arm Mounts	AT&T	(12) 7/8"	Proposed
37	(1) Nokia CS72187.01 on Standoff Mount	Cingular	(1) ½"	Proposed

**Coax installed inside monopole.*

The subject tower, and it's foundation, are ***adequate*** to support the above stated loads and ***in conformance*** with the requirements of TIA/EIA-222-F Standard.

The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in Table 1.

Please do not hesitate to give me a call if you have any questions or concerns.

Raphael Mohamed, *P. Eng.*
Project Engineer

06-13-2002
Calvin J. Payne, *P.E.*
Chief Engineer

1 *Level 1 evaluation* means:
- the applied (existing and proposed) loads (Table 1) on the tower are compared to the original design loads,
- the design wind criteria is compared to the recent code requirements.

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

July 9, 2002

Honorable Paul B. Eccard
First Selectman
Town of Waterford
Town Hall
15 Rope Ferry Road
Waterford, CT 06385

RE: **EM-CING-026-027-045-076-106-152-020702** - SNET Mobility, LLC notice of intent to modify existing telecommunications facilities located in Chester, Clinton, East Lyme, Madison, Old Saybrook, and Waterford.

Dear Mr. Eccard:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for July 11, 2002, at 1:30 p.m. in Hearing Room One, 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

Hi Paul!

SDP/laf

Enclosure: Notice of Intent

c: Thomas V. Wagner, Planning Director, Town of Waterford

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

July 9, 2002

Honorable Michael A. Pace
First Selectman
Town of Old Saybrook
302 Main Street
Old Saybrook, CT 06475

RE: **EM-CING-026-027-045-076-106-152-020702** - SNET Mobility, LLC notice of intent to modify existing telecommunications facilities located in Chester, Clinton, East Lyme, Madison, Old Saybrook, and Waterford.

Dear Mr. Pace:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for July 11, 2002, at 1:30 p.m. in Hearing Room One, 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/laf

Enclosure: Notice of Intent

c: Christine Rosenthal, Town Planner, Town of Old Saybrook

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

July 9, 2002

Honorable Thomas S. Scarpati
First Selectman
Town of Madison
Madison Town Campus
8 Campus Drive
Madison, CT 06443-2563

RE: **EM-CING-026-027-045-076-106-152-020702** - SNET Mobility, LLC notice of intent to modify existing telecommunications facilities located in Chester, Clinton, East Lyme, Madison, Old Saybrook, and Waterford.

Dear Mr. Scarpati:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for July 11, 2002, at 1:30 p.m. in Hearing Room One, 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/laf

Enclosure: Notice of Intent

c: William H. McMinn, Zoning Enforcement Officer, Town of Madison

I:\siting\em\cing\multiple\020702so\scarpati.doc

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

July 9, 2002

Honorable Wayne L. Fraser
First Selectman
Town of East Lyme
Town Hall
108 Pennsylvania Avenue
P. O. Box 519
Niantic, CT 06357

RE: **EM-CING-026-027-045-076-106-152-020702** - SNET Mobility, LLC notice of intent to modify existing telecommunications facilities located in Chester, Clinton, East Lyme, Madison, Old Saybrook, and Waterford.

Dear Mr. Fraser:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for July 11, 2002, at 1:30 p.m. in Hearing Room One, 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/laf

Enclosure: Notice of Intent

c: L. Jean Davies, Town Planner, Town of East Lyme

f:\siting\cm\cing\multiple\020702so\eastlyme.doc

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

July 9, 2002

Honorable James M. Mccusker, Jr.
First Selectman
Town of Clinton
54 East Main Street
Clinton, CT 06413

RE: **EM-CING-026-027-045-076-106-152-020702** - SNET Mobility, LLC notice of intent to modify existing telecommunications facilities located in Chester, Clinton, East Lyme, Madison, Old Saybrook, and Waterford.

Dear Mr. Mccusker:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for July 11, 2002, at 1:30 p.m. in Hearing Room One, 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/laf

Enclosure: Notice of Intent

c: Thomas Lane, Zoning Enforcement Officer, Town of Clinton

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

July 9, 2002

Honorable Martin L. Heft
First Selectman
Town of Chester
Town Office Building
65 Main Street
P.O. Box 328
Chester, CT 06412-0328

RE: **EM-CING-026-027-045-076-106-152-020702** - SNET Mobility, LLC notice of intent to modify existing telecommunications facilities located in Chester, Clinton, East Lyme, Madison, Old Saybrook, and Waterford.

Dear Mr. Heft:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for July 11, 2002, at 1:30 p.m. in Hearing Room One, 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/laf

Enclosure: Notice of Intent

c: Larry Gilliam, Zoning Enforcement Officer, Town of Chester

I:\siting\em\cing\multiple\020702so\heft.doc