# South and the second se

# 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 www.ct.gov/csc

December 19, 2005 Steven Levine

Steven Levine
Real Estate Consultant
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: EM-CING-003-051206 - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at Knowlton Hill Road, Ashford, Connecticut.

Dear Mr. Levine:

At a public meeting held on December 14, 2005, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated December 6, 2005, including the placement of all necessary equipment and shelters within the tower compound. 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. 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. Please be advised that the validity of this action shall expire one year from the date of this letter. 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.

**Vory** truly yours

Pamela B. Katz, P.E.

Chairman

PBK/laf

c: The Honorable Ralph H. Fletcher, First Selectman, Town of Ashford Richard Dziadus, Zoning Enforcement Officer, Town of Ashford Christine Farrell, T-Mobile Christopher B. Fisher, Esq., Cuddy & Feder LLP David Vivian, Site Development Manager, National Grid Communications, Inc.



# ORIGINAL





New Cingular Wireless PCS, LLC 500 Enterprise Drive Rocky Hill, Connecticut 06067-3900

Phone: (860) 513-7636 Fax: (860) 513-7190

December 6, 2005

EM-CING-003-051206

Ms. Pam Katz, Chairman, and
Members of the Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051



CONNECTICUT SITING COUNCIL

Re: Notice of Exempt Modification – Existing National Grid Communications Telecommunications Tower Facility off Knowlton Hill Road, Ashford, Connecticut

Dear Chairman Katz and Members of the Council:

New Cingular Wireless PCS, LLC ("Cingular") intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower off Knowlton Hill Road in Ashford, Connecticut. Please accept this letter as notification to the Council, 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 is being sent to the 1<sup>st</sup> Selectman of Ashford.

#### **Existing Facility**

The Ashford facility is located about 3½ miles northeast of the intersection of US Highway 44 and CT Route 195, and approximately ¼ mile south of Hwy 44 off Knowlton Hill Road. Site coordinates (NAD83) are N 41° 33' 52.5" and W 72° 15' 05.2"

The facility is owned and operated by National Grid Communications, Inc. ("GridCom"), 25 Research Drive, Westborough, MA 01582 under an agreement with the Knowlton family.

The Ashford facility was initially approved by the Council in Docket 291 on October 26, 2004.

GridCom is currently building the approved 150 foot monopole<sup>1</sup> inside a 75 ft x 75 ft fenced compound. T-Mobile will also operate telecommunications equipment at the facility.

#### **Proposed Modifications.**

Cingular operates under licenses issued by the Federal Communications Commission ("FCC") to provide cellular and PCS mobile telephone service in Windham County, which includes the area to be served by Cingular's proposed installation.

As shown on the attached drawings and as further described below, Cingular proposes to install up to six Powerwave 7770 dual band panel antennas or their equivalent, approximately 55 inches in height, with antenna centerlines at 137 feet above ground level. Cingular also proposes to place an 11' 6" x 20' prefabricated concrete equipment shelter inside the existing fence at the base of the tower.

Attached to this Notice are a site location map, a site plan, tower profile, and a structural design report that shows the tower is structurally capable of supporting the proposed Cingular telecommunications equipment

#### **Statutory Considerations**

The changes to the Ashford tower facility do not constitute a modification as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2) because they will not result in any substantial adverse environmental effect.

- 1. The height of the overall structure will be unaffected.
- 2. The proposed changes will not affect the property boundaries. All new construction will take place within the existing fence.
- 3. The proposed additions will not increase the noise level at the existing facility by six decibels or more.
- 4. Operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to or above the standard adopted by the State of Connecticut and the FCC. The "worst-case" exposure calculation in accordance with FCC OET Bulletin No. 65 (1997) for a point of interest at the base of the tower in relation to the operation of the proposed antenna array is as follows:

<sup>&</sup>lt;sup>1</sup> On December 2, 2005, Cingular withdrew its proposal to extend the tower to 180 feet.

Company	Centerline Height (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density <sup>†</sup> (mW/cm <sup>2</sup> )	Standard Limits (mW/cm²)	Percent of Limit
T-Mobile *	147	1935	8	240	0.0319	1.0000	3.19
Cingular	137	880-894	6	296	0.0340	0.5867	5.80
Cingular	137	1930-1935	3	427	0.0245	1.0000	2.45
TOTAL							11.4%

\* Power density parameters from Council records.

As the table demonstrates, the cumulative "worst-case" exposure would be approximately 11.4% of the ANSI/IEEE standard, as calculated for mixed frequency sites. Total power density levels resulting from Cingular's use of the tower facility would thus be within applicable standards.

For the foregoing reasons, Cingular respectfully submits that proposed changes at the Ashford site constitute an exempt modification under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7636 or Christopher Fisher, Esq. at (914) 761-1300 with questions concerning this notice. Thank you for your consideration in this matter.

Respectfully yours,

Steven Levine

Real Estate Consultant

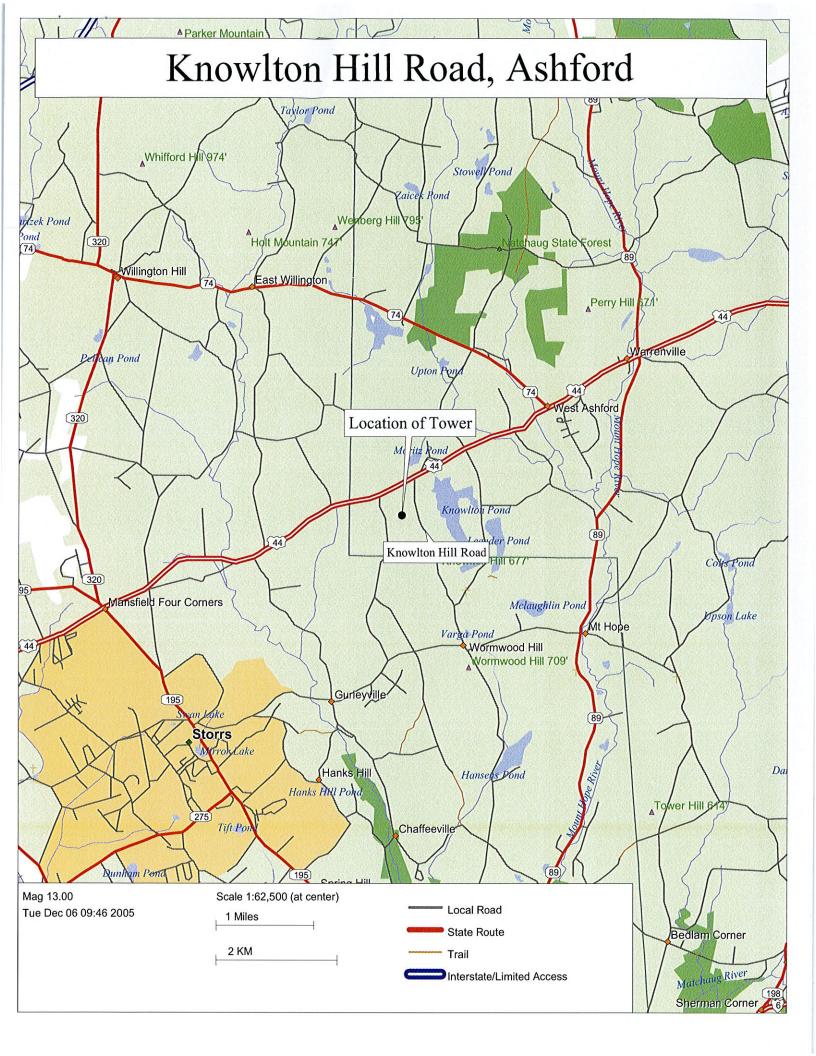
Enclosures

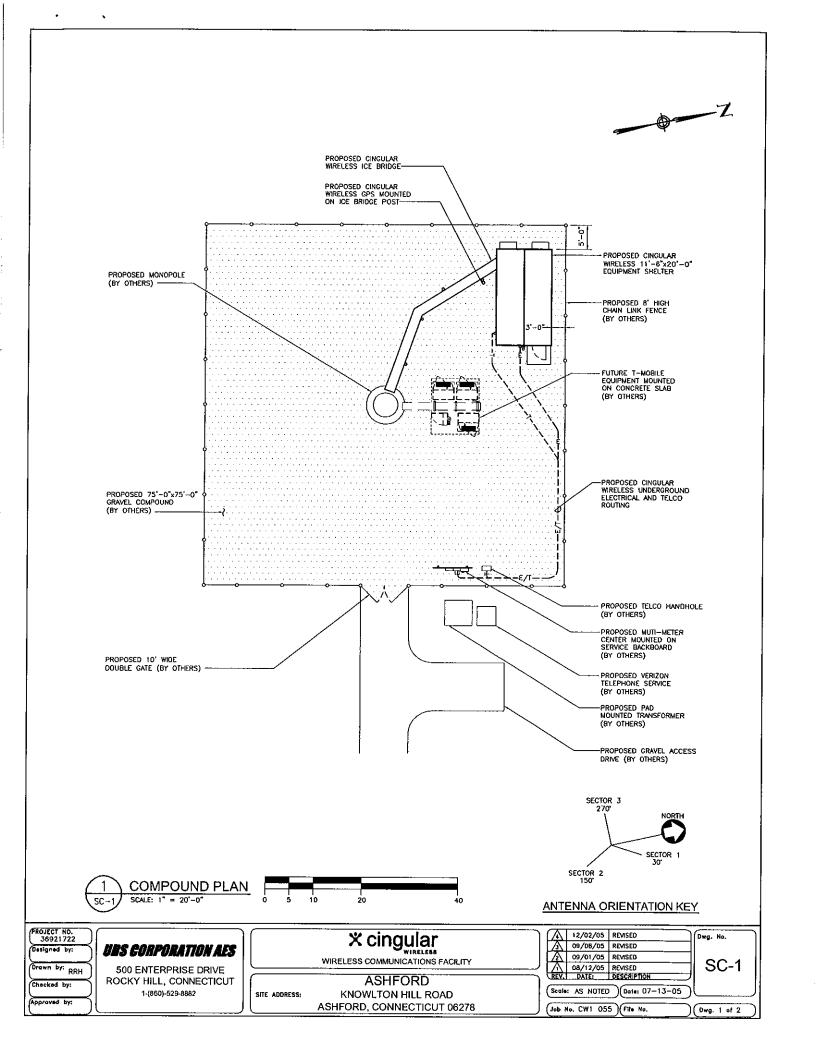
cc: Honorable Ralph H. Fletcher, 1<sup>st</sup> Selectman, Town of Ashford

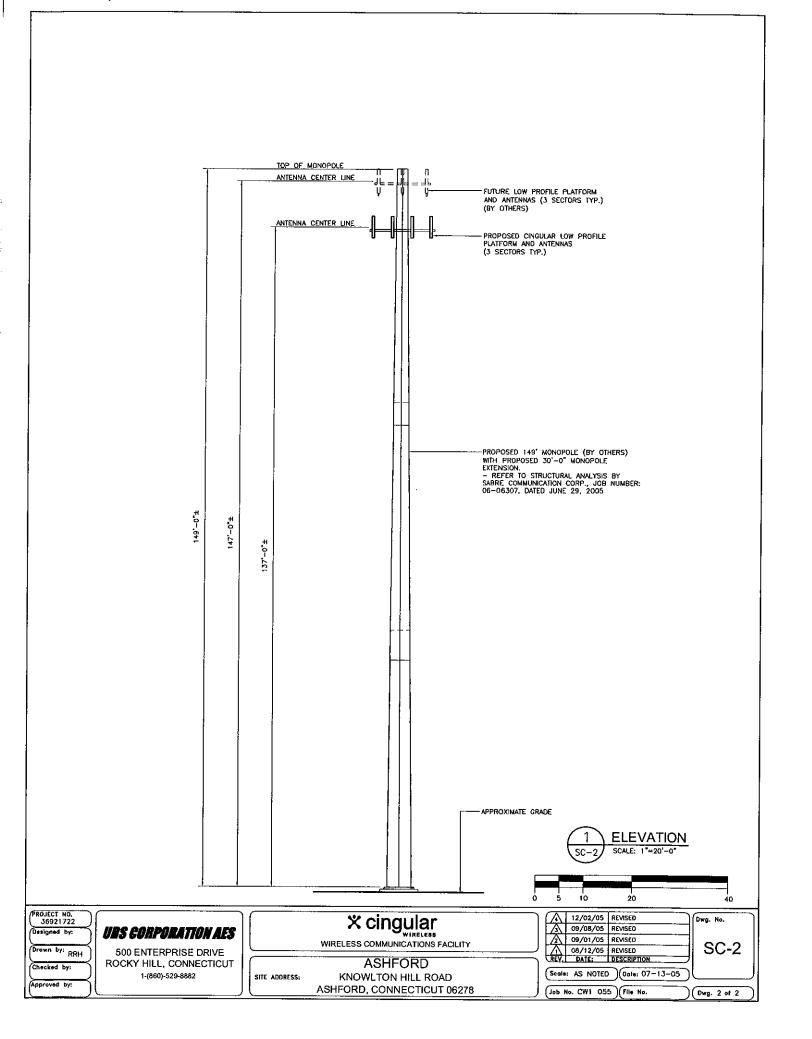
Michele G. Briggs, Manager of Real Estate

Christopher B. Fisher, Esq.

Please note that the standard power density equation provided by the Council in its memo of January 22, 2001 incorporates a ground reflection factor of 2.56 (i.e., the square of 1.6) as described in FCC OET Bulletin No. 65.







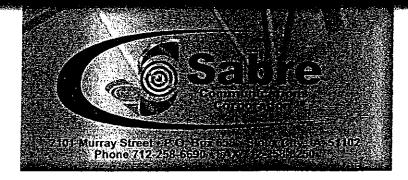
# Built to a Higher Standard

## **GRIDCOM**

150' Extn. 180' Sabre Model Monopole
Ashford, CT

Sabre Job Number 06-06307
STAMPED PERMIT DRAWINGS

YOUR SABRE
REPRESENTATIVE IS
Connie Carey
1-800-369-6690 EXT. 188





#### Structural Design Report

150' Extendible to 180' Monopole located at: Ashford, CT

prepared for: GRIDCOM

by: Sabre Communications Corporation ™

Job Number: 06-06307

June 29, 2005

Monopole Profile.1Foundation Design Summary.2Pole Calculation.C1-C10Foundation Calculations.A1-A2

Prepared by

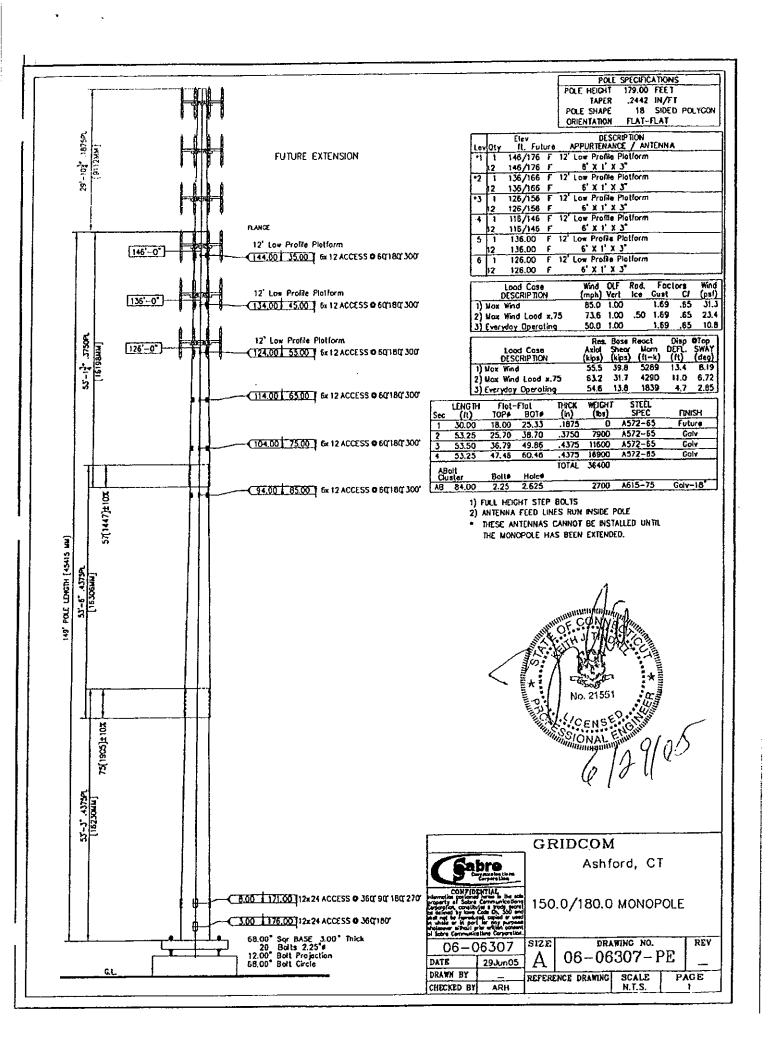
DRA

Checked by

JAV

Approved by

CENSES GILLER

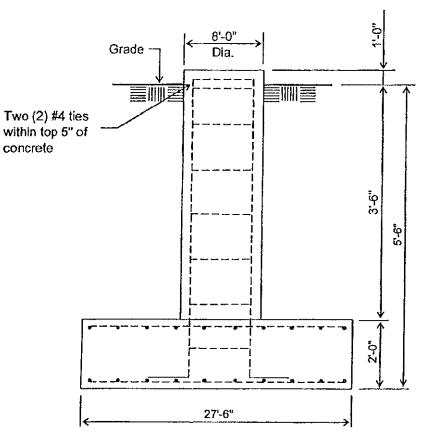




No.: 06-06307 Page: 2 Date: 6/29/05 By: ARH

#### Customer: GRIDCOM Site: Ashford, CT

150' Extendible to 180' Monopole at 85 mph Wind + 0.5 in. Ice per ANSI/TIA/EIA-222-F-1996. Antenna Loading per Page 1



Notes:

- 1). Concrete shall have a minimur 28-day compressive strength of 4000 PSI, in accordance with ACI 318-02
- 2). Rebar to conform to ASTM specification A615 Grade 60.
- 3). All rebar to have a minimum of 3" concrete cover.
- 4). All exposed concrete corners to be chamfered 3/4".
- 5). The foundation design is based on the geotechnical report by JGI Eastern, Inc., project no. 05360G, dated June 28, 2005.
- 6). See the geotechnical report for compaction requirements, if specified.

ELEVATION VIEW (64.4 Cu. Yds. each) (1 REQUIRED)

		Rebar Schedule per Pad and Pier
Γ		(38) #9 vertical rebar w/hooks at bottom
١	Pier	w/#4 ties, two within top 5" of top of pier then
ł		12" C/C
r	5 .	(47) #10 horizontal rebar evenly spaced each
1	Pad	way top and bottom (188 Total)

Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Sabre Communications

Corporation.





New Cingular Wireless PCS, LLC

500 Enterprise Drive

Rocky Hill, Connecticut 06067-3900

Phone: (860) 513-7636 Fax: (860) 513-7190

December 6, 2005

Honorable Ralph H. Fletcher

1<sup>st</sup> Selectman, Town of Ashford
Knowlton Memorial Town Hall, 25 Pompey Hollow Road
Ashford, Connecticut 06278

Re: Notice of Exempt Modification – Existing National Grid Communications
Telecommunications Tower Facility off Knowlton Hill Road, Ashford, Connecticut

Dear Mr. Fletcher:

New Cingular Wireless PCS, LLC ("Cingular") intends to install telecommunications antennas and associated equipment at an existing multicarrier telecommunications tower off Knowlton Hill Road in Ashford, Connecticut.

The facility is owned and operated by National Grid Communications, Inc. ("GridCom"), 25 Research Drive, Westborough, MA 01582.

A Notice of Exempt Modification has been filed with the Connecticut Siting Council as required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73. Please accept this letter as notification to the Town of Ashford under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The attached letter fully sets forth the Cingular proposal. However, if you have any questions or require any further information on the plans for the site or the Siting Council's procedures, please contact the undersigned or Mr. Derek Phelps, Executive Director of the Connecticut Siting Council, at (860) 827-2935.

Sincerely,

Steven Levine

Real Estate Consultant

Enclosure



#### 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 www.ct.gov/csc

December 7, 2005

The Honorable Ralph H. Fletcher First Selectman Town of Ashford Knowlton Memorial Town Hall 25 Pompey Hollow Road P O Box 38 Ashford, CT 06278

RE: EM-CING-003-051206 - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located off Knowlton Hill Road, Ashford, Connecticut.

Dear Mr. Fletcher:

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 December 14, 2005 at 1.30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by noon on December 14, 2005.

Thank you for your cooperation and consideration.

S. Derek Phelps

Executive Director

SDP/ap

Enclosure: Notice of Intent

c: Richard Dziadus, Zoning Enforcement Officer, Town of Ashford





#### CONNECTICUT SITING COUNCIL

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

October 4, 2000

Kenneth C. Baldwin Robinson & Cole 280 Trumbull Street Hartford, CT 06103-3597

RE:

EM-VER-003-000912 - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located 353 Pumpkin Hill Road, Ashford, Connecticut. (Docket No.43)

Dear Attorney Baldwin:

At a public meeting held on Monday, October 2, 2000, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated September 12, 2000. 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. 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 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.

ery truly yours,

Mortimer A. Gelston

Chairman

MAG/RKE/laf

 e: Honorable John M. Zulick, First Selectman, Town of Ashford Sandy M. Carter, Verizon Wireless Raymond Kowalinski, Regional Vice President-Technical Operations, Charter Communications

# ROBINSON & COLE LLP

HARTFORD • STAMFORD • GREENWICH • NEW YORK • BOSTON

LAW OFFICES

280 Trumbull Street Hartford, CT 06103-3597 860-275-8200 Fax 860-275-8299

Kenneth C. Baldwin 860-275-8345 Internet: kbaldwin@rc.com

September 12, 2000

EM-VER-003-000912

Via Hand Delivery

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

Re:

Notice of Exempt Modification Siting Council Docket No. 43 353 Pumpkin Hill Road Ashford, Connecticut RECEIVED

SEP 12 2000

CONNECTICUT

Dear Mr. Rinebold:

On June 18, 1984, the Siting Council granted Tele-Media Company of Northeastern Connecticut a Certificate of Environmental Compatibility and Public Need ("Certificate") for the construction of a community antenna television (CATV) tower and related facility on property located at 353 Pumpkin Hill Road in Ashford, Connecticut (the "Site"). The Site and tower are now owned and operated by Charter Communications. The Certificate authorized the construction, maintenance and operation of a 300-foot tower, a equipment shelter and a series of ground-mounted satellite dish antennas. On November 20, 1991, the Siting Council acknowledged a notice of exempt modifications to the Pumpkin Hill Road facility by Conn-2 RSA Partnership (Metro Mobile), now Cellco Partnership d/b/a Verizon Wireless ("Cellco") permitting the installation of four (4) whip antennas at the 250-foot level on the tower and an equipment building near the base of the tower. As a part of its on-going system performance improvement plan, Cellco now intends to remove the omni-directional whip antennas replacing them with nine (9) panel-type antennas at the height. No modifications are proposed to any ground-mounted equipment or structures.

Please accept this letter of notification pursuant to R.C.S.A. § 16-50j-73, for construction 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 Ashford First Selectman, John M. Zulick.

# ROBINSON & COLE LLP

Mr. Joel M. Rinebold September 12, 2000 Page 2

The planned modifications to the Pumpkin Hill Road facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

- 1. The proposed modification will not increase the overall height of the existing tower. Cellco's new panel antennas will be mounted at the 250-foot level on the existing 300-foot tower.
- 2. The installation of Cellco's panel antennas on the tower, does not effect any ground level equipment and therefore will not require an extension of the site boundaries.
- 3. The proposed antenna modification will not increase the noise levels at the existing facility by six decibels or more.
- 4. The operation of the new panel antennas will not increase the total radio frequency (RF) power density at the Site to a level at or above the ANSI/FCC standards. The "worst case" RF power density calculation for Cellco antennas would be 0.0109 mW/cm² or 1.87% of the FCC standard. In general, the changes proposed in Ashford will result in a decrease in power density predictions since sectorization restricts RF channel transmission to less than a full 360° pattern and reduces effective radiated power to approximately one-third of the omnidirectional values. It should be noted, however, that the percentage of the ANSI/FCC standard reflects a higher number than that shown in Cellco's 1991 filing which predates the 1992 revisions to the ANSI standard. Because the effect of the change in antenna configuration is to decrease the overall power density, no updated calculations have been performed for other uses at the Site.

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

Sincerely,

Kenneth C. Baldwin

KCB/kmd

cc: John M. Zulick, Ashford First Selectman Sandy M. Carter



#### CONNECTICUT SITING COUNCIL

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

September 27, 2000

Honorable John M. Zulick First Selectman Town of Ashford Knowlton Memorial Town Hall 25 Pompey Hollow Road P. O. Box 38 Ashford, CT 06278

RE:

EM-VER-003-000912 - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located 353 Pumpkin Hill Road, Ashford, Connecticut. (Docket No.43)

Dear Mr. Zulick:

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 October 2, 2000, at 2:00 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/RKE/grg

Enclosure: Notice of Intent



#### 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 www.ct.gov/csc

March 5, 2005

Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103-3597

RE: EM-VER-003-050218 - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 353 Pumpkin Hill Road, Ashford, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on March 3, 2005, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated February 18, 2005 and additional information received on March 3, 2005, including the placement of all necessary equipment and shelters within the tower compound. 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. 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 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,

Pamela B. Katz, P.E.

Chairman

PBK/laf

c: The Honorable Ralph H. Fletcher, First Selectman, Town of Ashford Richard Dziadus, Zoning Enforcement Officer, Town of Ashford Christopher B. Fisher, Esq., Cuddy & Feder LLP Charter Cable Communications

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### ROBINSON & COLE LLP

KENNETH C. BALDWIN

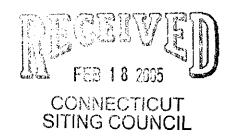
280 Trumbull Street Hartford, CT 06103-3597 Main (860) 275-8200 Fax (860) 275-8299 kbaldwin@rc.com Direct (860) 275-8345

EM-VER-003-050218

February 18, 2005

#### Via Hand Delivery

S. Derek Phelps Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051



Re: Notice of Exempt Modification – Antenna Swap 353 Pumpkin Hill Road Ashford, Connecticut

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains a wireless telecommunications facility on an existing tower owned Charter Communications at 353 Pumpkin Hill Road in Ashford. This facility consists of twelve (12) panel-type cellular antennas at the 240-foot level of the 300-foot tower. Equipment associated with the antennas is located in a shelter near the base of the tower.

The Connecticut Siting Council ("the Council") approved Cellco's shared use of the Pumpkin Hill Road facility in EM-VER-003-000912. Cellco now intends to modify its facility by replacing six (6) cellular antennas with six (6) PCS antennas at the same 240-foot level on the tower. Attached behind <u>Tab 1</u> are specifications for the existing cellular antennas and the proposed PCS antennas for the Pumpkin Hill Road facility.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction 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 Ashford First Selectman, Ralph H. Fletcher.

The planned modifications to the Pumpkin Hill Road facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).



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HART1-1237178-1

## ROBINSON & COLE LLP

S. Derek Phelps February 18, 2005 Page 2

- 1. The proposed modifications will not result in any increase in the overall height of the existing structure. Cellco's replacement antennas will be mounted at the same 240-foot level on the 300-foot tower.
- 2. The proposed modifications will not affect ground-mounted equipment and will not require the extension of the site boundaries.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more.
- 4. The proposed modifications will not result in radio frequency (RF) power density levels at the facility that exceed the Federal Communications Commission (FCC) adopted safety standard. Attached behind <u>Tab 2</u> is a new Power Density Calculation Table.

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Kenneth C. Baldwin

**Enclosures** 

cc: Ralph H. Fletcher, First Selectman

Sandy M. Carter



ί	,				

#### **DECIBEL'**

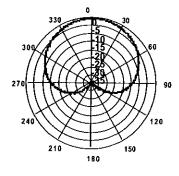
Base Station Antennas

#### **DB844H80E-XY**

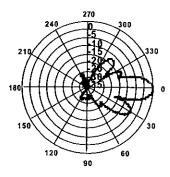
12.5 dBd, Directed Dipole Antenna 806-896, 870-960 MHz 806-896 MHz 870-960 MHz

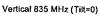
- Excellent azimuth roll-off, 15-20% reduction in cell to cell overlap
- Superior front to back ratio
- Low profile, low wind load for easy zoning
- Outstanding field record, with thousands of units deployed, world wide

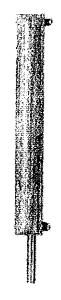




Horizontal 835 MHz (Tilt=0)







EL	ECTRICAL		ME	CHANICAL
Frequency (MHz):	806-896	870-960	Weight:	14 lbs (6.4 kg)
Polarization:	Vertical	Vertical	Dimensions (LxWxD):	48 X 6.5 X 8 in
Gain (dBd/dBi):	12.5/14.6	12.8/14.9	' '	(1219 X 165 X 203 mm)
Azimuth BW:	80°	80°	Max. Wind Area:	1.08 ft² (0.10 m²)
Elevation BW:	15°	15°	Max. Wind Load (@ 100mph):	59 lbf (262 N)
Beam Tilt:	0°	0°	Max. Wind Speed:	125 mph (201 km/h)
USLS* (dB):	>15	>15	Radiator Material:	Brass
Front-to-Back Ratio* (dB):	40	40	Reflector Material:	Aluminum
VSWR:	<1.5:1	<1.5:1	Radome Material:	ABS, UV Resistant
Impedance:	50 Ohms	50 Ohms	Mounting Hardware Material:	Galvanized Steel
Max łnput Power:	500 Watts	500 Watts	Connector Type:	7-16 DIN - Female (Back)
Lightning Protection:	DC Ground	DC Ground	Alt. Connectors:	N Type - Female
Opt Electrical Tilt:	6°	6°	Color:	Light Gray
			Standard Mounting Hardware:	DB380 Pipe Mount Kit, included
			Downtilt Mounting Hardware:	D85083, optional
			Opt. Mounting Hardware:	DB5084-AZ Azimuth Wall Mount



Andrew Corporation 8635 Stemmons Freeway Dalkas, Texas U.S.A 75247-3701 Tel: 214.631.0310 Fax: 214.631.4706 Toll Free Tel: 1.800.676.5342 Fax: 1.800.229.4706 www.andrew.com

Date: 4/23/2004
\* - Indicates Typical Values

# **DECIBEL®**Base Station Antennas

#### 948F85T2E-M

16.1 dBi, Directed Dipole Antenna 1850-1990 MHz

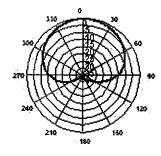
#### 1850-1990 MHz

MaxFill<sup>TM</sup>

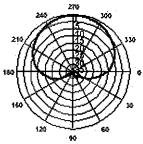
dB Director®

- Exceptional azimuth roll-off reducing soft hand-offs and improving capacity
- Excellent upper side lobe suppression
- Deep null filling below the horizon assures improved signal intensity
- Low profile appearance and low wind loading profile for easier zoning approvals





Azimuth 1850 MHz (Tilt=2)



---

270	50 50 120
210	150

Vertical 1850 MHz (Tilt=2)

Horizontal 1850 MHz (Tilt=2)				
ELECTRICAL		MECHANICAL		
Frequency (MHz): Polarization: Gain (dBd/dBi): Azimuth BW: Elevation BW: Beam Tilt: USLS* (dB): Null Fill* (dB): Front-to-Back Ratio* (dB):	1850-1990 Vertical 14/16.1 85° 8° 2° >18 15 40	Weight: Dimensions (LxWxD): Max. Wind Area: Max. Wind Load (@ 100mph): Max. Wind Speed: Radiator Material: Reflector Material: Radome Material:	8.5 lbs (3.9 kg) 48 X 3.5 X 7 in (1219 X 89 X 178 mm) 1.18 ft² (0.11 m²) 65 lbf (289 N) 125 mph (201 km/h) Low Loss Circuit Board Aluminum ABS, UV Resistant	
VSWR: IM Suppression - Two 20 Watt Carriers: Impedance: Max Input Power: Lightning Protection: Opt Electrical Tilt:	<1.33:1 -150 dBc 50 Ohms 250 Watts DC Ground 0°,4°,6°	Mounting Hardware Material: Connector Type: Color: Standard Mounting Hardware: Downtilt Mounting Hardware: Opt. Mounting Hardware:	Galvanized Steel 7-16 DIN - Female (Bottom) Light Gray DB390 Pipe Mount Kit, included DB5098, optional DB5094-AZ Azimuth Wall Mount	



Andrew Corporation 8635 Stemmons Freeway Dallas, Texas U.S.A 75247-3701 Tel: 214.631.0310

Fax: 214.631.4706 Toll Free Tel: 1.800.676.5342 Fax: 1.800.229.4706 www.andrew.com Date: 4/29/2004 \* - Indicates Typical Values

1				
	·			

Site Name: Ashford, CT Tower Height: 240 ft rad center

<u>ිරාහස්ටෙන</u>	Speriman Preprient	Number of Berns	টায়ুহ Per টিল্যাজ	নুৰ্বাজ্ঞানু	Distrince in	Grienie (g. Pover Densis	Vessmin Parmiseible Espositie	Profolo	
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	mW/cm^2) (mW/cm^2)	(%)	
Verizon	869	6	200	1800	240	0.0112	0.5793	1.94%	
Verizon	1900	3	200	009	240	0.0037	1	0.37%	
Total Percen	otal Percentage of Maxin	mum Permissible Exposure	oissible Ex	posure				2.31%	

\*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

MHz = Megahertz

mW/cm^2 = milliwatts per square centimeter ERP = Effective Radiated Power

Absolute worst case scenario, maximum values used.





#### 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 www.ct.gov/csc

February 22, 2005

The Honorable Ralph H. Fletcher First Selectman Town of Ashford 25 Pompey Hollow Road Ashford, CT 06278

RE: EM-VER-003-050218 - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 353 Pumpkin Hill Road, Ashford, Connecticut.

Dear Mr. Fletcher:

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 March 3, 2005 at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by March 2, 2005.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Pheips

Executive Director

SDP/cm

Enclosure: Notice of Intent

c: Richard Dziadus, Zoning Enforcement Officer, Town of Ashford



# **URS**

# Memorandum

Date:

March 3, 2005

To:

Rachel Mayo - Robinson and Cole

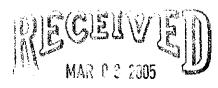
From:

Douglas J. Roberts, AIA

Subject:

**Verizon Wireless** 

353 Pumpkin Hill Road Ashford, Connecticut



CONNECTICUT SITING COUNCIL

#### Rachel

Per your request URS performed a structural evaluation for the 300' Guyed Tower located at 353 Pumpkin Hill Road in Ashford, Connecticut.

This task was to remove the 2 of the existing DB844H80 – XY antennas per sector, which have a 1.08 sq. ft wind area and a weight of 14 lbs. and replace them with 2 DB948F85T2 E-M antennas, which have a 1.18 sq. ft wind area and a weight of 8.5 lbs.

The antennas have approximately the same square feet of surface area and the minor additional surface area of the new proposed antennas are less that 0.0001% of additional loading on the existing tower.

The existing 300' guyed tower is capable of handling the additional loading of the new antennas

Please call if you have any additional Questions

Douglas J. Agberts, AIA

Sf. Project Manager Telecommunications

6 - 400 6 - 400

CC:

Sandy Cater - Verizon Wireless



CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov Internet: ct.gov/csc

March 9, 2009

Steven L. Levine Real Estate Consultant New Cingular Wireless PCS, LLC 500 Enterprise Drive Rocky Hill, CT 06067-3900

RE: EM-CING-003-090120 - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 353 Pumpkin Hill Road, Ashford, Connecticut.

Dear Mr. Levine:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated January 19, 2009, including the placement of all necessary equipment and shelters within the tower compound. 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. 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. Please be advised that the validity of this action shall expire one year from the date of this letter. 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 your for your attention and cooperation.

S.Derek Photos
Executive Director

SDP/MP/laf

c: The Honorable Ralph H. Fletcher, First Selectman, Town of Ashford Richard Dziadus, Zoning Enforcement Officer, Town of Ashford Charter Communications

CONNECTICUT SITING COUNCIL.
Affirmative Action / Equal Opportunity Employer

# EM-CING-003-090120







New Cingular Wireless PCS, LLC 500 Enterprise Drive Rocky Hill, Connecticut 06067-3900 Phone: (860) 513-7636 Fax: (860) 513-7190

Steven L. Levine Real Estate Consultant

#### **HAND DELIVERED**

ORIGINAL

January 19, 2009

Honorable Daniel F. Caruso, Chairman, and Members of the Connecticut Siting Council Connecticut Siting Council 10 Franklin Square New Britain, Connecticut 06051



Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 353 Pumpkin Hill Rd, Ashford (owner, Charter Communications)

Dear Chairman Caruso and Members of the Council:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") plans to modify the equipment configurations at many of 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 the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile (GSM) communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in AT&T's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be significantly changed or altered. Rather, the planned changes to the facility 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.
- 2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as may be noted in the attachments.
- 3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
- 4. Radio frequency power density may increase due to use of one or more GSM channel for UMTS transmissions. 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, New Cingular Wireless respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7636 with questions concerning this matter. Thank you for your consideration.

Sincerely,

Steven L. Levine

Real Estate Consultant

Attachments

#### **NEW CINGULAR WIRELESS Equipment Modification**

353 Pumpkin Hill Road, Ashford

Site Number 1068

Exempt Modification approved 4/90

**Tower Owner/Manager:** 

**Charter Communications** 

**Equipment Configuration:** 

**Guyed Lattice Tower** 

Current and/or Approved: Six whip antennas @ 204 ft AGL (per CSC database)

Six runs coax cable **Equipment Shelter** 

Planned Modifications:

Remove all existing antennas and coax

Install six Powerwave 7770 antennas (or equivalent) @ 225 ft

Install six TMA's and six diplexers @ 225 ft

Install twelve lines 1 5/8 inch coax

#### **Power Density:**

Worst-case calculations for existing wireless operations at the site indicate a radio frequency electromagnetic radiation power density, measured at ground level beside the tower, of approximately 15.4 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density following proposed modifications would be approximately 5 % of the standard.

#### **Existing**

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm²)	Standard Limits (mW/cm²)	Percent of Limit
Other Users *					·		2.31
AT&T TDMA *	204	880 - 894			0.0765	0.5867	13.04
TOTAL							15.4%

<sup>\*</sup> Per CSC records

#### Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm²)	Standard Limits (mW/cm²)	Percent of Limit
Other Users *							2.31
AT&T UMTS	225	880 - 894	1	500	0.0036	0.5867	0.61
AT&T GSM	225	1900 Band	2	427	0.0061	1.0000	0.61
AT&T GSM	225	880 - 894	4	296	0.0084	0.5867	1.43
Para Para Para Para Para Para Para Para							540%

<sup>\*</sup> Per CSC records

#### **Structural information:**

The attached structural analysis demonstrates that the tower has adequate structural capacity to accommodate the proposed modifications. (All-Points Technology Corp., 1/15/09)





New Cingular Wireless PCS, LLC

500 Enterprise Drive

Rocky Hill, Connecticut 06067-3900

Phone: (860) 513-7636 Fax: (860) 513-7190

Steven L. Levine Real Estate Consultant

January 19, 2009

Ralph H. Fletcher, 1<sup>st</sup> Selectman Town of Ashford Town Office Bldg. 5 Town Hall Road Ashford, CT 06278

Re: Telecommunications Facility – Pumpkin Hill Road

Dear Mr. Fletcher:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("AT&T") will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review AT&T's proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes AT&T's proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine

Real Estate Consultant

Enclosure



#### STRUCTURAL ANALYSIS REPORT 300' GUYED TOWER ASHFORD, CONNECTICUT

Prepared for Hudson Design Group, LLC

**AT&T Site #1068** 

January 15, 2009



APT Project #CT198760

# STRUCTURAL ANALYSIS REPORT of 300' GUYED TOWER ASHFORD, CONNECTICUT prepared for Hudson Design Group, LLC

#### **EXECUTIVE SUMMARY:**

All-Points Technology Corporation, P.C. (APT) performed a condition assessment and structural analysis of this 300-foot guyed tower. The analysis was performed for AT&T Mobility's proposed replacement of their existing three omnidirectional antennas currently installed at 226'with six Powerwave 7770 panel antennas, six LGP21401 tower-mounted amplifiers (TMAs), six LGP21901 diplexers, and six Powerwave 7020 remote control units (RETs).

Our analysis indicates the tower and foundation meet the requirements of the Connecticut State Building Code and EIA/TIA-222 with the proposed antenna changes.

Guy anchors could not be evaluated, as information on their design or construction were not available to APT.

#### INTRODUCTION:

A condition assessment and structural analysis was performed on the above-mentioned communications tower by APT for Hudson Design Group, LLC. The tower is located at 353 Pumpkin Hill Road in Ashford, Connecticut.

APT visited the tower site on December 16, 2008 to record information regarding physical and dimensional properties of the structure and its appurtenances. Robert O. Parrott climbed the structure in its entirety to compile data necessary to perform the structural analysis.

The structure is a 300-foot painted steel guyed tower of unknown manufacturer. The tower is guyed at six levels and utilizes torque arm guy attachments at the top three guy levels.

The analysis was performed in accordance with EIA/TIA-222-F using the following antenna inventory (proposed antenna changes shown in **bold** text):

Antenna	Elev.	Mount	Coax.
Beacon	300°	Top plate	1" conduit
Lightning rod	300'	Top plate	N.A.
16' omnidirectional whip	300'	Leg	1-5/8"
8' yagi	270'	Leg	1/2"
8' grid dish	270'	(2) 10' x 2" horiz.	1/2"
12' yagi	260'	12' x 3-1/2" pipe on leg	1/2"
6' grid dish	257'	(2) 9' x 2" horiz.	1/2"
12' yagi	248'	12' x 3-1/2" pipe on leg	1/2"
(6) DB844H90; (6) DB948F85 panels	240'	(3) 12' sector mounts	(12) 1-5/8"
(6) 7770, (6) TMAs, (6) diplexers, (6) RETs <sup>1</sup>	225'	(3) 12' sector mounts	(12) 1-5/8"
(2) 10' bedspring yagis	208'-218'	(3) 8' x 2-3/8" horiz.	1/2"
6' yagi	210'	Leg	1/2"
(3) 12' omnidirectional whips	195'-207'	(3) 6' sidearms	(3) 7/8"
6' omnidirectional whip	190'-196'	6' sidearm	1-1/4"
6' omnidirectional whip	186'-192'	6' sidearm	1/2"
12' omnidirectional whip	170'-182'	4' sidearm	7/8"
12' single dipole	180'	Leg	1/2"
6' grid dish	164'	2' sidearm	1/2"
6' yagi	157'	Leg	1/2"
6' yagi	154'	Leg	3/8"
(2) Obstruction lights	150'	Conduit across face	1" conduit
6' grid dish	150'	2' sidearm	1/2"
10' yagi	118'	Leg	1/2"
6' yagi	113'	(2) 10' x 2" horiz	1/2"
6' grid dish	110'	2' sidearm	1/2"
(2) 10' bedspring yagis	94'-104'	(2) 4' x 2-3/8" horiz.	3/8"
GPS	84'	18" standoff	1/2"
(2) anemometers	64'	6' x 2" horiz.	1/8"

<sup>&</sup>lt;sup>1</sup> Currently three 12' omnidirectional whips installed on 6' sidearms.

#### CONDITION ASSESSMENT:

• General Observations: The tower, a painted steel structure, appeared to be in good condition. No signs of movement or overstress of the tower were observed.

ì

- Legs: Leg members range from 2.5" standard to 2.5" extra-strong pipe and were assumed to be comprised of 50 ksi steel, typical for this type of structure. Leg members appeared to be in good condition.
- **Bracing:** Diagonal bracing members are 1-1/4" tube steel. Bracing and connections were visually observed to the maximum extent practicable. No defects were noted.
- Antenna Connections: Antenna mounting hardware was in good condition, with corrosion resistant hardware and galvanized members prevalent.
- Splice Connections: Observed splice bolts and connections were in good condition.
- Guy Cables and Hardware: Guy cables appeared to be in good condition. Torque arms and attachment hardware were in good condition.

### STRUCTURAL ANALYSIS:

### Methodology:

The structural analysis was done in accordance with TIA/EIA-222, Revision F (TIA), Structural Standards for Steel Antenna Towers and Antenna Supporting Structures; and the American Institute of Steel Construction (AISC), Manual of Steel Construction, Allowable Stress Design, Ninth Edition.

The analysis was conducted using an 85 mph fastest mile wind speed (equivalent to 105 mph 3-second gust) and one-half inch of radial ice over the structure and associated appurtenances. The TIA Standard requires a basic wind speed of 85 miles per hour for Windham County, Connecticut.

Two loading conditions were evaluated in accordance with TIA/EIA-222-F to determine tower capacity. The more demanding of the two cases is used to calculate tower capacity:

- Case 1 = Wind Load (without ice) + Tower Dead Load
- o Case 2 = 0.75 Wind Load (with ice) + Ice Load + Tower Dead Load

The TIA/EIA standard permits a one-third increase in allowable stresses for towers less than 700-feet tall. Allowable stresses of tower members were increased by one-third when computing the tower capacity values shown below.

### **Analysis Results:**

Analysis of the tower was conducted in accordance with the criteria outlined herein with antenna changes as previously described. The following table summarizes the results of the analysis based on stresses of individual leg and bracing members:

	Leg	Bracing
Elevation	Capacity	Capacity
280'-300'	30%	28%
260'-280'	48%	25%
240'-260'	49%	27%
220'-240'	75%	32%
200'-220'	76%	23%
180'-200'	65%	46%
160'-180'	96%	55%
140'-160'	81%	20%
120'-140'	73%	51%
100'-120'	82%	37%
80'-100'	82%	47%
60'-80'	64%	36%
40'-60'	81%	51%
20'-40'	95%	53%
0'-20'	93%	55%

### **Splice Bolts:**

Our calculations indicate all connection bolts are adequately sized.

### **Guy Cables:**

Our calculations indicate all existing guys meet the required safety factor.

### **Base Foundation and Guy Anchors:**

Evaluation of the existing guy anchors and base foundation was not performed, as information on their design or construction was not available to APT. Base reactions imposed with the antenna changes were calculated as follows:

<u>Location</u>	<u>Vertical</u>	<u>Horiz</u> ontal
Base:	131.8 kips	2.8 kips
Guy Anchor:	-43.8 kips	-86.2 kips

January 15, 2009 Page 5 APT Job #CT198760

### CONCLUSIONS AND RECOMMENDATIONS:

Our structural analysis indicates that the 300-foot guyed tower located at 353 Pumpkin Hill Road in Ashford, Connecticut meets the requirements of the Connecticut State Building Code with AT&T Mobility's proposed antenna changes.

Guy anchors could not be evaluated, as information on their design or construction was not available to APT.

### LIMITATIONS:

This report is based on the following:

- 1. Tower is properly installed and maintained.
- 2. All members are in new condition.
- 3. All required members are in place.
- 4. All bolts are in place and are properly tightened.
- 5. Tower is in plumb condition.
- 6. All tower members were properly designed, detailed, fabricated, and installed and have been properly maintained since erection.

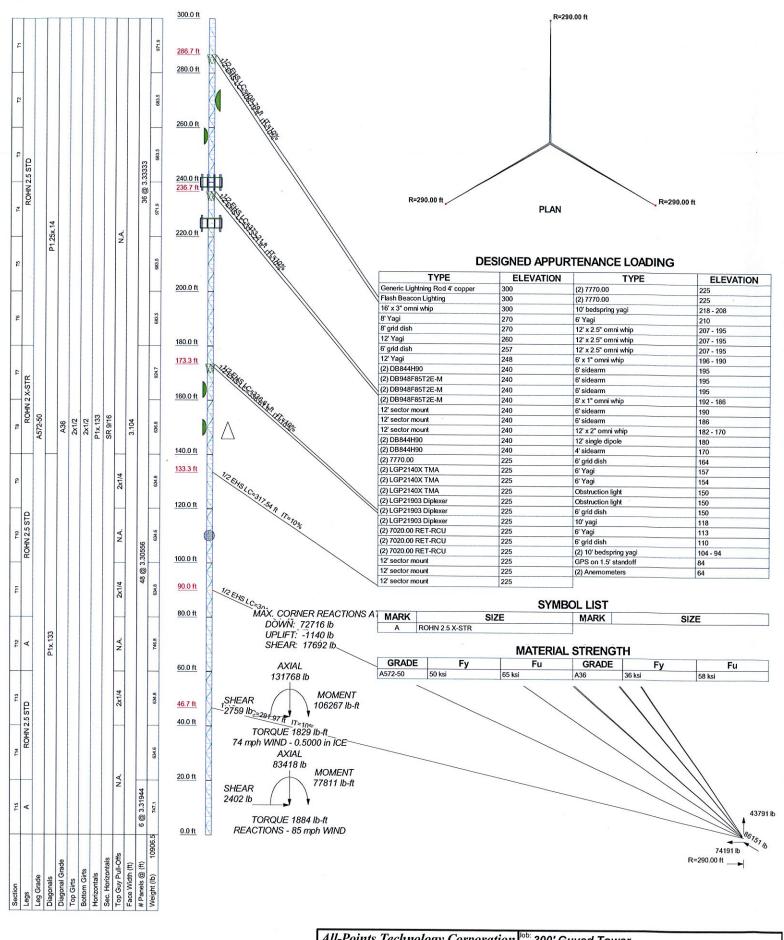
All-Points Technology Corporation, P.C. (APT) is not responsible for modifications completed prior to or hereafter which APT is not or was not directly involved. Modifications include but are not limited to:

- 1. Replacing or strengthening bracing members.
- 2. Reinforcing vertical members in any manner.
- 3. Adding or relocating torque arms or guys.
- 4. Installing antenna mounting gates or side arms.

APT hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon the information contained and set forth herein. If you are aware of any information which is contrary to that which is contained herein, or you are aware of any defects arising from the original design, material, fabrication and erection deficiencies, you should disregard this report and immediately contact APT. APT disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.

### Appendix A

Tower Schematic



All-Points Technology Corporation	<sup>Job:</sup> 300' Guyed Tower		
	Project: CT198760 Ashford		
North Conway, NH 03860	Client: HDG; AT&T Site #1068	Drawn by: Rob Adair	App'd:
	Code: TIA/EIA-222-F	Date: 01/15/09	Scale: NTS
FAX: (603) 356-5214	Path: C:/Documents and Settings/Rob Adair/My Document	slubbs/CT198760 Ashford/CT198760 Ashford e	Dwg No. E-1

# Daniel F. Caruso Chairman

### 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@ct.gov
Internet: ct.gov/csc

January 23, 2009

The Honorable Ralph H. Fletcher First Selectman Town of Ashford Knowlton Memorial Town Hall 5 Town Hall Road Ashford, CT 06278

RE: EM-CING-003-090120 - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 353 Pumpkin Hill Road, Ashford, Connecticut.

Dear Mr. Fletcher:

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.

If you have any questions or comments regarding this proposal, please call me or inform the Council by February 6, 2009.

Thank you for your cooperation and consideration.

d'Apperex Lucaba

Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Richard Dziadus, Zoning Enforcement Officer, Town of Ashford





### STATE OF CONNECTICUT

### CONNECTICUT SITING COUNCIL

136 Main Street, Suite 401 New Britain, Connecticut 06051 Phone: 827-7682

Gloria Dibble Pond Chairperson

COMMISSIONERS

Energy / Telecommunications

Peter G. Boucher Leslie Carothers

Hazardous Waste/Low-level Radioactive Waste

Frederick G. Adams Bernard R. Sullivan

COUNCIL MEMBERS

Harry E. Covey Mortimer A. Gelston Daniel P. Lynch, Jr. Paulann H. Sheets William H. Smith Colin C. Tait

Joel M. Rinebold Executive Director

Stanley J. Modzelesky Executive Assistant May 1, 1990

Peter J. Tyrrell, Esq. SNET Cellular, Inc. 227 Church Street New Haven, CT 06510

RE: SNET Cellular, Inc., Notice of Intent to Modify An Exempt Tower and Associated Equipment Owned by Tele-Media Compay of Northeastern Connecticut in the Town of Ashford, Connecticut.

Dear Attorney Tyrrell:

At a meeting held on April 30, 1990, the Connecticut Siting Council acknowledged your notice of intent to modify an exempt tower and associated equipment owned by Tele-Media Company of Northeastern Connecticut located in Ashford, Connecticut, pursuant to Section 16-50j-73 of the Regulations of State Agencies (RSA).

The proposed modifications are to be implemented as specified in you notices dated April 16 and 20, 1990. As proposed, the modifications are in compliance with the exception criteria specified in RSA 16-50j-72 as changes to an existing facility site that do not increase the tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary 6 decibels, and add radio frequency sending or receiving capability which increases the total radio frequency electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to Section 22a-162 of the Connecticut General Statutes.

The Council is pleased to note that the shared use of an existing tower serves the Council's long-term goal of protecting the public interest by avoiding proliferation of additional tower structures.

Please notify the Council upon completion of construction.

Very truly yours,

Gloria Dibble Pond

Gloria Delible Pad 10

Chairperson

GDP: JMR: bw

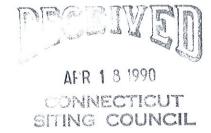
Southern New England Telephone 227 Church Street New Haven, Connecticut 06510 Phone (203) 771-7381



Peter J. Tyrrell Senior Attorney

April 16, 1990

Gloria Dibble Pond, Chairperson Connecticut Siting Council 136 Main Street, Suite 401 New Britain, Ct. 06051



Dear Honorable Chairperson Pond:

Enclosed please find a Notice of Intent to Modify an Exempt Tower and Associated Equipment owned by Tele-Media Company of Northeastern Connecticut located in Ashford, Connecticut by SNET Cellular, Inc. Twenty (20) copies are included.

Please record my name as counsel for SNET Cellular, Inc. in the matter and in correspondence from the Council.

Thank you for your kind cooperation.

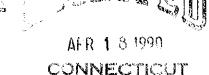
Very truly yours,

Enclosures

cc: Tele-Media Company of Northeastern Connecticut

Honorable Paula A. Faulkner, First Selectman, Town of Ashford

ORIGINAL



SITING COUNCIL

### STATE OF CONNECTICUT SITING COUNCIL

### NOTICE OF INTENT TO MODIFY AN EXEMPT TOWER AND ASSOCIATED EQUIPMENT

Pursuant to Section 16-50i(a)(5) of the Connecticut General Statutes and pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies. SNET Cellular, Inc. (SNET) a company which provides cellular radio telecommunications service in the State of Connecticut hereby notifies the Connecticut Siting Council that it intends to modify an existing telecommunications tower. The site is located on Pumpkin Hill Road, Ashford, Connecticut. The location will be leased in part from its current owner and operator, Tele-Media Company of Northeastern Connecticut (Owner), and will be used in part as a cell site to provide cellular mobile telecommunications service in Windham County. The proposed modification would contain both transmit and receive antennas.

This application is made by SNET as SNET is the applicant before the FCC. The FCC will be asked to transfer the license for the proposed site to the Springwich Limited Cellular Partnership in the near future. At this time, SNET will also request the same transfer by this Council. SNET is in compliance with the FCC's rule in 47 CFR Section 22.43(d) as more fully set forth in the attachment here to.

### DISCUSSION

The tower is located on the Owner's Land on Pumpkin Hill Road, Ashford.

The proposed addition is needed to supply cellular service to the Ashford area by SNET Cellular, Inc. This cell site has been designed to properly

interface with the adjacent cell site in Tolland , Pomfret, Thompson, and Brooklyn. The proposed antenna addition consists of an equipment building (see attached plot plan) and up to six (6) cellular and two (2) Message Alert Service antennas. The antennas to be used will be mounted between the 190 and 217 foot levels of the existing 300 foot guyed cable television tower. From the ground the antennas will appear smaller and be difficult to see. The existing tower supports various cable television antennas. The maximum power density of the cellular facility is set forth below. It has been calculated in milliwatts per square centimeter.

<u>Location</u>	Power Density
_	(proposed)
Tower Base	0.0765
Fence	0.0741
Nearest Building	0.0750

This addition does not increase the total power density measured at the tower site boundary to or above 2.933 milliwatts/sqcm .

In 1984 the Connecticut Legislature adopted the safety levels of the American National Standards Institute ("ANSI") in CGS Section 22a-162. The current ANSI power density level standard (for the cellular service band) for non-ionizing radiation is 2.933 milliwatts/sqcm (See ANSI Standard C95.1-1982). In this case the cellular power density figures are almost forty times less than the applicable standard.

The proposed addition does not constitute a "Modification" of an existing facility as defined in Connecticut General Statutes, Section 16-50i(d). This is because there is no change in the tower's height.

a The levels shown indicate the total power density in milliwatts per sq. cm. from all Cellular and message alert antennas measured simultaneously.

b The nearest building is the Owner's cable television building.

There is no extension of the boundaries of the tower site. There will be no increase in noise levels at the tower's boundary by six decibels or more. The total radio frequency electromagnetic radiation power density is

below the State standard. This addition will not have a substantially adverse environmental effect pursuant Connecticut General Statutes, Section 16-50J-27(b)(2).

For the reasons discussed above, SNET Cellular, Inc. requests the Council to acknowledge that this Notice of Modification meets the Council's exemption criteria.

Sincerely,

Peter J. Tyrrell

Attachments

### Statement of Compliance

The Connecticut Siting Council ("Council") has requested SNET Cellular, Inc. ("SNET") to provide information demonstrating that it is eligible to construct the facilities proposed in the attached filing by virtue of compliance with 47 USC §22.43(d). SNET now meets the conditions set forth in 47 USC §22.43(d).

This regulation is applicable to SNET because it is the sole eligible wireline applicant to apply for an initial block B (wireline) authorization in a cellular market as indicated on the attached Public Notice (47 USC §22.43(d)(1)(V)). On October 5, 1989, the FCC issued said Public Notice listing SNET's applications as accepted for filing. More than ninety days have elapsed from the date of said Public Notice and the requirements of §22.43(d)(3) have been met. Said ninety day period expired on January 6, 1990.

Section 22.43(d)(3) sets forth certain conditions which prohibits the applicant from commencing construction. None of the conditions now apply to SNET. (1) The application is not mutually exclusive with another application as the FCC has indicated that SNET was the "sole wireline applicant". (2) There is no outstanding waiver request of the Commission rule pursuant to §22.19. (3) The application has not proposed any de minimus extension of a CGSA boundary beyond the border of the cellular market. (4) The applicant has not been required by the FCC to file a notice of proposed construction with the FAA nor has it

received a determination from the FCC as to any required antenna structure marking or lighting specifications. (5) None of SNET's applications have an FCC significant environmental effect.

(6) Pursuant to FCC rules the proposed facilities are not located within 45 miles of the Canadian border. (7) None of the proposed facility contours extended into Mexico.

Based upon the above description SNET has the authority to commence construction as of the date hereof in Windham and Litchfield Counties.



## PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION 1919 M STREET N.W. WASHINGTON, D.C. 20554

0671089

0057

News media information 202/632-5050. Pecorded listing of releases and texts 202/632-0002. Cellular Recorded Information 202 653-5858

### COMMON CARRIER PUBLIC MOBILE SERVICES INFORMATION

SOLE WIRELINE APPLICATIONS ACCEPTED FOR FILING IN CONNECTICUT 1 - Litchfield CONNECTICUT 2 - Windham MASSACHUSETTS 1 - Franklin

Report No. CL-90-5

October 5, 1989

The applicants listed below were the sole wireline applicants for the cellular markets shown. The applicants must file the original and two (2) hard copies of their application no later than October 16, 1989. See Section 1.4 of the Rules. The applications must be enclosed in stiff covers and \*fastened securely along the left edge without exposed sharp edges. Section 1.65 amendments must be filed no later than November 8, 1989. See Section 1.4 of the Rules. A File Number has been assigned to each application and any amendments or correspondence to be associated with any application must specify the File Number. Announcement of a date for petitions to deny will be by subsequent public notice.

No fee is required for the filing of the original and two hard copies, since the fee was paid when the microfiche applications were filed.

Market No. 357 Connecticut 1 - Litchfield

Fee No. 9314323 SNET CELLULAR INC 555 LONG WHARF DRIVE, ROOM 750, NEW HAVEN, CT 06511 File No. 10745-CL-P-357-B-89

Market No. 358 Connecticut 2 - Windham

Fee No. 9327514 SNET CELLULAR INC 555 LONG WHARF DRIVE ROOM 750, NEW HAVEN, CT 06511 File No. 10746-CL-P-358-B-89

Market No. 470 Massachusetts 1 - Franklin

Fee No. 9316212 NEW YORK CELLULAR GEOGRAPHIC SERVICE AREA ONE BLUE HILL PLAZA, P O BOX 1567, PEARL RIVER, NY 10965-8567 File No. 10747-CL-P-470-B-89



SNET Cellular, Inc. 555 Long Wharf Drive Room 751 New Haven, Connecticut 06511 Phone (203) 553-7601

Donald R. Chapman
Vice President-Operations



- 11 - 1

April 20, 1990



Gloria Dibble Pond, Chairperson Connecticut Siting Council 136 Main Street, Suite 401 New Britain, Connecticut 06051

Dear Chairperson Pond:

The following supplemental information, requested by the Council's staff, is provided to support the four Notices of Exempt Modifications submitted on April 18, 1990.

Brooklyn - Three full size copies of the proposed site plan.

- Original and twenty copies of the proposed tower profile.

- On Wednesday evening, April 18, 1990, the Brooklyn Planning and Zoning Commission unanimously approved the site plan submitted herewith for the addition of our equipment building. No resident spoke in opposition of our proposal. This information can be confirmed by Ms. Karen Johnson, Town Planner, on 779-3411. Application for a building permit will be made upon receipt of the zoning decision notice.

Thompson - Three full size copies of the proposed site plan.

Original and twenty copies (reduced) of the site plan.

- Original and twenty copies of the building permit dated December 5, 1989 for our equipment building.

Ashford - Three full size copies of the proposed site plan.

Original and twenty copies (reduced) of the site plan.

- Original and twenty copies of the building permit dated December 6, 1989 for our equipment building.

Bridgeport - The SNET building at 430 John Street, Bridgeport, has been an existing radio/tower location since 1966. It is both a Federal Aviation Administration (FAA) and Federal Communications Commission (FCC) approved and recognized tower structure. Located on the roof of the building is a 40' self supporting tower which currently has two microwave horn and one 12' microwave dish antennas mounted at the top.

This tower was originally designed as a repeater location to accommodate two antennas, plus a small amount of spare capacity. In approximately 1982, the third antenna was added to the structure, bringing the tower to its maximum loading capacity. A complete rebuilding of the entire tower structure (and possible interruption of the existing heavily used SNET microwave services at this location) would be required to permit SNET Cellular the ability to add any additional load to the tower.

Were the tower strong enough to support the cellular antennas, they would have to be located below the existing microwave antennas, and the southeast and southwest antenna signals would be blocked by the wall of the existing penthouse.

The penthouse roof, which is 7' below the top of the tower, is the proposed location of the cellular antennas. This location provides a clear signal path in the southern direction. The northern direction would not be obstructed by the tower because of the antennas' relative positions on the roof, the azimuth of the antennas and as the tower is a lattice style structure, it will not markedly obstruct the cellular signals.

The cellular antennas would be supported on 4" pipes mounted to the inside surface of the penthouse walls. The mounts would extend approximately 4' above the wall, and the overall height of the mounts plus antennas would not extend above the existing tower.

A profile sketch of the roof, tower, penthouse and cellular antennas is attached to this letter.

Also enclosed are five copies of the revised site plan portion of the Docket 124, Lisbon, D&M plan, showing the grading slope from the roadway to be 2:1 in accordance with the Connecticut Guidelines for Erosion and Sediment Control, as required in the Council's Staff Report dated April 9, 1990 and approval letter dated April 10, 1990.

Sincerely,

Doud R. Chapman

### ORIGINAL

# TOWN OF ASHFORD DEPARTMENT OF BUILDING INSPECTION APPLICATION FOR BUILDING PERMIT AND PLAN EXAMINATION TELEPHONE NO. 429-8433

002340

	TELEPHONE NO. 429-8433		
1.	Location of building PUMPKIN HILL ROAD Map Blk. Lot.		
2.	Owner LECE MEDIA COMPANY OF NORTHWAS TOOK CT		
	Address PO BOX 200, SOUTH WINDHAM CT 06266		
3.	Applicant SHET CELLULAR, INC. (SOUTHERN HEW ETIGLAND TELE) Address RM. 7.70, 555 LONG WHARP DR, NEW HOURS UGVII IN3-7.61.		
4.	Electrical Contractor		
5.	Plumbing Contractor N. D. E. REND ADDRESS		
6.	Heating/Cooling Contractor.		
7.	Heating/Cooling Contractor.  ADDRESS  Gen. Contractor.  ADDRESS  ADDRESS  ADDRESS		
8.	Type of Improvement APPLITION D.F. 12' X 26' EUMIPHENT BULLPING		
	AT TELE-MODIA GATU TOWER SITE		
	PER SITE PLAN		
9.	Proposed Use EQUIPMENT FOR CELLULAR MOBILE TELEPHONE SUC		
10.	Type of Sewage: Private Number of Bedrooms No. of Baths No. of Baths		
11.	Type of Water Supply: Private None Public		
12.	Principal Type of Frame: WoodConcrete_XSteelOther		
13.	Type of Heating System:E. LECTRIC.		
14.	Fireplace or Woodstove POPE		
15.	State Driveway Permit FNUTING DRIVEWAY		
16.	Zone RA		
17.			
18.	Flood-Zone Area W/ss-		
P A	THE OWNER OF THIS BUILDING AND THE UNDERSIGNED  AGREE TO CONFORM TO THE CONNECTICUT  STATE BUILDING CODE AND TO  NOTIFY THE BUILDING OFFICIAL OF ANY CHANGES IN PLANS FOR WHICH THIS PERMIT  IS REQUESTED.  Signature of Applicant  Date  MANAGER TO CONFORM TO THE CONNECTICUT  STATE BUILDING OFFICIAL OF ANY CHANGES IN PLANS FOR WHICH THIS PERMIT  Signature of Applicant  Date  MANAGER TO CONFORM TO THE UNDERSIGNED  AGREE TO CONFORM TO THE CONNECTICUT  STATE BUILDING OFFICIAL OF ANY CHANGES IN PLANS FOR WHICH THIS PERMIT  Signature of Applicant  Date  MANAGER TO CONFORM TO THE CONNECTICUT  STATE BUILDING OFFICIAL OF ANY CHANGES IN PLANS FOR WHICH THIS PERMIT  IS REQUESTED.  MANAGER TO CONFORM TO THE CONNECTICUT  STATE BUILDING OFFICIAL OF ANY CHANGES IN PLANS FOR WHICH THIS PERMIT  IS REQUESTED.  MANAGER TO CONFORM TO THE CONNECTICUT  STATE BUILDING OFFICIAL OF ANY CHANGES IN PLANS FOR WHICH THIS PERMIT  IS REQUESTED.  MANAGER TO CONFORM TO THE CONNECTICUT  STATE BUILDING OFFICIAL OF ANY CHANGES IN PLANS FOR WHICH THIS PERMIT  IS REQUESTED.  MANAGER TO CONFORM TO THE CONNECTICUT  STATE BUILDING OFFICIAL OF ANY CHANGES IN PLANS FOR WHICH THIS PERMIT  IS REQUESTED.  MANAGER TO CONFORM TO THE CONNECTICUT  STATE BUILDING OFFICIAL OF ANY CHANGES IN PLANS FOR WHICH THIS PERMIT  IS REQUESTED.  MANAGER TO CONFORM TO THE CONNECTICUT  STATE BUILDING OFFICIAL OF ANY CHANGES IN PLANS FOR WHICH THIS PERMIT  IS REQUESTED.  LICENSE NO.		
	LICENSE NO.		

# 353 Pumpkin Hill Road.

# JILDING PERMIT OWN OF ASHFORD

Telemedia Comp. Owner SNET CELLULAR BLOG OWNER

 -INSPECTIONS 

 FOOTINGS
 DATE

 FRAME
 DATE

 PLUMBING
 DATE

 ELECTRICAL
 DATE

 HEATING
 DATE

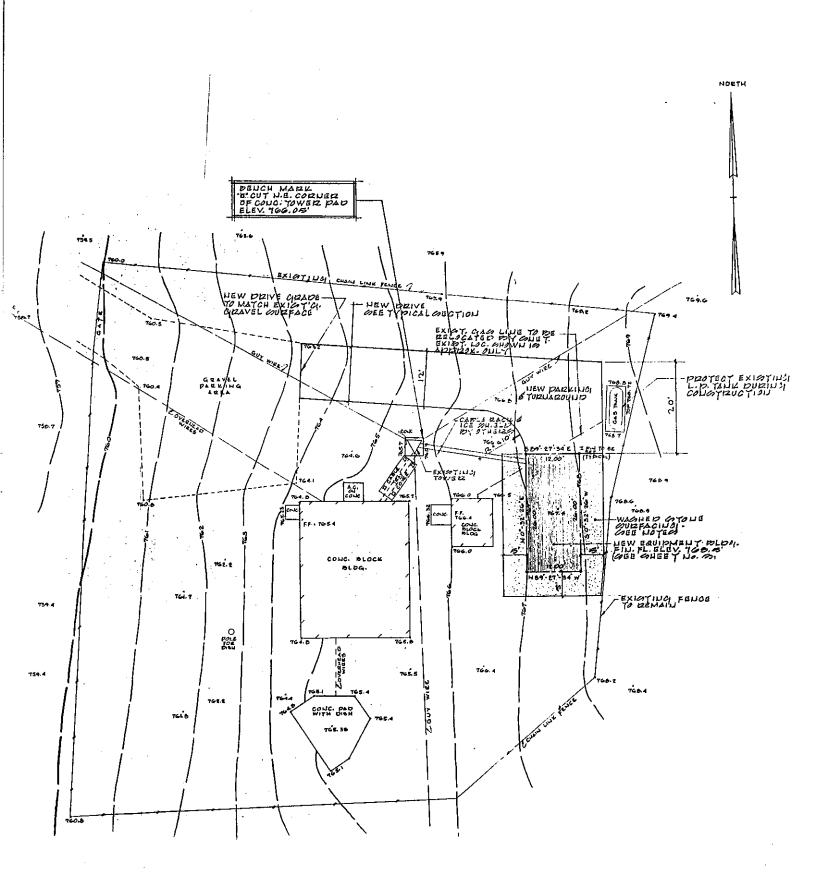
 OCCUPANCY
 DATE

This Permit Must Be Attached to or in Front of Building

To Be Removed Only By Building Inspector

ATE 19-6-89

BUILDING INSPECTOR



SNET Cellular, Inc. 555 Long Wharf Drive Room 751 New Haven, Connecticut 06511 Phone (203) 553-7601



Donald R. Chapman Vice President-Operations



October 31, 1990

CONNECTICUT SITING COUNCIL

Honorable Gloria Dibble Pond, Chairperson Connecticut Siting Council 136 Main Street, Suite 401 New Britain, Connecticut 06051

Would R. Chapman

Re: Notice pursuant to Regulations of State Agencies 16-50j-73 intent to modify an exempt telecommunications tower and associated equipment owned by Tele-Media Company of North Eastern, CT in the town of Ashford, Connecticut.

Dear Chairperson Pond:

As requested in your letter of acknowledgement dated May 1, we are pleased to notify the Council of completion of construction at this facility.

Very truly yours,