



# 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](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

Daniel F. Caruso  
Chairman

November 21, 2008

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

RE: **EM-CING-019-081024**- New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 116 Grant Hill Road, Brooklyn, 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 October 24, 2008, 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.

Very truly yours,

S. Derek Phelps  
Executive Director

SDP/MP/jb

- c: The Honorable Roger Engle, First Selectman, Town of Brooklyn  
Chester Dobrowski, Zoning Enforcement Officer, Town of Brooklyn  
Crown Castle



Daniel F. Caruso  
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October 29, 2008

The Honorable Roger Engle  
First Selectman  
Town of Brooklyn  
Town Hall  
P. O. Box 356  
Brooklyn, CT 06234-0356

RE: **EM-CING-019-081024**- New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 116 Grant Hill Road, Brooklyn, Connecticut.

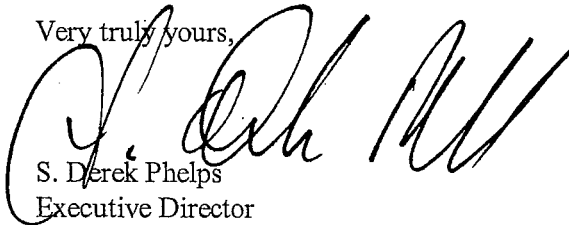
Dear Mr. Engle:

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 November 12, 2008.

Thank you for your cooperation and consideration.

Very truly yours,



S. Derek Phelps  
Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Chester Dobrowski, Zoning Enforcement Officer, Town of Brooklyn



EM-CING-019-081024

raising the bar

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

ORIGINAL

HAND DELIVERED

October 24, 2008

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

RECEIVED  
OCT 24 2008  
CONNECTICUT  
SITING COUNCIL

Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing tele-communications facility located at 116 Grant Hill Road, Brooklyn (Crown Castle)

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. Modifications to the existing site include all or some of the following as necessary to bring the site into conformance with the plan:

- Replacement of existing panel antennas with new antennas or, installation of additional antennas of a size required to accommodate UMTS.
- Installation of small tower mount amplifiers ("TMA's") and/or diplexers to the platform on which the panel antennas are mounted to enhance signal reception.
- Installation of additional or larger coaxial cables as required.
- Installation of an additional equipment cabinet in existing shelters, or on existing or enlarged concrete pads.
- Radome enlargement for flagpole and "stick" structures to accommodate larger antennas and additional associated equipment.

None of these 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 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**

116 Grant Hill Road, Brooklyn  
Site Number 5705  
Former AT&T Site  
Exempt Modifications approved 7/02, 11/03, and 7/08

**Tower Owner/Manager:** Crown Castle

**Equipment Configuration:** Monopole

**Current and/or Approved:** Six Powerwave 7770 antennas (or equivalent) @ 127 ft  
Six TMA's and six diplexers @ 127 ft  
Twelve runs 1 ¼ inch coax  
5 x 6 ft concrete pad with outdoor cabinets  
Smaller concrete pad with one outdoor cabinet

**Planned Modifications:** Remove the smaller pad and its outdoor cabinet  
Install a new 5 x 6 ft concrete pad extension  
Install one new outdoor UMTS cabinet on the new pad

**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 26.4 % 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 26.5 % of the standard.

**Existing**

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							20.40
AT&T GSM *	127	1900 Band	2	427	0.0190	1.0000	1.90
AT&T GSM *	127	880 - 894	2	296	0.0132	0.5867	2.25
<b>Total</b>							<b>24.6%</b>

\* Per CSC records

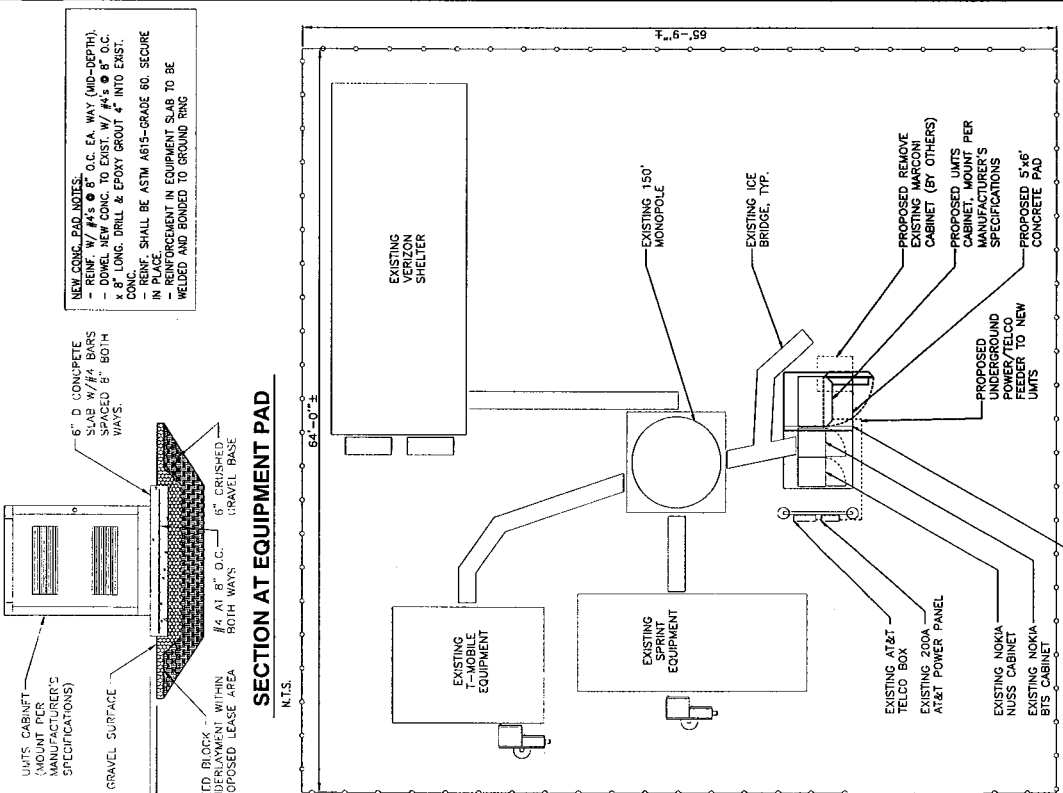
### Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm <sup>2</sup> )	Standard Limits (mW/cm <sup>2</sup> )	Percent of Limit
Other Users *							20.40
AT&T UMTS	127	880 - 894	1	500	0.0111	0.5867	1.90
AT&T GSM *	127	1900 Band	2	427	0.0190	1.0000	1.90
AT&T GSM *	127	880 - 894	2	296	0.0132	0.5867	2.25
Total							26.5%

\* Per CSC records

### Structural information:

No changes to tower loading proposed.

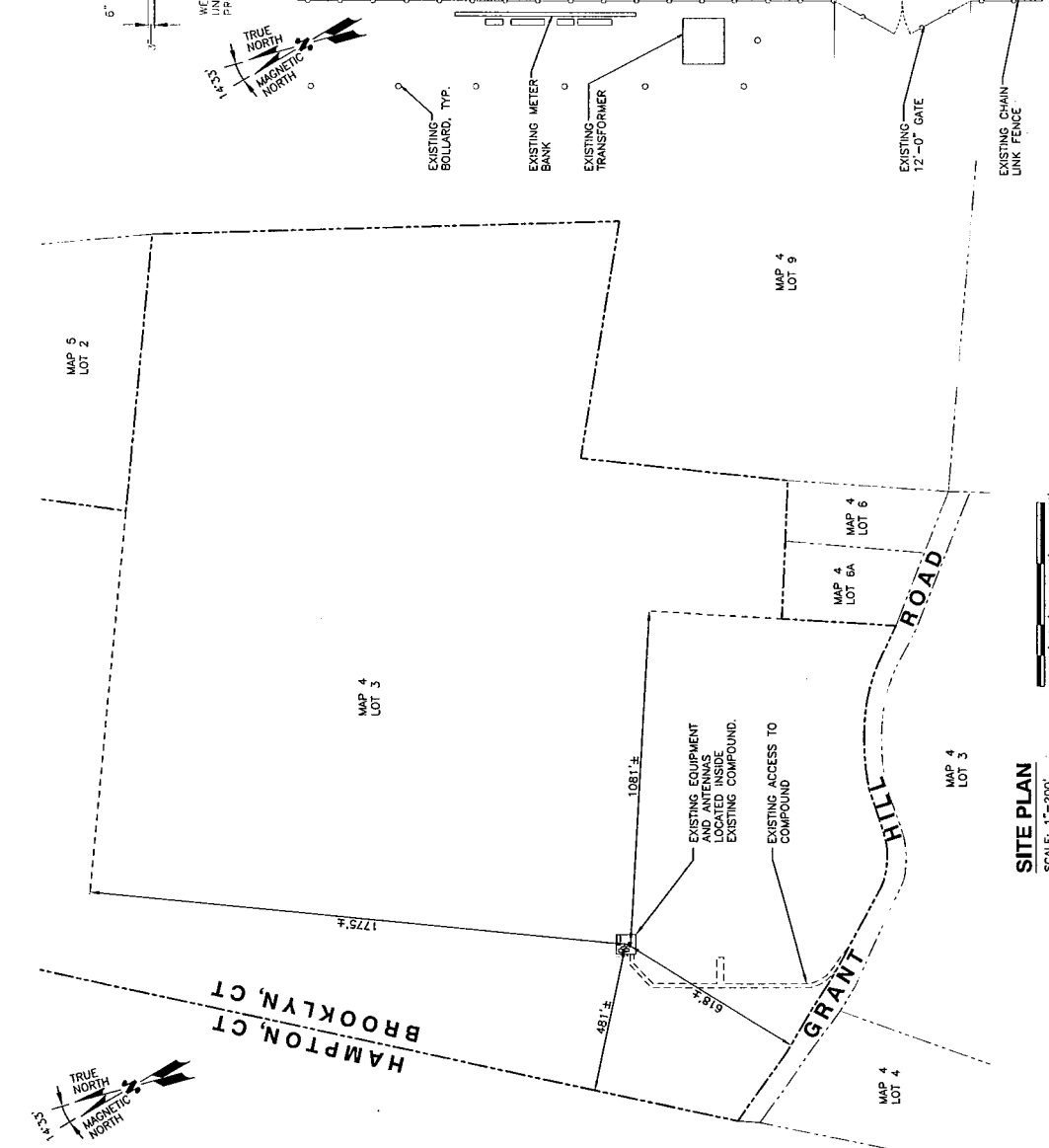


**SECTION AT EQUIPMENT PAD**

N.T.S.

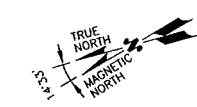
**COMPOUND PLAN**

SCALE: 3/16"=1'-0"



**SITE PLAN**

SCALE: 1"=200'



JOB NUMBER: 5705.01		DRAWING NUMBER: A-1	
DATE: 05/14/08		ISSUED FOR CONSTRUCTION	
BY: CHM/PC		DESIGNED BY: DC	
REVISIONS:		DRAWN BY: PC	
NO. DATE		SCALE: AS SHOWN	
1 08/25/08 CONSTRUCTION FINAL		AT&T	
0 04/14/08		SITE PLAN & COMPOUND PLAN	

500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067

**SITE NUMBER: 5705**  
**SITE NAME: BROOKLYN WEST**  
116 GRANT HILL ROAD  
BROOKLYN, CT 06234  
WINDHAM COUNTY

184 ROCKINGHAM ROAD, UNIT A  
LONDONDERRY, NH 03053

140 OSGOOD STREET  
LONDONDERRY, NH 03053  
TEL: 603.883.3333  
FAX: 603.883.3340



**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

October 24, 2008

Honorable Roger Engle  
1<sup>st</sup> Selectman, Town of Brooklyn  
Town Hall 4 Wolf Den Rd.  
Brooklyn, Connecticut 06234-0356

Re: Telecommunications Facility – 116 Grant Hill Road, Brooklyn

Dear Mr. Engle:

To enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC (“Cingular”) plans to “dual band” the referenced site to enable transmissions in the 850 Mhz band as well as the 1900 MHz band. This involves changing Cingular’s equipment configuration at the site.

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 Cingular’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 Cingular’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