

**Nextel Communications**

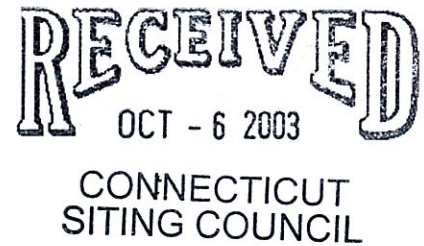
100 Corporate Place, 1st Floor, Rocky Hill, CT 06067  
860 513-5400 FAX 860 513-5444



EM-NEXTEL-068-031006

October 3, 2003

Ms. Pamela Katz, Chairman  
Connecticut Siting Council  
10 Franklin Square  
New Britain, Connecticut 06051



Dear Chairman Katz:

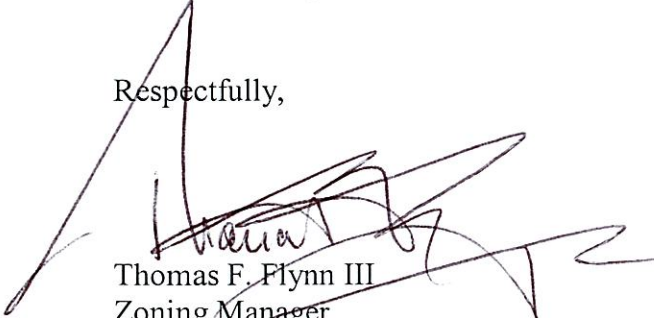
Please find enclosed and respectfully submitted, a request from Nextel Communications Inc. ("Nextel") to Modify an Exempt Tower and Associated Equipment at an existing telecommunications facility located on 136 Bulls Bridge Road, Kent, Connecticut. This facility is owned and managed by SpectraSite Communications Inc. and is currently used by Cingular Wireless, AT&T Wireless, Sprint PCS and the Connecticut State Police to provide wireless coverage.

Nextel wishes to share use of this facility in order to improve/expand wireless its system coverage and to avoid the possibility of constructing another telecommunications tower in the general area.

The attached information details how the addition of the proposed antennas and associated equipment at the tower site meet the criteria set forth in Section 16-50j-72(b)(2) of the Regulations of Connecticut State Agencies and therefore is an Exempt Modification pursuant to Section 16-50j-73 of the Regulation.

Thank you for your consideration in this matter.

Respectfully,



Thomas F. Flynn III  
Zoning Manager  
Nextel Communications Inc.

Enclosure

Cc: Dolores Schiesel  
First Selectman, Kent

**EXEMPT MODIFICATION  
136 BULLS BRIDGE ROAD  
KENT, CONNECTICUT 06757**

Pursuant to Section 16-50i(a)(5) of the Connecticut General Statutes and Section 16-50j-72(b)(2), as amended, of the Regulations of Connecticut State Agencies, Nextel Communications Inc., ("Nextel") hereby notifies the Connecticut Siting Council of its intent to modify an existing telecommunications facility located at 136 Bulls Bridge Road in Kent, Connecticut.

**BACKGROUND**

This existing facility, located at 136 Bulls Bridge Road in Kent, Connecticut consists of a 197-foot tall monopole that is owned and managed by SpectraSite Communications Inc. The tower is currently used by Cingular Wireless, AT&T, Sprint and the Connecticut State Police and provides wireless coverage in this section of Kent and on Route 7.

Nextel desires to share use of this facility and thus avoid the potential need to construct an additional tower in the general area.

**DISCUSSION**

Nextel plans to install twelve (12) panel antennas center-lined at the 110-foot level of the tower (see Attachment A) and place a 12-foot by 20-foot equipment shelter inside the southeastern corner of the existing fenced compound (see Attachment B). The tower has been structurally analyzed and found to be fully capable of supporting Nextel's antennas and its tower mounted hardware (see Attachment C).

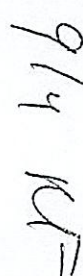
**POWER DENSITY INFORMATION**

The operation of Nextel's antennas will not increase the total radio frequency electromagnetic power density level to a level at (or even near) existing State and Federal Standards. "Worst case" calculations, measured to a point at the base of the tower, show the combined power levels for the existing Sprint and proposed Nextel antennas reach just 59.5% of the State/Federal standard in an uncontrolled access environment. (see Attachment D).

## **CONCLUSION**

The proposed additions do not constitute a “modification” of an existing facility as defined in Connecticut General Statutes Section 16-50i(d) and are consistent with the exception criteria found in Section 16-50j-72(b)(2) of the Regulations of Connecticut State Agencies in that the addition of Nextel’s antennas and equipment will not increase the existing tower height or extend the boundaries of the site; will not increase noise levels by six (6) decibels or more at the site’s boundaries; and will not increase the total radio frequency electromagnetic radiation above the Standard set forth in Section 22(a)–162 of the Connecticut General Statutes. In summary, this proposed addition would not have a substantial adverse environmental effect.

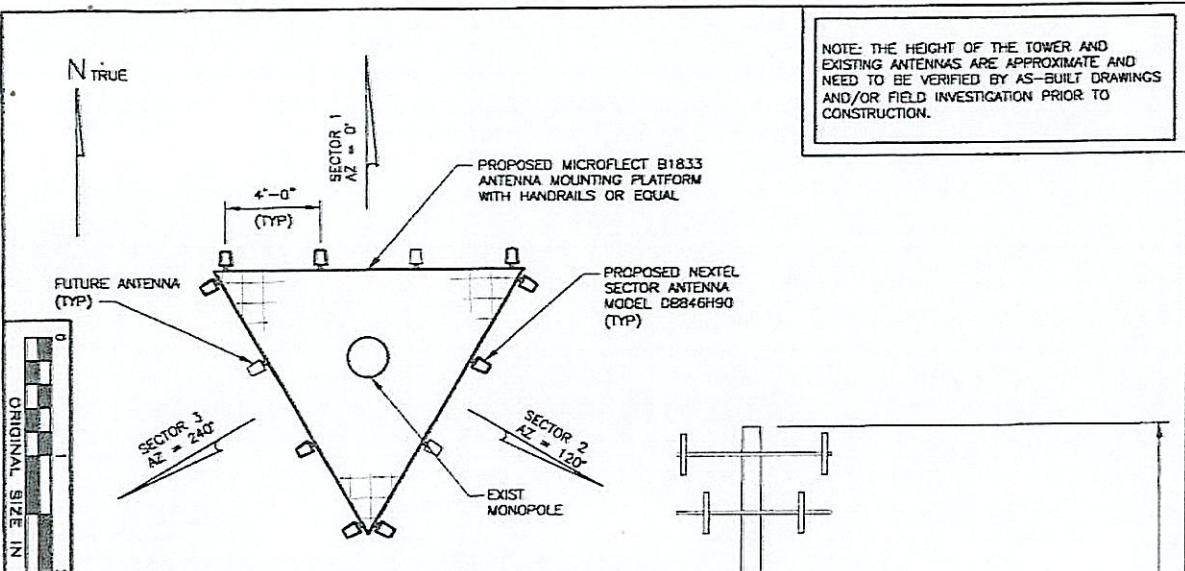
For the reasons discussed above, Nextel respectfully requests that the Council acknowledge that this Notice of Modification meets the Council’s exemption criteria, and permit Nextel to share use of this facility.



## ATTACHMENT A



NOTE: THE HEIGHT OF THE TOWER AND EXISTING ANTENNAS ARE APPROXIMATE AND NEED TO BE VERIFIED BY AS-BUILT DRAWINGS AND/OR FIELD INVESTIGATION PRIOR TO CONSTRUCTION.



**2 ANTENNA MOUNTING PLAN**  
SCALE: 1" = 5'

NO.	DATE	ISSUE
0	10/11/01	FOR COMMENT
1	6/8/03	RE-ISSUE FOR APPROVAL
2	6/25/03	FOR FINAL APPROVAL

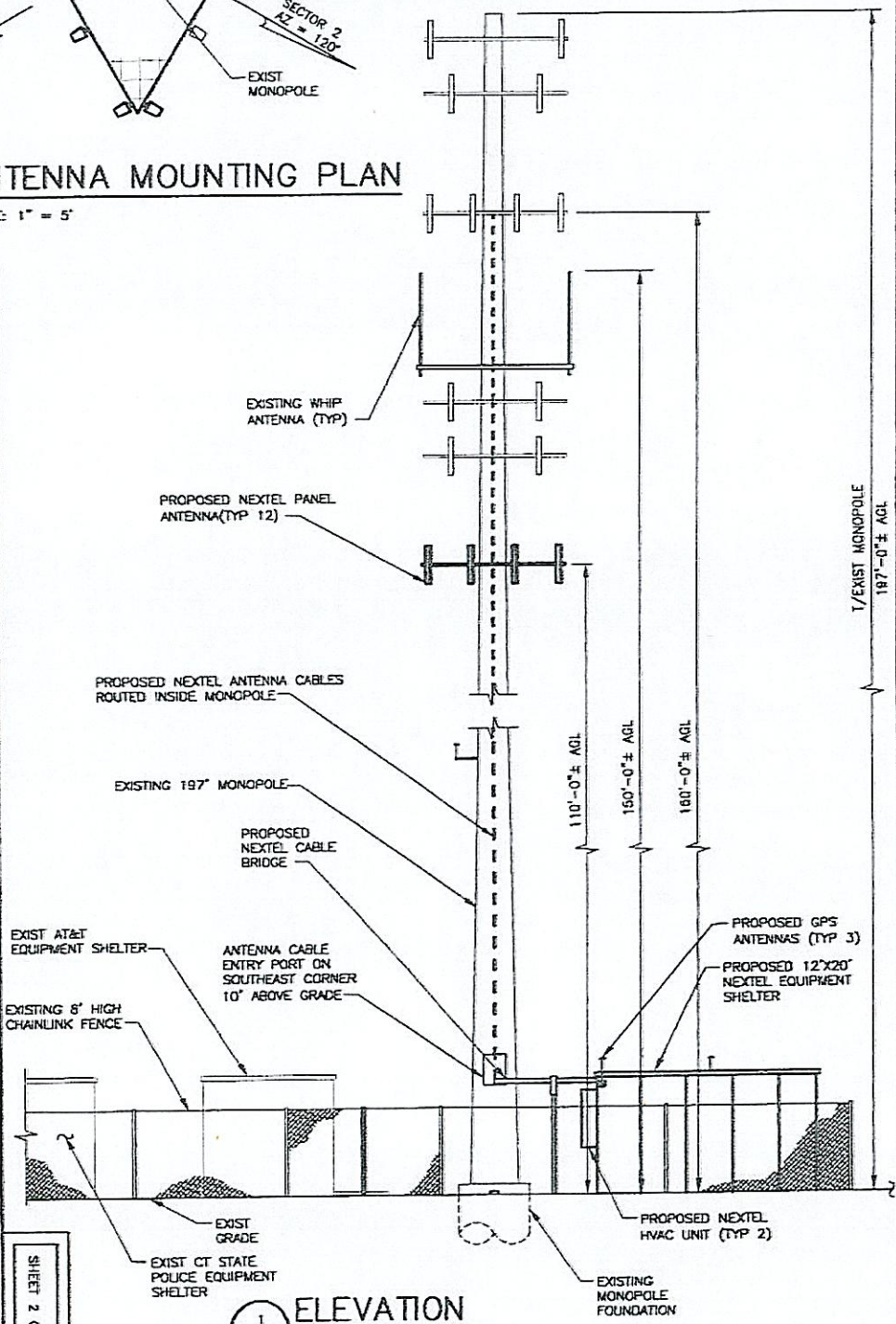
**OWNER APPROVAL:**  
**TEOTONIO** ENGINEERING & SURVEYING CONSULTANTS P.C.  
1145 S. Main Street, Suite 200  
Rocky Hill, CT 06067  
Phone: (860) 261-5633  
Fax: (860) 261-5634  
www.teotoniocorp.com

**ISSUED BY:** W.O. 2093,3062

**DATE:**

**NEXTEL**  
KENT (CT-3062)  
136 BULLS BRIDGE ROAD  
KENT, CT

LEASE EXHIBIT L-2



**1 ELEVATION**  
SCALE: 1" = 10'



SpectraSite

CT-0014  
09/25/2003

Level 1 Structural Evaluation <sup>1</sup>		
Site Number & Name	<b>CT-0014 Kent</b>	
Site Address	136 Bulls Bridge Road Kent, CT 06785	
Tower Description	<b>180 ft EEI Monopole</b>	
Standards & Codes <sup>2</sup>	ANSI/TIA/EIA-222-F (1996) <b>80 mph (Litchfield County) w/ 1/2" radial ice</b>	1996 BOCA National Building Code <b>80 mph w/ 1/2" radial ice</b>

Table 1: Existing and Proposed Antenna Configuration					
ELEVATION (ft)	ANTENNA MODEL & MOUNT TYPE	CARRIER	COAX SIZE	[I]/[O] <sup>a</sup>	STATUS
184.5	(3) Ant-Special ASP-952 on Low Profile Platform	Cingular	(3) 1-1/4"	I	Existing
173	(3) Antel LPD-7907/4 (3) Antel RWA-80012 on Low Profile Platform	AT&T	(6) 1-5/8"	I	Existing
173	(2) Allgon 7262.01 on Existing Low Profile Platform	AT&T	(4) 1-5/8"	I	Proposed
160	(9) CSS DUO1417-8686 on Low Profile Platform	Cingular	(9) 1-5/8"	I	Proposed
143	(2) Decibel DB809K-XT on Side Arm Mounts	CT State PD	(4) 1-5/8"	I	Existing
125	(2) Decibel DB980H90T4E-M (4) Decibel DB980H90T3E-M (1) Decibel DB980H90T4E-M (1) Decibel DB980H90T3E-M on Low Profile Platform	Sprint	(2) 7/8" (4) 1-5/8" (1) 7/8" (2) 1-5/8"	I	Existing Existing Reserved Reserved
119	(1) 2' Dish on Pipe Mount	WMNR	(1) 7/8"	I	Existing
110	(12) Decibel DB844H90E-XY on 15' PiRod Platform <sup>c</sup>	Nextel	(12) 1-1/4"	I <sup>b</sup>	Proposed
80	Empty Side Arm Mounts	N/A	N/A	N/A	Existing

<sup>a</sup> [I] / [O] denotes coax installed inside or outside the monopole, respectively.<sup>b</sup> Use existing ports at an elevation 110' to install coax inside monopole.<sup>c</sup> Platform conforms to the requirements of TIA/EIA-222-F for sustained 90 mph wind with 1/2" radial ice.<sup>1</sup> The existing and proposed loads of Table 1 are compared to the original tower design loads or previous analysis.<sup>2</sup> The design wind criteria are compared to the current code requirements.<sup>3</sup> The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in Table 1.

The subject tower and foundation *are adequate* to support the above stated loads in conformance with specified requirements.<sup>3</sup>

Analysis prepared by:  
Ashley A. Miller, E.I.  
Engineering Associate  
(919) 466-5527



*Douglas K. Pineo*  
9/26/03

Douglas K. Pineo, P.E.  
Senior Design Engineer

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Connecticut



# Kent, CT (136 Bulls Bridge Rd.) - CT Siting Council Power Density Calculations

Nextel Directional Antennas ESMR - 851 MHz at centerline 110' AGL

Transmitters:		Frequency in MHz	CT Standard mW/ cm <sup>2</sup>	Number of Channels	ERP (W) per channel	Centerline of Tx antennas AGL (ft.)	Note: Power densities are in mW/ cm <sup>2</sup>	
SCLP		*	0.5867	*	*	180	Power density calculated at base of tower	% of CT Standard
AT&T		*	0.5793	*	*	170	0.02271	3.9%
State Police		*	0.5773	*	*	150	0.01739	4.4%
Sprint		*	1.0000	*	*	80	0.37279	3.0%
WMNR		*	1.0000	*	*	124	0.0347	37.3%
		*	0.2000	*	*	114	0.00517	3.5%
Nextel Digital ESMR - Proposed		851	0.5673	24	100	110	0.07128595	2.6%
Total % of CT Standard								12.5651%
								67.2%