



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

June 23, 1999

Ronald C. Clark
Manager, Real Estate Operations
Nextel Communications
100 Corporate Place
Rocky Hill, CT 06067

RE: TS-NEXTEL-052-990526 – Nextel Communications request for an order to approve tower sharing at an existing telecommunications facility located at 130 Birdseye Road in Farmington, Connecticut.

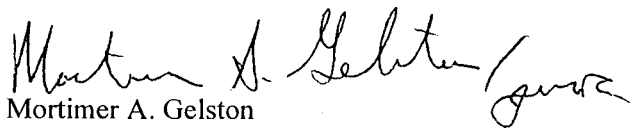
Dear Mr. Clark:

At a public meeting held June 16, 1999, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures, conditioned on revision of the site plan after Town of Farmington review and the recalculation of radio frequency power density levels to include all nearby transmitting facilities.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated May 26, 1999, and additional information dated June 8, 1999. Please notify the Council when all work is complete.

Very truly yours,


Mortimer A. Gelston
Chairman

MAG/RKE/tsg

c: Thomas R. Wontorek, Town Manager, Town of Farmington
Kathleen Eagen, Assistant Town Manager, Town of Farmington

Ronald C. Clark
Manager Real Estate Operations

Nextel Communications
100 Corporate Place, Rocky Hill, CT 06067
860 883-2112 FAX 860 513-5444

NEXTEL

May 26, 1999

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

RECEIVED

MAY 26 1999

CONNECTICUT
SITING COUNCIL

Dear Chairman Gelston:

Pursuant to Connecticut General Statutes ("C.G.S.") § 16-50-aa, Nextel Communications, Inc. ("Nextel") respectfully proposes to install communications antennas on an existing telecommunications tower located at 130 Birdseye Road in Farmington, Connecticut. The existing facility is owned/operated by Sprint PCS and is used to provide wireless system coverage in the Farmington area.

Nextel respectfully requests that the Council find the proposed shared use of the facility satisfies the criteria stated in C.G.S. § 16-50-aa and issue an order approving the shared use of this facility.

Sincerely,

Ronald C. Clark
Manager Real Estate Operations



CC: Mr. Thomas R. Wontorek
Farmington Town Manager

Mr. Steve Kotfila
Sprint PCS

TOWER SHARING

30 BIRDSEYE ROAD

FARMINGTON, CONNECTICUT

BACKGROUND

Nextel Communications, Inc. is licensed by the Federal Communications Commission (FCC) to provide wireless communication services in the State of Connecticut, including the Town of Farmington.

Nextel proposes to mount twelve (12) panel antennas and two (2) GPS antennas on an existing 140-foot monopole owned Sprint PCS and located at 30 Birdseye Road in Farmington. Sprint utilizes the facility to provide wireless communications coverage in the Farmington area.

NEXTEL INSTALLATION

Nextel proposes to install twelve (12) ALP Model 9212 panel antennas center mounted at the 120-foot level and two (2) receive-only GPS antennas at the 70-foot level of the 140-foot monopole (See Attachment A). A 10-foot by 20-foot pre-fabricated equipment shelter is planned to be placed at the base of the tower (see Attachment B).

POWER DENSITY CALCULATIONS

The operation of Nextel's antennas will not increase the total radio frequency electromagnetic power density level measured at the base of the tower, to a point at, or even near, the State and Federal standard. "Worst case" calculations for a point at the tower base show the combined power density level for both the Nextel and Sprint antennas is only 6.4201% of the State/Federal standard for an uncontrolled environment (see Attachment C).

OTHER RELEVANT INFORMATION

C.G.S. § 16-50-aa provides that, upon written request for approval of a proposed shared use, "if the Council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the Council shall issue an order approving such shared use." (C.G.S. § 16-50-aa(c)(1).)

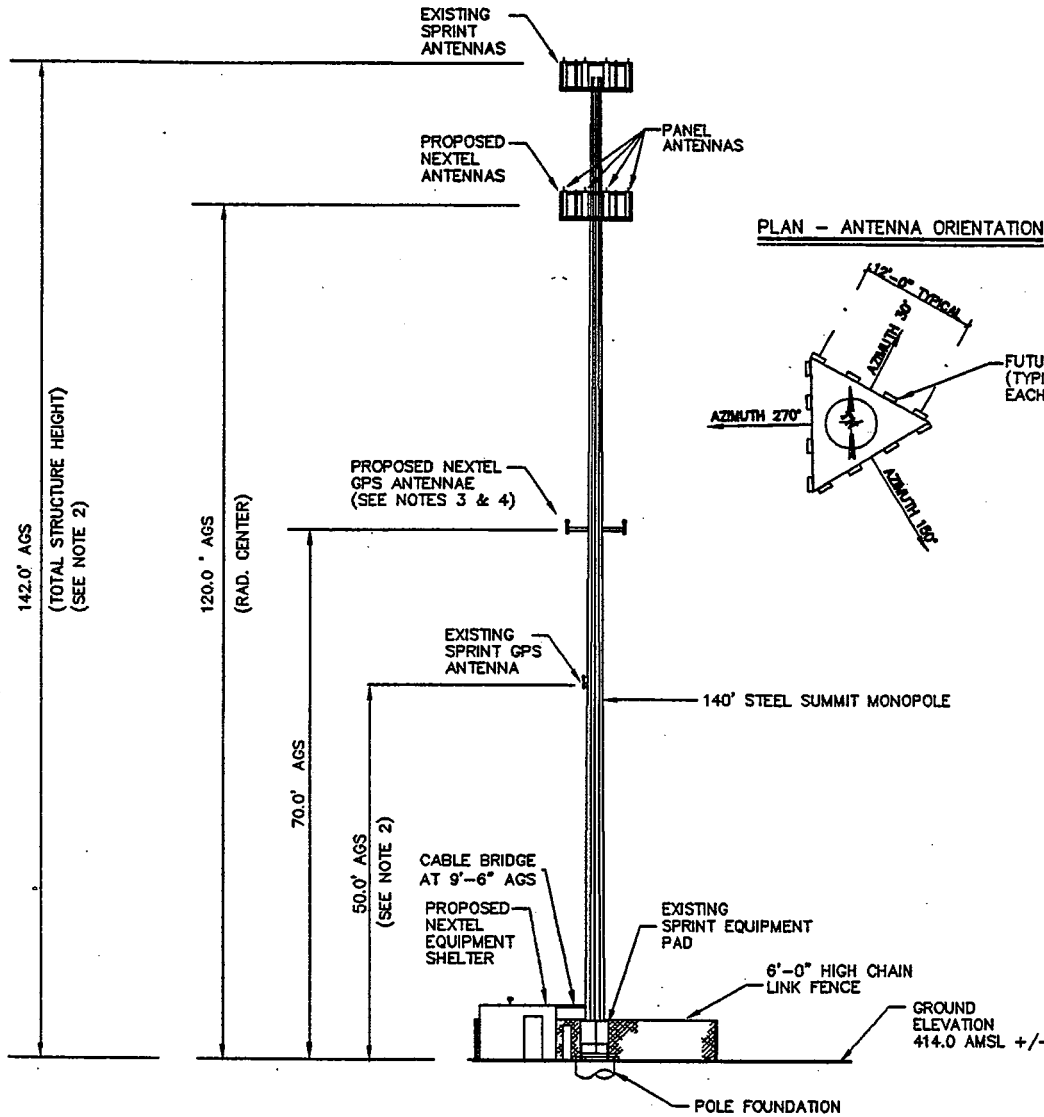
The shared use of the tower satisfies the criteria stated in C.G.S. § 16-50-aa as follows:

- **Technical Feasibility.** The Sprint monopole was designed and engineered to accommodate multiple carriers and is capable of supporting the Nextel's proposed antenna arrays. The proposed-shared use of the tower is therefore technically feasible.
- **Legal Feasibility.** Under C.G.S. § 16-50-aa, the Council has been authorized to issue an order approving the proposed-shared use of an existing tower facility. (C.G.S. § 16-50-aa(c)(1).) This authority complements the Council's prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. C.G.S. § 16-50x(a) directs the Council to "give such consideration to other state laws and municipal regulations as it shall deem appropriate" on ruling of requests for the shared use of existing tower facilities. Under the authority vested in the Council by C.G.S. § 16-50-aa, an order by the Council approving the shared use would permit the Nextel to obtain a building permit for the proposed installation.
- **Environmental Feasibility.** The proposed shared use would have a minimal environmental effect, for the following reasons:
 1. The proposed installation would have an insignificant incremental visual impact, and would not cause any significant change or alteration in the physical or environmental characteristics in or around the area.
 2. The proposed installation would not increase the noise levels at the existing facility by six decibels or more.
 3. Operation of the existing and proposed Nextel antennas at this facility would not exceed the total radio frequency electromagnetic radiation power density level standard adopted by the State of Connecticut and the Federal Government. The "worst-case" exposure levels have been calculated for ground level and the combined power density levels for all users at the tower base is only 6.4201% of the standard for an uncontrolled environment. As such, the facility would be operated in full and complete compliance with the Federal Telecommunications Act of 1996.
 4. The proposed installation would not require any water or sanitary facilities, or generate air emissions or discharges to water bodies. After construction is completed (approximately four weeks), the installation would not generate any traffic other than from periodic maintenance visits. The proposed use of the facility would therefore have a minimal environment effect, and is environmentally feasible.
- **Economic Feasibility.** Nextel has entered into an agreement with Sprint PCS to share use of the facility on mutually agreed to terms. The proposed tower sharing is therefore economically feasible.

- **Public Safety Concerns.** As stated previously, the tower is structurally capable of supporting the proposed antennas. Nextel is not aware of any other public safety issues relative to the proposed sharing of the tower. In fact, the provision of additional wireless coverage in the area is expected to enhance the safety and welfare of local residents. The public safety benefits of wireless service are illustrated by the decision of many local law enforcement authorities here in Connecticut and in other parts of the country, to provide mobile phones to residents to improve public safety by enhancing emergency communications capabilities. The proposed-shared use of this facility would likewise improve public safety in the Old Lyme area.

CONCLUSION

For the reasons discussed, the proposed shared use of this existing tower facility satisfies the criteria stated in C.G.S. § 16-50-aa, and advances the Connecticut General Assembly's and the Siting Council's objective of preventing the proliferation of towers in the State. Nextel therefore respectfully requests the Siting Council to issue an order approving the shared use of this facility.



SECTOR #	ANTENNA TYPE
1	ALP 9212
2	ALP 9212
3	ALP 9212

MONOPOLE DETAIL
NOT TO SCALE

- NOTE:
1. AGS = ABOVE GROUND SURFACE
 2. TOTAL STRUCTURE HEIGHT BASED ON 8/13/98 ISSUE (OR VOIDED) TO REFLECT AS-BUILT PER SEA CONSULTANTS, INC. SITE CT03XC100A
 3. GPS ANTENNAE TO BE MOUNTED WITH 3'-6" STANDOFF FROM TOWER, EAST & WEST FACE
 4. GPS ANTENNAE STANDOFFS AND COAX. TO BE BANDED TO TOWER



DIVERSIFIED TECHNOLOGY CONSULTANTS
550 WASHINGTON AVENUE NORTH HAVEN CT 06473
203 239 4200 203 234 7378 FAX

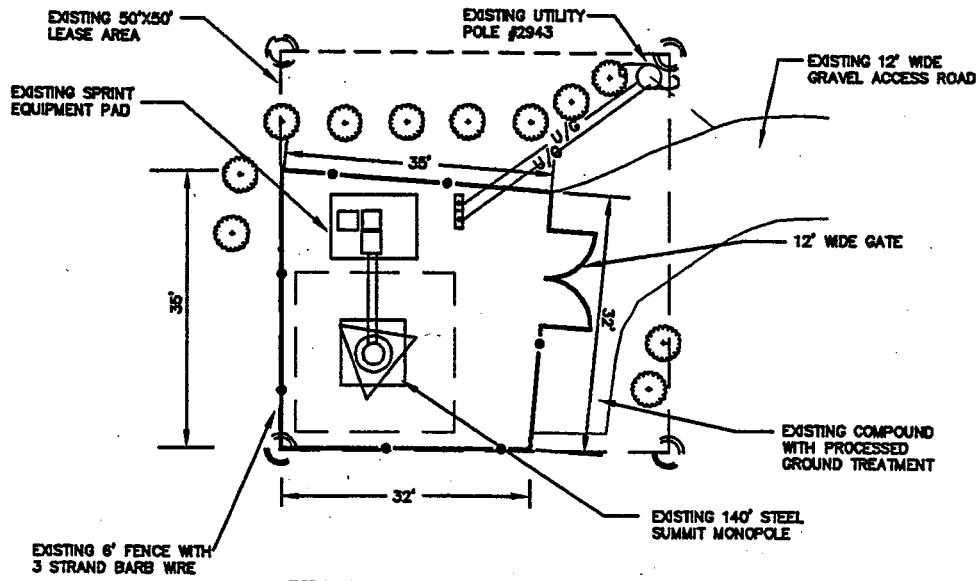


REV.: 2/17/99: RF COMMENTS
REV.2: 4/16/99: CABLE BRIDGE COMMENT

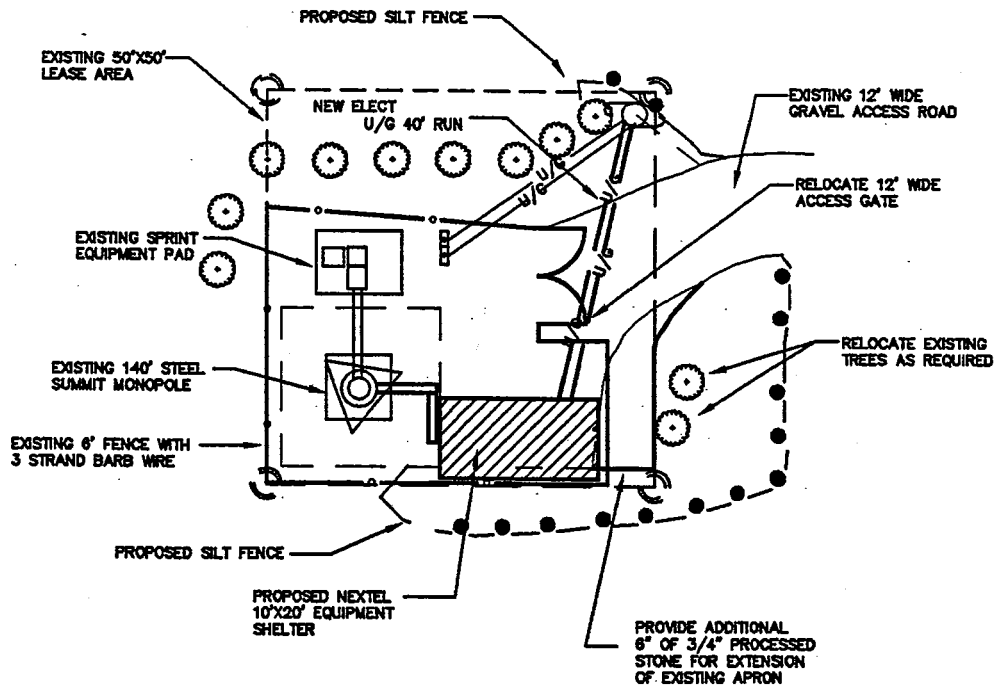
LEASE EXHIBIT
CT - 0722
FARMINGTON-130 BIRDSEYE ROAD
TOWER ELEVATION

FEBRUARY 12, 1999
ATTACHMENT A

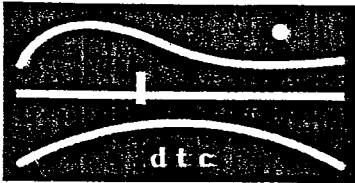
SCALE: N.T.S.



EXISTING VIEW



AMENDED VIEW



DIVERSIFIED TECHNOLOGY CONSULTANTS
 856 WASHINGTON AVENUE NORTH HAVEN CT 06473
 203 339 4300 203 234 7376 FAX



REV.: 2/17/99: REVISED DOCUMENT TEXT
 REV.2: 4/16/99: MOVED SHELTER

LEASE EXHIBIT
 CT - 0722
 FARMINGTON-130 BIRDSEYE ROAD
 COMPOUND EXPANSION

SCALE: 1/24" = 1'-0" ATTACHMENT B

Farmington, CT - Co-location on an Existing Tower on Birdseye Rd									
Sprint Spectrum Directional PCS Antennas - 1957.5 MHz at centerline 140' AGL - Existing									
Nextel Communications Directional ESMR Antennas - 851 MHz at centerline 120' AGL - Proposed									
Note: Power densities are in mW/cm ²									
Transmitter:	Frequency in MHz	CT Standard mW/cm ²	Total ERP per sector (Watts)	Centerline of TX antennas AGL (ft)	Power density calculated at the tower base				
Sprint Spectrum - PCS	1957.5	1.0	1342	140	0.024607898				
Sprint Spectrum - PCS - % of CT Standard									
Nextel Directional ESMR Antennas	851	0.56733	900	120	0.0224625				
Nextel Directional Antennas - % of CT Standard									
Total % of CT and FCC Standard									
					6.4201%				

ENGINEERED
SOLUTIONS

LAND
STRUCTURES
WATER

June 8, 1999

Mr. Ron Clark
Manager of Real Estate Operations
Nextel Communications, Inc.
100 Corporate Place
Rocky Hill, CT 06067

Re: Physical and Environmental Characteristics Survey
Sprint Monopole
130 Birdseye Road, Farmington, CT
DTC Project No.: 98-403-210

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JUN 09 1999
CONNECTICUT
SITING COUNCIL

Dear Mr. Clark:

Diversified Technology Consultants (DTC) has reviewed pertinent site plan information and conducted two on-site inspections of the above referenced facility. A summary of the findings of the aforementioned investigations are provided below.

The Farmington Inland Wetland Inventory of Regulated Areas Map depicts the subject site as a regulated area. Section 3.B. of the regulations indicates that "to prove himself exempt from these regulations, the applicant must present documentation by a soil scientist that the land in question, or a portion of it, does not have a soil type classified by the National Cooperative Soils Survey as poorly drained, very poorly drained, alluvial, or floodplain".

The Sprint PCS site survey prepared by Hallisey and Herbert, dated March 1997 depicts the site specific wetland delineation in the portion of the site germane to Sprint's application (50' x 50' lease area) and by association, Nextel's subject application (10' x 20' lease area within Sprint's underlying land hold interest). Ultimately, the Sprint Wireless Telecommunications Facility was approved and constructed. Therefore, the aforementioned burden of proof was met.

Nextel's proposed co-location consists of expanding the fence line of the existing compound by approximately 13 feet. The limits of the expansion are within the originally approved 50' x 50' Sprint lease area. The compound expansion is located approximately 70' to 75' from the wetlands limits, as delineated. Appropriate sedimentation and erosion controls are provided between the limits of the newly proposed construction and the wetlands. Based on DTC's site visits, it is our opinion that Nextel's proposed co-location will not cause significant change and/or alternation to the physical or environmental characteristics of site.

Should you have questions regarding this matter, please do not hesitate to contact me at 203.239.4200

Sincerely,

DIVERSIFIED TECHNOLOGY CONSULTANTS, INC.

Scott M. Chasse

Scott M. Chasse, P.E.
CT License No.: 00019728
Telecommunications Manager

DIVERSIFIED TECHNOLOGY CONSULTANTS

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THE TOWN OF FARMINGTON

INCORPORATED 1645



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24 HOUR MESSAGE (860) 675-0552

RECEIVED

June 8, 1999

JUN 08 1999

Mr. Joel M. Reinbold
Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, Connecticut 06051

CONNECTICUT
SITING COUNCIL

Re: TS-NEXTEL-052-99056- Application of Nextel Communications, 130 Birdseye Road, Farmington

Dear Mr. Reinbold

Thank you for informing my office about the upcoming hearing on the above referenced matter. This tower was the subject of litigation in Federal Court after it was originally denied by our Town Plan and Zoning Commission. It is located in a residential area and was opposed by a significant number of property owners in the neighborhood. The following is a list of concerns relative to this application.

1. The subject of this application appears to be the installation of antennas for wireless communication services. It is my understanding that these installations up to now were the jurisdiction of individual municipalities. Since the presentation of the original tower did not discuss the concept of co-location I believe there should be an ample opportunity for residents of the area to review this proposal.
2. The subject property contains significant areas of wetland soils. The location of the tower and the construction access had to be carefully planned in order to avoid impacts to these regulated areas. The Town should be provided with a site plan to ensure no disturbance to these areas.
3. The area in which this tower is located is also occupied by a number of AM radio antennas. While it appears that Nextel's power density calculations took into consideration the emissions by Sprint, should this calculation also include a factor for these adjacent facilities?

I will be happy to further elaborate on these concerns and may be reached at 673-8223.

Sincerely

Kathleen A Eagen

Kathleen Eagen

Assistant Town Manager

c. File

