



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

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

February 6, 1997

Peter J. Tyrrell
Springwich Cellular Limited Partnership
500 Enterprise Drive
Rocky Hill, CT 06067

Re: Springwich Cellular Limited Partnership request for an order to approve tower sharing at an existing telecommunications facility located on Beaver Road in Branford, Connecticut.

Dear Attorney Tyrrell:

At a public meeting held on February 5, 1997, 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.

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 January 22, 1997. Please notify the Council when all work is complete. A copy of the staff report on this request, dated February 5, 1997, is enclosed for your information.

Very truly yours,

A handwritten signature in cursive script that reads "Mortimer A. Gelston" followed by a flourish.

Mortimer A. Gelston
Chairman

MAG/JMR/ss

Enclosure:(1): Staff Report dated February 5, 1997

c: Honorable Dominick Buonocore, First Selectman, Town of Branford



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Springwich Cellular Limited Partnership
Request to Order Tower Sharing
Branford, Connecticut
February 5, 1997

On January 22, 1997, Springwich Cellular Limited Partnership (Springwich) submitted a request for the Council to approve the shared use of this tower facility. Springwich proposes to attach nine directional antennas at the 112-foot level of an existing 125-foot tower owned by Smart SMR of New York, Inc. (Nextel) off of Beaver Road in Branford, Connecticut. The tower currently supports three Nextel omni-directional antennas which provide mobile communications service. Springwich would also construct a 12-foot by 16-foot equipment shelter near the base of the tower, within a 22-foot by 26-foot area which would be enclosed by a new eight-foot high chain link fence. The area on which the new equipment building would be placed is level, covered with gravel, and immediately adjacent to the parking lot of a welding company. The proposed construction would involve little or no grading, no clearing of vegetation, and would not impact any wetlands. Access to the site would come from this parking lot. Utilities would be brought into the site underground for a distance of approximately 60 feet. Robert K. Erling of Council staff met Michele Carlo of Springwich for a review of this site on February 3, 1997. An engineering structural analysis of the existing tower indicates the tower could support the proposed Springwich antennas.

Springwich has reached a leasing agreement with the facility owner for space to install its antennas and equipment shelter.

The addition of the proposed antennas would not increase the total radiofrequency electromagnetic radiation power density at the base of the tower to a level at or above the American National Standards Institute standard for cellular frequencies, based on worst-case assumptions; would not increase the height of the tower; would not extend the boundaries of the site; and would not increase the noise level of the existing facility by six decibels or more at the site boundary.

Springwich contends that this proposal constitutes the sharing of a tower that it is technically, legally, environmentally and economically feasible, meets public safety concerns, will avoid the unnecessary proliferation of towers, and is in the public interest; and pursuant to 16-50aa, requests the Council to order tower sharing at this facility.

Robert K. Erling
Senior Siting Analyst

RKE/ss

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STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

10 Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
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January 29, 1997

Michele Carlo
SNET Mobility, Inc.
500 Enterprise Drive
Rocky Hill, CT 06067

RE: Springwch Cellular Limited Partnership request for an order to approve tower sharing at an existing telecommunications facility located on Beaver Road in Branford, Connecticut.

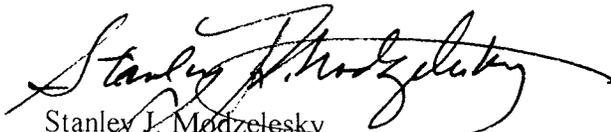
Dear Ms. Carlo:

Please be advised that Connecticut Siting Council staff will be conducting a field review at this site at Beaver Road in Branford, Connecticut, at 10:00 a.m. on Monday, February 3, 1997.

The presence of Springwch Cellular personnel is requested for this field review.

If there are any questions on this matter, please contact me at the Council's office.

Very truly yours,


Stanley J. Modzelesky
Executive Secretary

SJM/RKE/ss

FAXED
1-29-97

Springwich Cellular Limited Partnership
500 Enterprise Drive
Rocky Hill, Connecticut 06067
Phone (860) 513-7755

SPRINGWICH CELLULAR LIMITED PARTNERSHIP

January 22, 1997

Peter J. Tyrrell
General Counsel

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

RECEIVED

JAN 22 1997

**CONNECTICUT
SITING COUNCIL**

Re: Request by Springwich Cellular Limited Partnership for Order to Approve Shared Use of a Tower Facility, Beaver Road, Branford, Connecticut, pursuant to C.G.S. Section 16-50 aa.

Dear Chairman Gelston:

The following package contains a request from Springwich Cellular Limited Partnership ("SCLP") to share a facility owned and operated by Smart SMR of New York, Inc. ("Nextel").

Pursuant to Public Act 93-268, as modified by Public Act 94-242, SCLP hereby requests an Order from the Siting Council to approve the proposed shared use by the applicant of an existing tower facility located at 4 Beaver Road, Branford, Connecticut. SCLP proposes to install antennas on the Nextel tower and to locate an approximately 12' x 16' single story equipment shelter at the base of the tower. The applicant requests the Council to find that the proposed shared use of the tower facility satisfies the criteria stated in Public Acts 93-268 and 94-242 and to issue an order approving the proposed shared use.

Background

Springwich Cellular Limited Partnership is licensed by the Federal Communications Commission (FCC) to provide cellular telephone service in the New Haven County New England County Metropolitan Area (NECMA), which includes the area to be served by the applicant's proposed installation.

The Nextel facility at 4 Beaver Road, Branford, Connecticut consists of a 52' x 26' leased area, on which is a 125' lattice style tower and an approximately 10' x 20' equipment shelter at the base of the tower. The tower currently supports Nextel's three (3) DB810K Omni antennas with an 131' center line which provide mobile communications service to the public pursuant to an FCC license. The applicant and Nextel have agreed to the proposed shared use of the tower facility pursuant to mutually acceptable terms and conditions. Nextel has also authorized the applicant to act on its behalf to apply for all necessary local, state and federal permits, approvals, and authorizations which may be required for the proposed shared use of the Nextel facility. (See Nextel letter at Attachment A.) This letter is the basis of the applicant's present request for approval of the proposed shared use.

SCLP proposes to install nine (9) Swedcom Model ALP-11011 antennas at the 112' level on the tower. Radio transmission equipment associated with these antennas will be located in an approximately 12' x 16' equipment shelter to be set on a concrete slab at the base of the tower. (See Attachment B and C.)

Public Act 94-242 amended the tower sharing provisions of Public Act 93-268 to provide 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." Public Act 94-242, § 6 (c).

Discussion

The shared use of the existing Nextel tower satisfies the criteria stated in Public Acts 93-268 and 94-242 as follows:

A. Technical Feasibility. The existing tower will not require any structural modification to support the proposed antenna installations. SCLP engineers have determined that the proposed antenna installation presents minimal potential for interference to or from existing radio transmissions from this location. The applicant is not aware of any occasion where its operations have caused interference with AM, FM, or television reception. The proposed shared use therefore is technically feasible.

B. Legal Feasibility. Under Public Acts 93-268 and 94-242, the Siting Council has been authorized to issue an Order approving the proposed shared use of a tower facility such as the Nextel facility. P.A. 93-268, § 2; P.A. 94-242, § 6 (c). 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. Section 7 (a) of Public Act 94-242 also directs the Council, in ruling on requests for shared use of facilities to "give such consideration to other state laws and municipal regulations as it shall deem

appropriate". This directive mirrors the prior-existing directive to the Council in C.G.S. § 16-50x (a) with regard to applications for certificates to construct new tower facilities.

SCLP has now entered into a lease with the facility owner for space to install their antennas and equipment shelter. By providing a copy of this submittal to the town, the applicant has notified the Town of its intent to seek Council approval of the proposed shared use of the facility, to avoid construction of a new tower in this area. Under the authority vested in the Council by Public Act 94-242, an Order by the Council approving the shared use would permit the applicant to obtain a building permit for the proposed installation.

C. Environmental Feasibility. The proposed shared use will have a minimal environmental effect, for the following reasons:

1. The proposed installation is similar in appearance to existing equipment at the facility, will have an insignificant incremental visual impact and will not cause any significant change or alteration in the physical and environmental characteristics of the existing site. Because the site has already been cleared to construct the existing facility, the proposed installations will require minimal site preparation work.

2. The proposed installations will not increase the height of the existing tower. The proposed equipment shelter will be located at the base of the tower, within the parcel area currently leased to the tower owner.

3. The proposed installations will not increase the noise levels at the existing facility by six decibels or more and will not emit any noise other than from air conditioning equipment when in use.

4. Operation of the additional antennas will not increase the total radio frequency electromagnetic radiation power density, measured at the tower base, to a level at or above applicable ANSI standards. Power density calculations for the combined transmission facility are presented on the following page.

5. The proposed installations will not require any water or sanitary facilities and will not produce air emissions from any combustion source. After construction is complete (approximately four weeks), the proposed installations will not generate any traffic other than periodic maintenance visits.

The proposed shared use will therefore have a minimal environmental effect and is environmentally feasible.

D. Economic Feasibility. As previously mentioned, the tower owner and the applicant have entered into a mutual agreement to share use of the exiting tower facility on terms agreeable to the parties and is thus economically feasible.

E. Public Safety Concerns. The provision of new or improved cellular phone service in the East Haven and Branford areas through shared use of the existing facility is expected to enhance the safety and welfare of area residents. The public safety benefits of cellular service are illustrated by the recent decision of local authorities in some areas of Connecticut to provide cellular phones to residents to improve local public safety and emergency communications. The proposed shared use of the Nextel facility will likewise improve public safety in the East Haven and Branford areas.

Conclusion

For the reasons discussed above, the proposed shared use of the Nextel tower facility satisfies the criteria stated in Public Acts 93-268 and 94-242 and advances the General Assembly's and the Siting Council's goal of preventing the proliferation of towers. The applicant therefore requests that the Siting Council issue an Order approving the proposed shared use.

Thank you for your consideration of this matter.

Very truly yours,



Peter J. Tyrrell
Springwich Cellular
Limited Partnership

Attachments

cc: Dominick Buonocore - First Selectman, Town of Branford

Branford

SNET Mobility: Antenna center line: 112', Antenna type: ALP11011 (Directional), 19 Channels
 Nextel Antenna center line: 131', Antenna type: DB810K (Omni), 2 Channels

Main Beam Focused at Target (Worst Case)	CT Standard	Frequency	Antenna CL	Distance from Tower			
				0'	10'	100'	
SNET Main Lobe 100 Watts	.5867	880.00	112'	0851102	0844304	0473551	0010544
% Standard				14.5074	14.3915	8.0719	0.1797
Nextel Main Lobe 100 Watts	.5667	850.00	131'	0065486	0065108	0041374	0001105
% Standard				1.1556	1.1490	0.7301	0.0195
Total percent of Exposure:				15.663	15.5405	8.802	0.1992

Main Beam Focused at Horizon (More realistic)	CT Standard	Frequency	Antenna CL	Distance from Tower			
				0'	10'	100'	
SNET Secondary Lobe 1.32 Watts	.5867	880.00	112'	0011235	0011145	0006251	0000139
% Standard				0.1915	0.1900	0.1066	0.0024
Nextel Secondary Lobe 6.31 Watts	.5667	850.00	131'	0004132	0004108	0002611	0000070
% Standard				0.0729	0.0725	0.0461	0.0012
Total percent of Exposure:				0.2644	0.2625	0.1527	0.0036

Nextel Communications

One N. Broadway, 2nd Floor, White Plains, NY 10601
914 421-2600 FAX 914 421-2700



Attachment A

January 17, 1997

Mr. David Mangini
Vice President - Operations
SNET Mobility, Inc.
500 Enterprise Drive, 3rd Floor
Rocky Hill, CT 06067-3900

Re: Branford, CT
Tower Sharing

Dear Mr. Mangini:

This will confirm that Springwich Cellular Limited Partnership has executed an agreement for the leasing of antenna space on our tower and an area for your associated radio equipment building on the property located at Branford, Connecticut.

This letter authorizes you to act for us and on our behalf to apply for all the necessary local, State and Federal permits, certificates and authorizations which may be required for your use of this location.

If you need any further information, please contact us. We look forward to the sharing of our space and facility.

Sincerely,

Smart SMR of New York, Inc.
d/b/a Nextel Communications

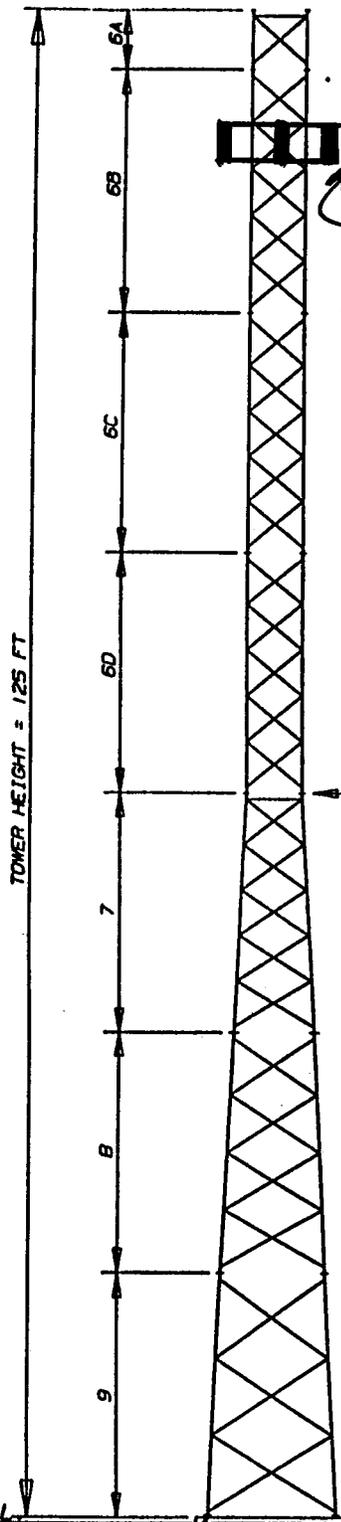
A handwritten signature in black ink, appearing to read "John Pescatore".

John Pescatore
Market President

TOWER DESIGN LOADING				
DESIGN WIND LOAD PER ANSI/EIA-222-E-1991, 85 MPH BASIC WIND SPEED (1/2" RADIAL ICE LOAD). THIS TOWER IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:				
ELEVATION (FT)	ANTENNA TYPE	E.P.A. (SF)		LINE TYPE
		NO ICE	W/ICE	
TOP	12-DBB74H105 & 3-DBB10 W/MOUNTING FRAME & BEACON	134.5 TOTAL	168.4 TOTAL	(12) 1-1/4"

SEE STRESS ANALYSIS FOR A COMPLETE LISTING OF ALL LOADS ON TOWER

TUBULAR MEMBER PROPERTIES		
MEMBER	SIZE	
	O.D. (IN)	THICK. (IN)
PIPE 2.55TD	2.875	0.203
PIPE 3 E.H	3.500	0.300
PIPE 3.5E.H	4.000	0.318
PIPE 4 E.H	4.500	0.337
PIPE 5 E.H	5.500	0.375

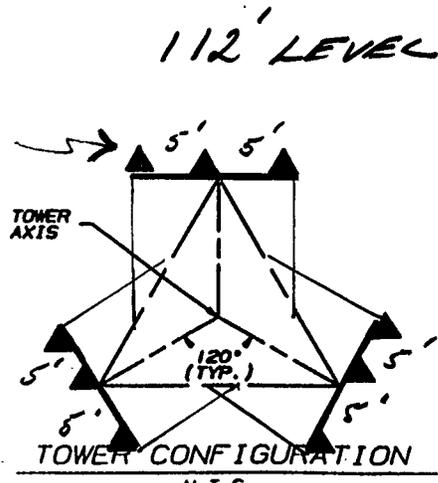


112'
ROHN TOWER
UNIV. MOUNTING FRAME

4 A-BOLTS (12 TOTAL)
1" DIA. X 78" LONG
ASTM A 354 GR. BC

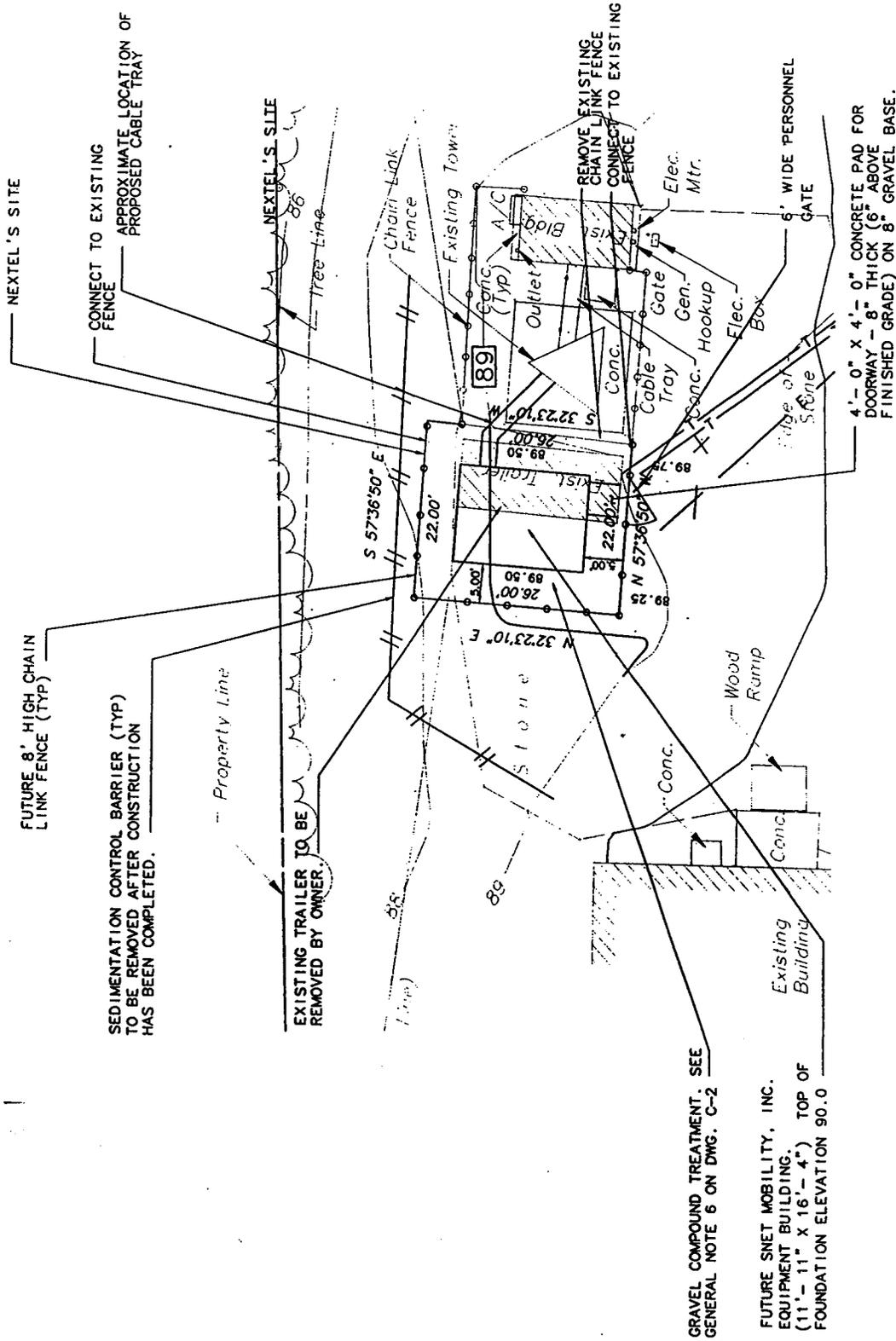
10'-8 3/8"
(NOMINAL)

ALP11011N
ANTENNAS
3 PER FACE
3 FACES
23°, 143°, 263°



TOWER REACTIONS	
COMPRESSION	= 169.1 KIPS
TENSION	= 154.8 KIPS
TOTAL SHEAR	= 10.3 KIPS
O.T.M.	= 1450.0 FT-KIPS

TOWER SITE: CHERRY HILL



NEXTEL'S SITE

CONNECT TO EXISTING FENCE

APPROXIMATE LOCATION OF PROPOSED CABLE TRAY

FUTURE 8' HIGH CHAIN LINK FENCE (TYP)

SEDIMENTATION CONTROL BARRIER (TYP) TO BE REMOVED AFTER CONSTRUCTION HAS BEEN COMPLETED.

Property Line

EXISTING TRAILER TO BE REMOVED BY OWNER

NEXTEL'S SITE

Tree Line

Chain Link Fence

Existing Town

REMOVE EXISTING CHAIN LINK FENCE CONNECT TO EXISTING FENCE

Conc. Cable Tray

Conc. Hookup

Gen. Mtr.

6' WIDE PERSONNEL GATE

4'-0" X 4'-0" CONCRETE PAD FOR DOORWAY - 8" THICK (6" ABOVE FINISHED GRADE) ON 8" GRAVEL BASE.

Wood Rump

Existing Building

Conc.

Future Snet Mobility, Inc. Equipment Building (11' - 11" X 16' - 4") TOP OF FOUNDATION ELEVATION 90.0

GRAVEL COMPOUND TREATMENT. SEE GENERAL NOTE 6 ON DWG. C-2

C-1

Dwg. No. 2 OF 5

Date SEPT. 1998

Scale

Designed by: R. BURNS

Drawn by: M. LOMBARDI

Checked by: A. JOHNSON

Approved by:

Greiner, Inc.

500 ENTERPRISE DRIVE
ROCKY HILL, CONNECTICUT

SNET MOBILITY, INC.

BEAVER ROAD, BRANFORD, CONNECTICUT

SITE MODIFICATION PLAN



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

10 Franklin Square
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January 24, 1997

Honorable Dominick A. Buonocore
First Selectman
Town of Branford
Town Hall, 1019 Main Street
P.O. Box 150
Branford, CT 06405

RE: Springwich Cellular Limited Partnership request for an order to approve tower sharing at an existing telecommunications facility located on Beaver Road in Branford, Connecticut.

Dear Mr. Buonocore:

On January 22, 1997, the Connecticut Siting Council (Council) received a request from Springwich Cellular Limited Partnership to share an existing telecommunications facility located at 4 Beaver Road in Branford, Connecticut pursuant to Connecticut General Statutes § 16-50aa.

The Council will consider this item at the next meeting tentatively scheduled for Wednesday, February 5, 1997, at 2:00 p.m. in Hearing Room Two, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this modification of an existing facility.

Thank you for your cooperation and consideration.

Very truly yours,

A handwritten signature in black ink, appearing to read "Joel M. Rinebold", written over a large, stylized scribble.

Joel M. Rinebold
Executive Director

JMR/ss

Enclosure (1): Request for Tower Sharing