



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

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

February 17, 2000

Peter W. van Wilgen, Director - Real Estate Operations
SNET Wireless, Inc.
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: TS-SCLP-089-000127 - Springwich Cellular Limited Partnership request for an order to approve tower sharing at an existing telecommunications facility located at Loon Lake Road in New Britain, Connecticut.

Dear Mr. van Wilgen:

At a public meeting held February 16, 2000, 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 facility has 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. Any additional change to this facility will require an explicit request to this agency pursuant to § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point 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.

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

The proposed shared use is to be implemented as specified in your letter dated January 27, 2000, and in additional information dated January 31, 2000.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/SLL/sH

c: Honorable Lucian J. Pawlak, Mayor, City of New Britain
Mike Lucy, Site Development Manager, Sprint PCS

RECEIVED

JAN 27 2000

**CONNECTICUT
SITING COUNCIL**

500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7730
Fax: (860) 513-7614

Springwich Cellular Limited Partnership

January 27, 2000

Peter W. van Wilgen
Director - Real Estate Operations

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

**Re: Request by Springwich Cellular Limited Partnership for an Order to
Approve the Shared Use of a Tower Facility located at Loon Lake
Road, New Britain, Connecticut.**

Dear Chairman Gelston:

Pursuant to Connecticut General Statutes (C.G.S.) Section 16-50aa, Springwich Cellular Limited Partnership ("SCLP" or "Applicant") hereby requests an order from the Connecticut Siting Council ("Council") to approve the proposed shared use by the Applicant of an existing tower facility located at Loon Lake Road in New Britain, Connecticut. The property is owned by Elmo Aiuli, from which Sprint Spectrum L.P. ("Sprint") leases property for the tower facility. Sprint owns and operates the tower.

As shown on the attached drawings and as further described below, SCLP proposes to install antennas on the existing tower and to place its equipment in a 12' x 26' equipment shelter located at the base of the tower. The existing fence will be extended to include the building.

The Applicant requests that the Council find that the proposed shared use of the tower facility satisfies the criteria stated in C.G.S. § 16-50aa, and to issue an order approving the proposed use. A copy of this letter is being sent to the Mayor of the City of New Britain.

Background

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

The Sprint facility is located off Exit 35 on Interstate 84, on Loon Lake Road, New Britain, Connecticut, with coordinates of 41° 40' 35.72"N 72° 49' 17.09"W, on which is

located at 118' monopole and three Sprint equipment cabinets located at the base of the monopole. The monopole presently supports Sprint antennas, which provide wireless telecommunication service to the public pursuant to their FCC license. The Applicant and Sprint have agreed to the proposed shared use of this tower pursuant to mutually acceptable terms and conditions. Sprint has authorized the Applicant to apply for all necessary permits, approvals and authorizations, which may be required, for the proposed shared use of this facility.

SCLP proposes to install twelve (12) Allgon Model 7120.16 antennas, approximately 52 inches in height, on a second antenna platform with the center of radiation at approximately 100' above ground level ("AGL").

Statutory Considerations. C.G.S. § 16-50aa 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 and order approving such shared use." (C.G.S § 16-50aa(c)(1).

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

- A. **Technical Feasibility.** The existing tower is structurally sound and capable of supporting the proposed shared use of the proposed SCLP antennas at the 100" level. The proposed shared use of this tower is therefore technically feasible (See attached letter from URS Greiner Woodward Clyde).

- B. **Legal Feasibility.** Under C.G.S § 16-50aa, the Council has been authorized to issue an order approving the proposed shared use of an existing tower facility such as the facility located on Loon Lake Road in New Britain. (C.G.S § 16-50aa(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 Councils 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" in ruling on requests for the shared use of existing tower facilities. Under the authority vested in the Council by C.G.S § 16-50aa, an order approving the shared use would permit the Applicant to obtain a building permit for the proposed installation.

- C. **Environmental Feasibility.** The proposed shared use of this tower facility 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 of the property. The addition of the proposed antennas would not increase the height of the tower. SCLP's equipment will be housed in a 12'x26' equipment shelter located at the base of the tower.

2. The proposed installation would not increase noise levels at the existing facility by six decibels or more.
3. Operation of the additional antennas at this site will not increase the total radio frequency electromagnetic radiation power density levels adopted by the State of Connecticut and the FCC as shown below. "Worst-case" exposure calculations for a point of interest at the base of the tower in relation to the operation of SCLP and Sprint's antenna arrays are as follows:

FREQUENCY	POWER DENSITY	HEIGHT	STANDARD LIMITS (mW/cm ²)	% OF STANDARD
Sprint PCS 1962.5	0.0388610	118'	1.0000	6.62%
SCLP (proposed) 880-894	0.0782586	100'	0.5867	13.34%
TOTAL	N/A		N/A	19.96%

As the table demonstrates, The collective "worst-case" exposure would be only 19.96% of the ANSI/IEE standard, as calculated for mixed frequency sites. Power density levels from shared use of the tower facility would thus be well below applicable ANSI/IEE standards.

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 proposed installation would not generate any vehicular traffic other than periodic maintenance visits. The proposed use of the facility would therefore have a minimal environmental effect, and is environmentally feasible.

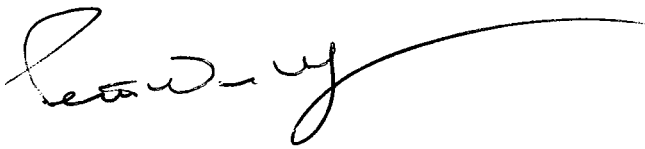
D. **Economic Feasibility.** SCLP has entered into an agreement with Sprint and the property owner to share use of the tower and the new storage building. The proposed facility sharing is therefore economically feasible.

E. **Public Safety Concerns.** As stated above, the existing tower is structurally capable of supporting the Applicant's proposed antennas and fall well below State and Federal Standards. The Applicant is not aware of any other public safety concerns relative to the proposed sharing of the tower. In fact, the provision of new or improved wireless coverage in the area is expected to enhance the safety and welfare of New Britain residents. The proposed-shared use of this facility would improve public safety along I-84 in the City of New Britain

Conclusion

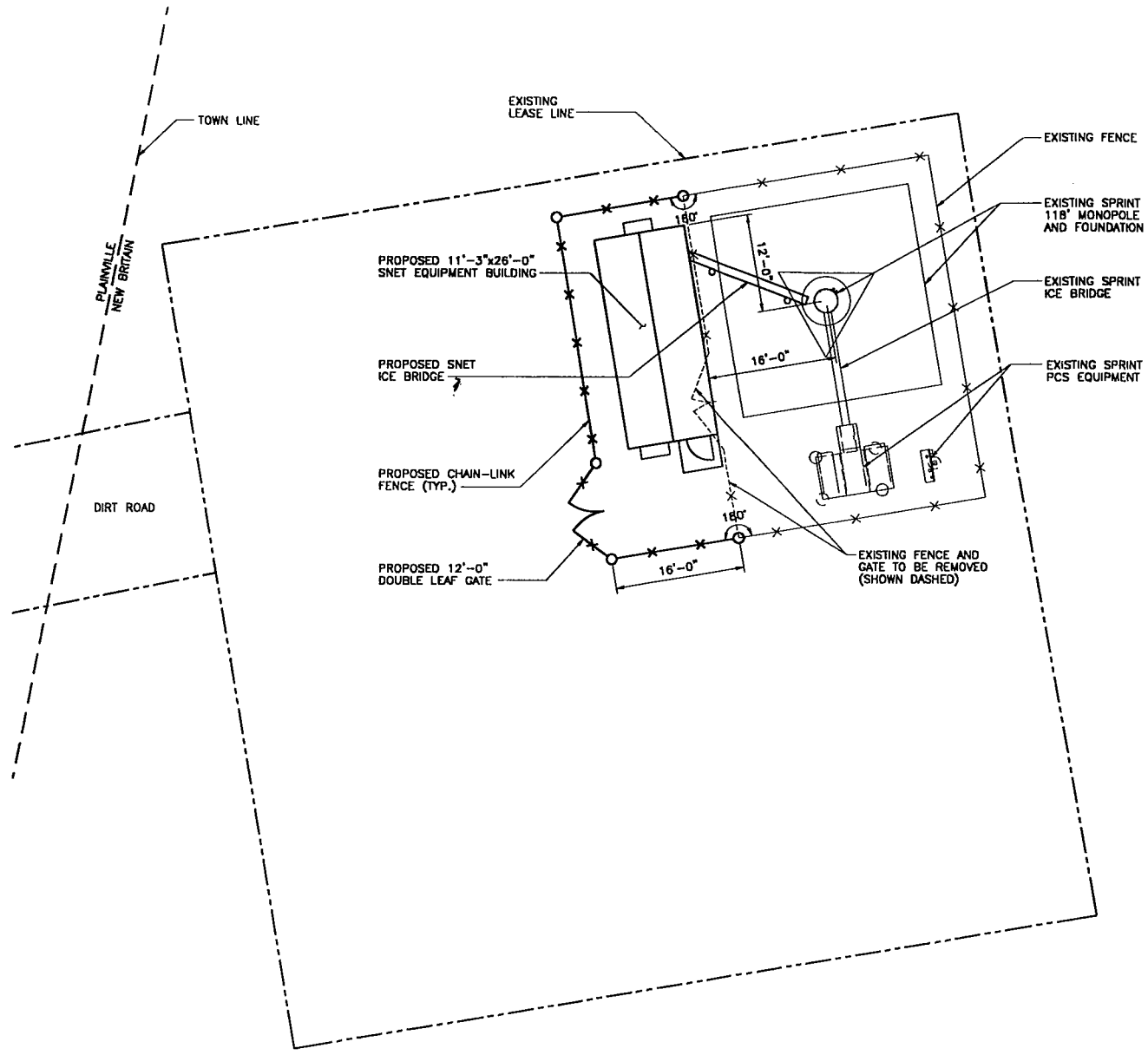
For the reasons discussed above, the proposed shared use of the existing tower facility at Loon Lake Road in the City of New Britain satisfies the criteria stated in C.G.S. § 16-50aa and advances the General Assembly's and the Council's goal of preventing the proliferation of tower in Connecticut. The Applicant therefore respectfully requests that the Council issue an order approving the proposed shared use.

Sincerely,

A handwritten signature in black ink, appearing to read "Lucian Pawlak", with a long, sweeping horizontal line extending to the right.

cc: Honorable Lucian Pawlak, Mayor
Kenneth Mac Master, Sprint PCS

Attachments



1
 L-1 **SITE PLAN**
 SCALE: 1" = 20'

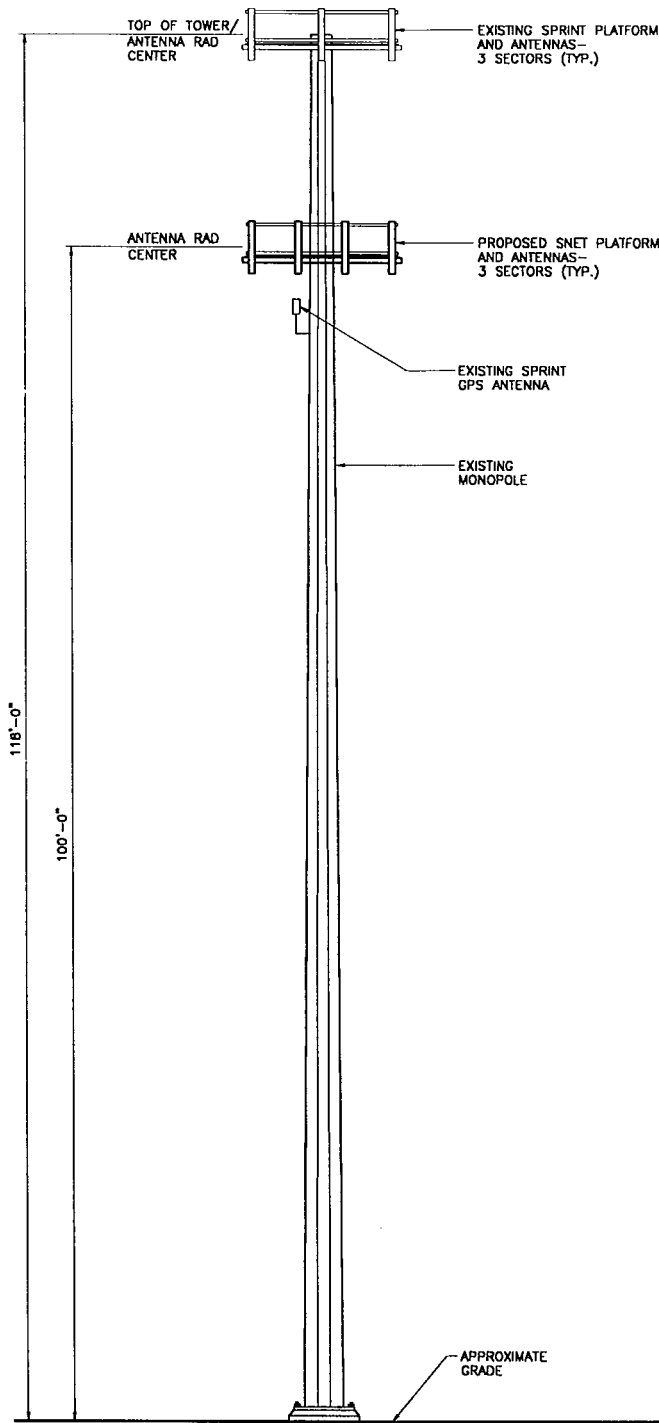
SITE ID NO:
 Designed by:
 Drawn by: CRS
 Checked by:
 Approved by:

URS Greiner Woodward Clyde
A-E-S
 500 ENTERPRISE DRIVE
 ROCKY HILL, CONNECTICUT
 1-(860)-529-8882

SPRINGWICH CELLULAR
LIMITED PARTNERSHIP
WIRELESS COMMUNICATIONS FACILITY
 SITE ADDRESS:
TOWER SITE
LOON LAKE ROAD
NEW BRITAIN, CT

1	01-10-00	REVISED PLATFORM ELEVATION
REV.	DATE:	DESCRIPTION
Scale: AS NOTED		Date: 10-15-99
Job No. F301804.39		File No. L-1

Dwg. No.
L-1
 Dwg. 1 of 2



1 TOWER ELEVATION
 L-2 SCALE: 1/16" = 1'-0"

SITE ID NO:
 Designed by:
 Drawn by: CRS
 Checked by:
 Approved by:

URS Greiner Woodward Clyde
A-E-S
 500 ENTERPRISE DRIVE
 ROCKY HILL, CONNECTICUT
 1-(860)-529-8882

SPRINGWICH CELLULAR LIMITED PARTNERSHIP
WIRELESS COMMUNICATIONS FACILITY
 SITE ADDRESS:
TOWER SITE
LOON LAKE ROAD
NEW BRITAIN, CT

1	01-10-00	REVISED PLATFORM ELEVATION
REV.	DATE:	DESCRIPTION
Scale: AS NOTED		Date: 10-15-99
Job No. F301804.39		File No. L-2

Dwg. No.
L-2
 Dwg. 2 of 2

URS Greiner Woodward Clyde

A Division of URS Corporation

500 Enterprise Drive, Suite 3B
Rocky Hill, CT 06067
Tel: 860.529.8882
Fax: 860.529.3991
Offices Worldwide

January 26, 2000

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

**Reference: Proposed Telecommunications Facility
SNET Mobility
Sprint PCS Monopole
Loon Lake
New Britain, Connecticut
F300001804.39**

Dear Mr. Gelston:

URS Greiner Woodward Clyde (URSGWC) has reviewed the Structural Analysis prepared for Sprint PCS by Rohn dated October 23, 1996 for the Sprint PCS monopole located at Loon Lake Road in New Britain, Connecticut.

The Structural Analysis concluded that the existing monopole and foundation will support the additional loads of the SNET Mobility antennas, platform and coaxial cable and Sprint antennas, platform and coaxial cable. The existing and proposed equipment for this site will be as follows:

- Sprint: 12 DB980H @ 118' and 1 GPS
- SNET: 12 Algon Model 7120.16 @ 100'

Please contact me if there are any questions.

Sincerely,

URS Greiner Woodward Clyde AES


Douglas Roberts, AIA
Project Manager



DJR/ehh

cc: Paul Brann, SNET
I. Artaiz, URSGWC
A. Abadjian, URSGWC

500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7730
Fax: (860) 513-7614

Springwich Cellular Limited Partnership

January 27, 2000

Peter W. van Wilgen
Director - Real Estate Operations

The Honorable Lucian Pawlak- Mayor
City of New Britain-City Hall
27 West Main Street
New Britain, Connecticut 06051

Dear Mr. Pawlak:

Springwich Cellular Limited Partnership (SCLP) plans to install antennas and associated equipment at the existing tower owned by Sprint Spectrum located on Loon Lake Road in the City of New Britain. As required by Section 16-50j-73 of the Regulations of the Connecticut State Agencies (R.C.S.A.), please accept this letter and the attached letter to the Connecticut Siting Council, dated January 27, 2000, as notice of intent to the placement of antennas and associated equipment on an existing tower pursuant to R.C.S.A. Section 16-50g of the General Statutes of the State of Connecticut for the modification of the Sprint Spectrum tower as described herein.

The attached letter fully describes SCLP's proposal. 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) 513-7730 or Mr. Joel Rinebold, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,



Enclosure

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CONNECTICUT SITING CO.

- 2. The proposed installation would not increase noise levels at the existing facility by six decibels or more.
- 3. Operation of the additional antennas at this site will not increase the total radio frequency electromagnetic radiation power density levels adopted by the State of Connecticut and the FCC as shown below. "Worst-case" exposure calculations for a point of interest at the base of the tower in relation to the operation of SCLP and Sprint's antenna arrays are as follows:

FREQUENCY	POWER DENSITY	HEIGHT	STANDARD LIMITS (mW/cm2)	% OF STANDARD
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SCLP (proposed) 880-894	0.0782586	100'	0.5867	13.34%
TOTAL	N/A	N/A	N/A	17.23%

As the table demonstrates, The collective "worst-case" exposure would be only 17.23% 19.96% of the ANSI/IEE standard, as calculated for mixed frequency sites. Power density levels from shared use of the tower facility would thus be well below applicable ANSI/IEE standards.

- 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 proposed installation would not generate any vehicular traffic other than periodic maintenance visits. The proposed use of the facility would therefore have a minimal environmental effect, and is environmentally feasible.

D. Economic Feasibility. SCLP has entered into an agreement with Sprint and the property owner to share use of the tower and the new storage building. The proposed facility sharing is therefore economically feasible.

E. Public Safety Concerns. As stated above, the existing tower is structurally capable of supporting the Applicant's proposed antennas and fall well below State and Federal Standards. The Applicant is not aware of any other public safety concerns relative to the proposed sharing of the tower. In fact, the provision of new or improved wireless coverage in the area is expected to enhance the safety and welfare of New Britain residents. The proposed-shared use of this facility would improve public safety along I-84 in the City of New Britain