EM-SCLP-057-990727
(DO150)

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July 27, 1999

Peter W. van Wilgen
Director- Real Estate Operations

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

RE: Notification by Springwich Cellular Limited Partnership Pursuant to the Regulations of Connecticut State Agencies §16-50j-73 of a Modification of an Existing Facility Tower (Docket No. 150) located at 1 Butternut Hollow Road, Greenwich, Connecticut.

Dear Chairman Gelston:

The following package contains notification by Springwich Cellular Limited Partnership (SCLP or applicant) of its intent to modify an existing facility tower owned by the Connecticut State Police (CSP) in the Town of Greenwich.

Pursuant to the Regulations of Connecticut State Agencies (RSA) §16-50j-73, SCLP hereby notifies the Connecticut Siting Council (Council) and the Honorable Tom R. Ragland of its intent to modify and use an existing CSP facility tower located at 1 Butternut Hollow Road, Greenwich, Connecticut (Docket No. 150). SCLP proposes to relocate its antennas on the tower and replace coaxial cable.

Background

SCLP is licensed by the Federal Communications Commission (FCC) to provide cellular telephone service within the State of Connecticut.

The tower is a 180 foot AGL self-supporting lattice tower. SCLP proposes to relocate its existing nine Allgon Model 7120.16 antennas from their existing location at 105 feet AGL to 150 feet AGL.

RSA §16-50j-71 states that the modification of a facility tower shall not have a substantial adverse environmental effect, if criteria, listed in RSA §16-50j-72(b)(2) are met. The criteria in RSA §16-50j-72(b)(2) are described as "Changes on an existing tower site that do not:

- **Increase the tower height.** SCLP's antenna relocation from 105 feet to 150 feet on the 180 foot tower will not increase the height of the tower.
- **Extend the boundaries of the tower site.** SCLP's equipment is currently located in an existing equipment building and will not be moved. SCLP's proposal will not affect the boundaries of the tower site.
- **Increase noise levels at the tower site boundary by 6 decibels.** The existing air conditioning units used to cool the associated SCLP equipment will not be changed.
- **Add radio frequency sending or receiving capability which increases the total radio frequency electromagnetic radiation power density measured at the site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to Section 22a-162 of the Connecticut General Statutes.** The relocation of SCLP's antennas from 105 feet to 150 feet will actually reduce SCLP's power density output, and will not result in the total of the radio frequency electromagnetic radiation power density

measured at the site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to §22a-162 of the Connecticut General Statutes (see Table 1).

TABLE 1

	Freq. (MHz)	Power (Watts)	Channels	Applicable ANSI Std.	Calculated Worst-case	Percentage of MPE
SCLP (at 150 ft. AGL)	880-894	100	19	0.5867 mW/cm²	0.0332 mW/cm²	5.66
* Bell Atlantic (at 125 ft. AGL)	869	100	19	0.5793 mW/cm²	0.0487 mW/cm²	8.41
* Sprint PCS (at 115 ft. AGL)	1962	122	11	1.000 mW/cm²	0.0410 mW/cm²	4.10
* Nextel (at 105 ft. AGL)	851	100	8	0.5673 mW/cm²	0.0297 mW/cm²	5.24
* CSP (at 180 ft. AGL)	866.7125	25	1	0.5778 mW/cm²	0.0003 mW/cm²	0.05
* CSP (at 180 ft. AGL)	866.0125	25	1	0.5773 mW/cm²	0.0003 mW/cm²	0.05
* Greenwich (at 180 ft. AGL)	866.7875	25	1	0.5779 mW/cm²	0.0003 mW/cm²	0.05
* Omnipoint (at 135 ft. AGL)	1945	20	3	1.0000 mW/cm²	0.0013 mW/cm²	0.13
* Greenwich (at 167 ft. AGL)	18700	1	1	1.0000 mW/cm²	0.0001 mW/cm²	0.01
* DOT (at 180 ft. AGL)	42.8-43.8	100	1	0.2000 mW/cm²	0.0012 mW/cm²	0.60
* NU (at 150 ft. AGL)	928-952	5	1	0.6187 mW/cm²	0.0001 mW/cm²	0.02
* NU (at 150 ft. AGL)	150-158	250	1	0.2000 mW/cm²	0.0044 mW/cm²	2.20
* NU (at 80 ft. AGL)	37.8	100	1	0.2000 mW/cm²	0.0067 mW/cm²	3.35
* NU (at 165 ft. AGL)	944-962	5	1	0.6293 mW/cm²	0.0001 mW/cm²	0.02
* NU (at 150 ft. AGL)	450-460	100	1	0.3000 mW/cm²	0.0017 mW/cm²	0.57

Table 1 (Continued)

* NU (at 60 ft. AGL)	47.86	100	1	0.2000 mW/cm²	0.0125 mW/cm²	6.25
* CSP (at 176 ft. AGL)	6605	1	1	1.0000 mW/cm²	0.0001 mW/cm²	0.01
				TOTAL		**36.71**

* Information necessary for calculation of other tenant's power density provided by the CSP. Other antennas not listed are receive only.

The collective worst-case general population/uncontrolled exposure would be 36.71 percent of the ANSI standard, as calculated for mixed frequency sites. Power density levels from shared use of the tower facility would thus be below applicable ANSI standards.

For these reasons, SCLP requests that the Council acknowledge that the proposed changes comply with the criteria specified in RSA §16-50j-72(b)(2) and rule that the proposed modification will not have a substantial adverse environmental effect pursuant to RSA §16-50j-71.

Very truly yours,

Peter W. van Holsen (mav)

Attachments

cc: Tom R. Ragland, First Selectman
Diane Fox, Town Planner