



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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Petition No. 326
Springwich Cellular Limited Partnership
UConn Health Center
Staff Report
July 26, 1994

At a public meeting on July 14, 1994, the Connecticut Siting Council (Council) did not acknowledge a notice from the Springwich Cellular Limited Partnership (Springwich) of an exempt modification of an existing cellular telecommunications facility because it was not consistent with regulatory criteria provided by section 16-50j-72 of the Regulations of Connecticut State Agencies. Petition No. 326 seeks a Council determination on Springwich's need to acquire a Certificate of Environmental Compatibility and Public Need for this proposed project.

Springwich is proposing to remove an existing 80-foot guyed lattice tower (16 inch (in.) X 16 in. X 16 in.) that is at its design load limit and approaching the end of its usable service life, and replace it with another 80-foot guyed lattice tower (24 in. X 24 in. X 24 in.). The new tower design was engineered and selected specifically for the UConn Health Center roof with assistance from the UConn Health Center's Physical Plant Engineering Department.

The existing tower has five antennas, three that are operated by the UConn Health Center and two operated by Springwich as a cellular telecommunications enhancer (a modification approved by the Council on June 29, 1993). The proposed new tower would retain the UConn Health Center antennas. Springwich proposes to replace the two cellular antennas with nine directional cellular antennas at the 80-foot level of the tower. The cellular equipment would be placed on the penthouse level of the building.

The maximum (i.e. "worst case") radio frequency power density calculations at the point where the highest radio frequency lobe is directed (43 feet from the tower base) indicates that the cellular antennas would emit 0.0026 milliwatts (mW) per square centimeter (cm²) or 0.44 percent of the Connecticut standard. The total worst case radio frequency power density (Springwich plus UConn's antennas) is 13.03 percent of the State standard.

Springwich contends that the proposed construction would not have a substantial adverse environmental effect.

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