SPRINT NEXTEL CORPORATION

APPLICATION FOR A CERTIFICATE OF ENVIRONMENTAL COMPATIBILITY

AND PUBLIC NEED FOR A TELECOMMUNICATIONS FACILITY AT

150 WILLOW STREET

IN

HAMDEN, CONNECTICUT

October 27, 2006

ATTACHMENTS

1. U.S.G.S. Topographic Map & Aerial Map
2. Application Guide
3. Affidavit of Publication
4. Abutters List

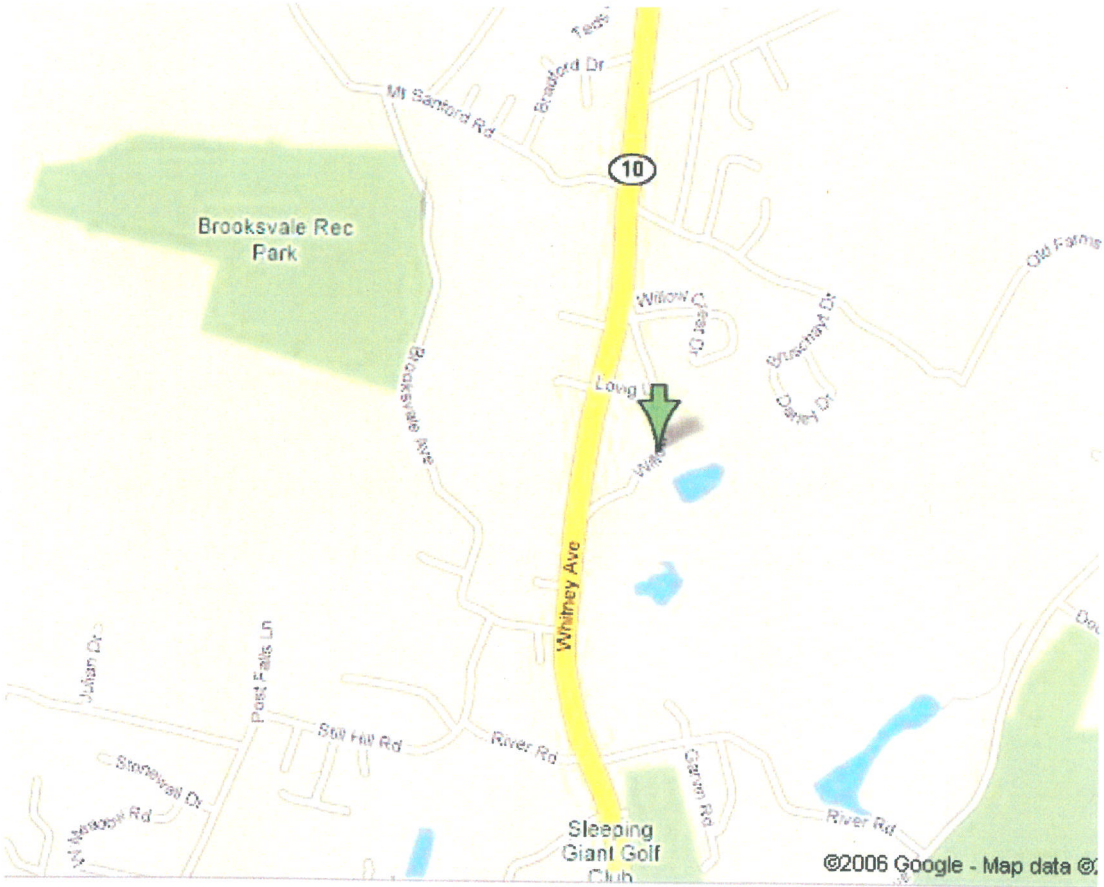
   Sample Letter to Abutters

   Return Receipts
5. Proof of Service List
6. U.S.G.S. Topographic Map of Existing Structures in Area
7. 60-day Notice to the Town of Hamden
8. 60-day Notice to the Town of Cheshire
9. Site Plan
10. Construction Schedule

    Cost Estimate
11. Coverage Plots
12. Visual Resource Evaluation Report
13. Power Density Analysis Chart
14. NEPA Report

OVERVIEW

Location	150 Willow Street
Property Owner	Hamden Fish & Game Protective
CDMA (Sprint) or iDEN (Nextel) Site	CDMA (Sprint) Site Only
Coverage Objective	Route 10 in Hamden & Cheshire
Monopole Height (including antennas)	160'
Sprint's Antenna Centerline	157'
Compound Size/ Lease Area	50' x 50' / 100' x 100'
Monopole Designed to Accommodate How Many Carriers	5
Fall Zone on Property	Yes



INTRODUCTION

Sprint Nextel Corporation ("Sprint") hereby applies to the Connecticut Siting Council ("Council") for the issuance of a certificate of environmental compatibility and public need for the construction, maintenance and operation of a telecommunication facility ("Facility") at 150 Willow Street in Hamden, Connecticut (the "Site") (collectively, the "Application"). A U.S.G.S. topographic map and aerial photograph identifying the location of the Site are included under Tab 1. The Facility will have a 160-foot monopole with Sprint's antenna centerline at 157 feet.

SECTION 1. PRELIMINARY INFORMATION

A. STATUTORY AUTHORITY

The Application and accompanying attachments are submitted pursuant to Conn. Gen. Stat. § 16-50g et seq., and Conn. Agencies Regs. § 16-50j-1 et seq. The Application follows the format prescribed in the Council's "Application Guide for Community Antenna Television and Telecommunications Facilities," dated June 23, 2004 (the "Application Guide"). A copy of the Application Guide, with page number references to the Application, is included under Tab 2.

B. LEGAL NAME OF THE APPLICANT

Sprint Nextel Corporation is a Delaware corporation. Sprint's principal business offices are located at One International Boulevard, Suite 800, Mahwah, New Jersey 07495. Telephone No. (201) 684-4000.

Sprint is licensed by the Federal Communications Commission ("FCC") in many major United States trading areas, including Connecticut.

C. CORRESPONDENCE AND SERVICE

All communications and correspondence with regard to this Application should be addressed to:

Thomas J. Regan
Brown Rudnick Berlack Israels LLP
CityPlace I, 38th Floor
185 Asylum Street
Hartford, CT 06103-3402
Phone: 860-509-6522
Fax: 860-509-6501
Email: tregan@brownrudnick.com

D. NOTICE

Pursuant to Conn. Gen. Stat. § 16-50*l*(b), public notice of Sprint's intention to file this Application was published in the New Haven Register on October 17 and 19, 2006. An Affidavit of Publication by the New Haven Register is included under Tab 3.

On October 16, 2006, all abutting landowners were given notice of the filing of the Application via certified mail. The list of abutters, a sample letter to the abutters, and the return receipts received to date are included under Tab 4. As of October 26, 2006, four return receipts were outstanding: George L. Parente, Linus L. Darley, John Candella & Salvatore Hoo, and the State of Connecticut Nature Preserve. The certified mail receipts for those four abutters are included under Tab 4. A copy of the outstanding return receipts will be sent to the Council as soon as they are received. If the return receipts are not received in approximately one month, the letters will be resent via first class mail, no return receipt requested.

E. APPLICATION FEE

Pursuant to Conn. Agencies Regs. §16-50v-1a, the filing fee for this Application ($1,000.00) was paid to the Council at the time of filing.

F. PROOF OF SERVICE

Included under Tab 5 is a list of the individuals and agencies that will receive a complete copy of this Application via first class mail, pursuant to Conn. Gen. Stat. § 16-50*l*(b).

SECTION 2. PURPOSE & GOALS OF THE FACILITY

A. NEED

The United States Congress, in the Telecommunications Act of 1996, determined that there exists a national need for wireless services such as those provided by Sprint. In making such a determination, the federal government preempted the states' need to make that determination. The Telecommunications Act of 1996 also sought to foster competition in the marketplace and prohibit states from discriminating against functionally equivalent wireless carriers. Therefore, although a particular area may already have wireless coverage provided by a different carrier, Sprint has the right to also offer its services in that same area.

Today, many of Sprint's customers rely on their wireless service to be functional in their homes as well as on the road. As a result, Sprint aims to not only cover the all major roads but the surrounding areas as well, many of which are residential. In this case, Sprint's Radio-Frequency Engineering Department has identified a significant gap in wireless service along Route 10 as well as the surrounding areas of Cheshire and Hamden. The location and extent of the gap in Sprint's coverage was determined by analyzing the drive test data from surrounding facilities and analyzing call statistics and propagation models. Collectively, this data demonstrates that Sprint's customers are experiencing difficulty originating new calls and they are also experiencing a high number of dropped calls (greater than 2%) in the area. Overall, these factors result in substandard service along Route 10 and the surrounding areas of Hamden and Cheshire.

B. Statement Of Benefits

The addition of a wireless telecommunications facility in this area will have both economic and public welfare benefits. While this Site will benefit wireless subscribers, it will also improve public safety in the area.

Wireless services are beneficial to residents, business people and tourists traveling through Hamden. Typically, business people such as deliverymen, repairmen, veterinarians, salesmen, real estate agents and construction personnel find that having cellular service is essential in allowing them to remain accessible while traveling. Even people who do not have cellular service benefit from the ability to easily contact traveling cellular service subscribers.

Not only will Sprint's customers benefit from this facility, customers of other carriers who do not currently have coverage in the area will also benefit. Sprint is actively marketing space on this Facility to competing wireless providers in order to minimize the proliferation of towers in Hamden. To date, no other carriers have expressed an interest in collocating.

Sprint's improved wireless service will also offer a great benefit to the public in that safety and emergency situations can be quickly reported and, in turn, responded to by state or municipal officials. To that end, Sprint will allow the Town of Hamden (the "Town") and any emergency response system to use the Facility without charge, provided it is consistent with the structural integrity of the monopole. The Town has not expressed an interest in using the Facility at this time; however, the offer will stand in the future.

This Facility will also be in compliance with the requirements set forth in the Wireless Communications and Safety Act ("Act") passed by Congress in 1999 (otherwise known as the "Enhance 911" or "E911" requirements). Enhanced 911 service gives emergency dispatchers the

ability to answer wireless calls promptly, obtain the caller's mobile number, and pinpoint the calling location. Sprint is currently in the final phase of implementing the E911 requirements.

SECTION 3. SITE SEARCH

A. TECHNICAL ALTERNATIVES

Sprint is a telecommunications company operating two technologies (CDMA and iDEN) at significantly different frequency bands. Sprint's CDMA network operates at 1900 megahertz ("MHz") and Sprint's iDEN network operates in the 800/900 MHz band. This Facility is part of the CDMA network and is not needed at this time by the iDEN network.

Code division multiple access ("CDMA") technology is an all-digital system that allows for increased capacity over analog cellular, allowing the system to handle more calls. This higher frequency signal however, limits the geographic area in which a tower is able to transmit to and from because the higher frequency signal degrades quickly in hilly areas and in areas of dense foliage.

Consequently, in order to provide adequate service, significant height must be used for the tower and the mobile to communicate with each other. In some cases, communication from the tower to the mobile can be improved by using higher power at the tower. However, this approach will not improve communication from the mobile to the tower.

The CDMA network does utilize technologies such as repeaters and microcells. A repeater is a low power system which receives (borrows) a signal from an existing site and then amplifies that signal for rebroadcasting in the target area. A microcell is a low power system resembling a smaller version of a cell site. These technologies are useful for filling small gaps in coverage or providing service in buildings, but are severely limited by the amount of coverage they can provide and by their capacity. The current gap in CDMA service in the Hamden area is

significant; for that reason, technologies such as repeaters and microcells are not viable options to cover the portions of Route 10 and the surrounding areas of Hamden and Cheshire that Sprint is looking to cover with this full CDMA site.

B. CANDIDATE SEARCH

After analyzing its significant gap in CDMA coverage in Hamden, Sprint used computer modeling to identify an area where a telecommunication facility must be located to provide the requisite coverage. Once the area was designated, Sprint's Real Estate Department searched for existing buildings, structures and towers in the area suitable for Sprint's purposes. In this case, none of the existing sites allowed Sprint to meet its coverage objectives. All of the rejected candidates are identified on the topographic map included under Tab 6. The existing sites Sprint evaluated are as follows:

Site	Location	Evaluation
CT54XC773-01 NU Power Mount	150 Willow Street Hamden	Does not satisfy all coverage objectives.
CT54XC773-02 NU Power Mount #2466	450 Tuttle Ave. Rear Hamden	Does not satisfy all coverage objectives.
CT54XC773-03 NU Power Mount #2465	450 Tuttle Ave. Rear Hamden	Does not satisfy all coverage objectives.
CT54XC773-04 NU Pole	Old Lane Road Cheshire	Does not satisfy all coverage objectives.
FD Whip	King Road Cheshire	Does not provide the required coverage to Rt. 10.
NU Pole #1	Brooksvale Avenue Hamden	Does not provide the required coverage to Rt. 10 to the south of the site.
NU Pole #2	Gaylord Mountain Rd. Hamden	Does not provide the required coverage to Rt. 10 to the north of the site.
NU Pole #3	Cook Hill Road Cheshire	Does not provide the required coverage to Rt. 10.
NU Pole #4	Mansion Road Wallingford	Does not provide the required coverage to Rt. 10.
Golf Range Pole	Brooksvale Avenue Hamden	Does not provide the required coverage to Rt. 10 to the south of the site.
NU Pole #5	Turtle Avenue Wallingford	Does not provide the required coverage to Rt. 10.
Silo	Kenwood Road Hamden	Does not satisfy all coverage objectives.
Quinnipiac University Building	Hogan Road Hamden	Does not satisfy all coverage objectives.

Site	Location	Evaluation
Cingular Flagpole at Quinnipiac University	New Road Hamden	Does not satisfy all coverage objectives.
Old AT&T Tower	Higgins Road Cheshire	Does not provide the required coverage to Rt. 10.

When the effort to find an existing tower or structure has been unsuccessful and Sprint must build a new facility, as is the case in Hamden, it is Sprint's policy to build a facility to accommodate other wireless providers and any needs the municipality may have, including fire and rescue services. This monopole will accommodate a total of five carriers.

C. CONSULTATION WITH THE TOWNS OF HAMDEN AND CHESHIRE

On July 27, 2006, Sprint provided notice of the filing of this Application with Craig Henrici, Mayor of the Town of Hamden.[1] Sprint enclosed a package of materials with that letter including: a radio-frequency engineering information packet, a site plan and a visual resource evaluation report. Because the package of materials is substantially similar to the documents included in this Application, only a copy of the cover letter and the radio-frequency engineering report have been included under Tab 7. Sprint contacted the Town by telephone on several occasions to discuss the notice and to inquire as to whether the Town wanted to set up a meeting or provide comments on the notice. The Town did not respond to Sprint's offer and did not provide Sprint with any comments on the notice.

Due to the Facility's proximity to the Cheshire town line, on July 27, 2006, Sprint provided Matt Hall, Chairman of the Cheshire Town Council, with a copy of the notice (Tab 8)[2]. William S. Voelker, Cheshire Town Planner contacted Sprint to indicate that the Town of Cheshire did not have any comments on Sprint's notice.

[1] Leslie Creane, Town Planner, was copied (with enclosures) on the letter to Mayor Henrici.
[2] William S. Voelker, Town Planner, was copied (with enclosures) on the letter to Chairman Hall.

SECTION 4. THE SITE

A. LOCATION & LAND USE

The Facility is located on a 87-acre parcel located at 150 Willow Street in Hamden, Connecticut (Map 3430, Lot 1). The parcel, which is owned by the Hamden Fish and Game Protective, spans Willow Street and consists mainly of undeveloped, forested land with a firing range. The Facility will be located on the portion of the parcel to the east of Willow Street. Land use in the general area is comprised of medium-density, residential development; undeveloped forested lands; and overhead electrical utility infrastructures and associated rights-of-way. The State of Connecticut Nature Preserve owns the large parcel to the east and the South Central Connecticut Regional Water Authority owns the large parcel to the south. To the north and west of the subject parcel are smaller, residential tracts. Topography in the area is generally characterized by rolling hills that range in elevation from approximately 150 feet above mean sea level ("AMSL") to just over 700 feet AMSL at the base of the Sleeping Giant State Park lookout tower. A site plan is included under Tab 9.[3]

The Hamden Zoning Regulations address telecommunication facilities in Article VII, Section 737 (beginning on page VII-35). Although this Facility is not subject to Hamden's local zoning regulations, Sprint's Application to the Council fulfills many of the goals of Hamden's zoning regulations. According to the preamble to Section 737, part of the purpose in regulating telecommunication towers in Hamden is to "protect the scenic, historic, environmental and natural or man-made resources of the community", to "minimize the total number and height of towers throughout the community" and "require tower sharing". (Hamden Zoning Regulations, page VII-35). Later in this Application Sprint will demonstrate that the Facility will not have an adverse

environmental impact on the scenic, historic and environmental resources of the community. In addition, Sprint has indicated its willingness to allow multiple carriers and the Town of Hamden to use the monopole to avoid the proliferation of towers in this area. The Town of Hamden Zoning Regulations and Inland Wetlands & Watercourses Regulations are not included herein but have been bulk filed.

B. ACCESS ROAD

Access to the Site emanates from Willow Street and follows an existing paved and gravel road that leads to a pavilion / firing range. Shortly before reaching the pavilion, Sprint's access road veers west for approximately 150 feet to the compound. Sprint's access road will be 12 feet wide and topped with gravel.

C. MONOPOLE

The 160-foot monopole will have space for a total of five carriers. Sprint will be located at the top of the monopole with its antenna centerline at 157 feet. Sprint will have twelve panel antennas mounted on a triangular platform. The monopole will also have a global positioning system antenna mounted at 50 feet.

The monopole will be designed and constructed in accordance with the American National Standards Institutes/Electronic Industries Association's Manual #222 -- Revision F, "Structural Standards for Steel Antenna Towers and Antenna Support Structures." The exact foundation design, diameter and thickness of the structure will be determined by the manufacturer based on specified loading and soil analyses for the Site.

D. COMPOUND

The 50-foot by 50-foot compound is located within the 100-foot by 100-foot lease area and

[3] Four full-sized site plans have been bulk filed.

will be surrounded by a 6-foot high chain link fence with three strands of barbed wire at the top. Inside the compound, Sprint will construct a 20-foot by 9-foot 6-inch concrete equipment pad at the base of the monopole to house the equipment that transmits and processes its signals. On the equipment pad will be the power, battery, radio and growth cabinets. The cabinets will be large enough to house the transmitters and receivers for the channels at the cell site. The cabinets will also house wireless switching, processing and monitoring equipment, as well as equipment for power conversions and grounding for surge protection. The equipment will be of a solid-state nature and will emit negligible amounts of noise. The noise emitted by the equipment, in accordance with Connecticut Department of Environmental Protection ("DEP") standards, will not increase the noise levels at the property boundaries beyond acceptable levels. A waveguide bridge will connect the monopole to the equipment cabinets.

A construction schedule and cost estimate for the Facility are included under Tab 10.

E. POWER SUPPLY

Sprint's telephone and electric utilities will travel underground to the compound. In addition, to maintain operations during emergencies involving power outages, the Facility will be equipped with an extensive battery back-up system. According to the manufacturers, the battery has the capacity to power the system for 18 to 24 hours. More realistically, Sprint expects that at a 50 percent load, the battery will last approximately six to eight hours. Typically, Sprint plans for a six hour power outage. If the power outage exceeds 24 hours, Sprint may locate a diesel powered electrical generator at the Facility on a temporary basis. Emergency power is provided to the switching system via a plug placed in the equipment cabinet.

SECTION 5. COVERAGE

A. HEIGHT JUSTIFICATION

Sprint's Radio-Frequency Engineering Department has identified a critical coverage gap along Route 10 as well as in the immediately surrounding areas of Hamden and Cheshire. This gap was confirmed by using computer software that measures the signal strength from the facilities in surrounding communities. This gap was also confirmed by drive test data.

For Sprint to fill this deficiency in coverage and allow the Site to work in conjunction with its other surrounding sites, Sprint has determined, after extensive analysis, that the minimum antenna centerline needed is 157 feet. That height ensures adequate signal strength at the periphery of the coverage area. At a lesser height, the coverage provided at the periphery would severely limit Sprint's capability to hand-off calls to adjacent sites. As the traffic at this Site and the surrounding sites increases, the quality of the signal at the periphery will deteriorate and result in dropped calls. Sprint considers an acceptable signal strength to be -94 dBm for rural areas and -79 to -84 dBm for urban areas. Clearly, a network cannot be built effectively relying on the minimum signal strength. Therefore, it is crucial to maintain more than the absolute minimum signal level at this Site.

Two coverage plots have been included under Tab 11. The first plot demonstrates Sprint's current coverage in the area. The second plot demonstrates the coverage provided by the Facility in conjunction with the surrounding sites. Also included under Tab 11 is a table of site information used to generate the coverage plots. Some of the sites listed on that table are outside of the plot view but were included to ensure the coverage plots provide an accurate representation of the coverage in the area.

B. FORECAST OF MAXIMUM CAPABILITY

The digital technology that drives Sprint's PCS network is called code division multiple access technology. CDMA is a "spread spectrum" technology that enables multiple signals to share a single transmission channel, maximizing the use of available bandwidth. Therefore, Sprint's data transmission will not degrade with network usage. Overall, CDMA technology provides for clearer calling, fewer dropped calls, improved security and greater capacity.

By using CDMA technology, Sprint is able to provide a P.02 grade of service. A P.02 grade of service means that a subscriber of the system will be able to place calls ninety-eight percent of the time during the busiest (peak) hours of the day. During non-peak times, the grade of service will be better than P.02.

Cells, which are designed and equipped for a given capacity, will normally operate at much less than full capacity during the growth of the system. Accordingly, Sprint will provide a much better grade of service when the traffic in each cell increases to meet the design loading conditions. As Sprint's digital network evolves, Sprint monitors the actual grade of service on a cell-by-cell basis. Factors affecting the grade of service are:

- call attempts,
- call holding time,
- call distribution over time (average and peak), and
- call distribution over geography (users in weaker coverage areas negatively affect the capacity of the cell).

If the grade of service for any single cell site falls below the desired grade of service, Sprint will take steps to expand its facilities which serve that cell. These steps can include:

- antenna changes,
- cell balancing through call processing parameters and power adjustments, and
- adding channels.

These steps all serve to delay the process of cell splitting. Based on the current and

projected number of subscribers as well as current and projected usage patterns, it is anticipated that cell splitting at this location will not be required for at least five years.

SECTION 6. ENVIRONMENTAL IMPACT

A. MITIGATION MEASURES

The selection and design of the access road and compound at the Site has taken into account potential impacts to: wetlands and water resources; air quality; noise; traffic patterns; visibility and aesthetics; vegetation; wildlife; and historic, architectural, archaeological, cultural and recreational resources. The following review demonstrates that the activities proposed by Sprint will not cause a significant change or alteration in the physical and environmental characteristics of the Site.

(1) Water Resources

No adverse impact on water resources is anticipated as a result of the operation of the Facility. The Facility will not require any water usage nor is any wastewater discharge associated with the Facility. Furthermore, there are no water supply or sanitary facilities at the Facility.

The greatest potential for impacts on water resources exist from soil erosion and sedimentation during Site development. Absent control measures, exposed soil surfaces could be vulnerable to erosion from direct precipitation and storm water runoff. Eroded soils could be carried to downstream water courses and/or wetlands and deposition of soil sediments within wetlands or water courses could, in turn, have an adverse impact on wetlands, in-stream flora and fauna as well as water quality.

Therefore, the plan of development for the Facility will include erosion and sediment control measures designed in accordance with the Connecticut Guidelines for Soil Erosion and Sediment Control. These erosion and sediment control measures will perform one or more of the

following functions: minimization of soil exposure, control of runoff, shielding of the soils, binding of the soils and trapping of sediments. Prior to any land disturbance activities, sediment barriers will be installed downslope of all areas where soil will be exposed. Upon completion of site work, all disturbed areas will be permanently stabilized with seed and mulch.

In addition, the physical structures and access drive will be made of common building materials and will not produce any environmentally damaging leachates. No transformers containing poly-chlorinated biphenyls (PCBs) will be used at the Site.

(2) Wetlands

There were no wetlands or watercourses identified or delineated within the proposed development areas at the Site. The closest wetland resource to the Facility is an intermittent watercourse and narrow bordering wetland system located approximately 200 feet to the east. A paved access drive and pavilion currently exist between the wetland resource and the proposed development area. Therefore, Sprint does not anticipate that the nearby wetland will be significantly affected by the proposed development at the Site due to the existing disturbance and the distance separating the development from the nearest wetland resource.

As no direct impacts to federal wetlands are associated with Sprint's construction activities, no significant change in surface features (e.g., wetland fill, deforestation or water diversion) will result at the site, in accordance with the National Environmental Policy Act ("NEPA") categorical exclusion list. Further information on the wetlands is provided in the NEPA review section of the Application.

(3) Air Quality

No air pollutants will be generated during the normal operation of the Facility. If a power outage occurs which exceeds 24 hours, a diesel powered electrical generator may be brought to

the Site. Emergency power is provided to the switching system via a plug placed in the equipment building wall. Since its use will be infrequent, only minimal discharges of the by-products of combustion (exhaust gases) will occur. These infrequent discharges are not expected to have an adverse impact on air quality.

The only vehicular access to the Site will be for regularly scheduled equipment maintenance and emergency repairs. On average, one trip per month to the Facility is expected. Thus, impacts on air quality from automobile exhaust emissions are expected to be minimal.

(4) Noise

The only noise associated with the Facility will be during the construction of the foundation for the monopole base and during the erection of the pole and the attachment of the antennas. The noise from the construction is anticipated to last approximately six weeks. Noise associated with the use of the portable generator will be infrequent and diminished by the remote location of the Facility and the surrounding vegetation.

(5) Traffic Pattern

During construction, the project will generate a small amount of traffic as workers arrive and depart and materials are delivered. Traffic generation will be comparable to that generated by the construction of a single family house. Upon completion, traffic will be limited to an average of one monthly maintenance and inspection visit. No traffic problems are anticipated.

(6) Visibility and Aesthetics

The aesthetic impacts associated with the Facility have been minimized to the greatest extent possible. The equipment pad and associated ground mounted equipment will be relatively small. The visibility of the monopole is diminished by the relatively slim width of the pole, its

construction of galvanized steel (which weathers to a non-reflective gray finish to blend with the sky), and the existing vegetation.

(7) Vegetation

The Site consists of 87 acres of mainly undeveloped, forested land with a firing range. Access to the Facility generally follows an existing paved and gravel access drives that lead to the firing range. The Facility is located in a wooded area near the firing range. This forested area is characterized as second growth forest dominated by sugar maple, Norway maple, black oak, red cedar ranging in size from 6- to 12-inch diameter at breast height. The understory is moderately vegetated and dominated by autumn olive.

(8) Wildlife

Although the aforementioned habitat could provide some cover for wildlife, the Facility is not anticipated to have a significant impact on wildlife due to the relatively small area of disturbance to the forested area and existing nearby human disturbance (firing range). Potential impacts during construction of the Facility include displacement of wildlife from the construction zone around the compound. However, suitable habitat is located in close proximity to the Facility to allow for natural relocation of potential wildlife from the construction zone.

As a result, no long-term impacts on wildlife are anticipated from the proposed activities at the Site. Since the Facility will be unattended, no disturbance of wildlife during operation of the Facility is expected. In addition, in accordance with the Connecticut Department of Environmental Protection's ("DEP") Natural Diversity Data Base, there are no known extant populations of Federal or State Endangered, Threatened or Special Concern Species that occur at the Site.

B. NATURAL CHARACTERISTICS

According to the Bedrock Geological Map of Connecticut compiled by John Rogers in 1985, bedrock geology underlying the Site is identified as part of the New Haven Arkose formation. This formation/bedrock consists of poorly sorted, reddish, medium-to-coarse-grained, sandstone-like, sedimentary rock. Arkose, commonly known as brownstone, contains quartz, feldspar, and various rock fragments. No bedrock outcrops were observed at or within the general vicinity of the Facility.

The surficial geology of the Site is classified as sand and gravel overlying sand overlying fines. This deposit consists of sand and gravel generally less than 20 feet thick overlying sand which in turn overlies fines (glacial deltaic deposits overlying glacial lake-bottom deposits). Soils derived from this parent material were generally field confirmed by a soil scientist at the subject property.

Soils identified in the lease area are classified as Manchester gravelly sandy loam (soil symbol – Mg). Manchester is an excessively drained, gravelly coarse textured, loose, reddish colored glacial fluvial (outwash) soil. These are deep, moderately deep and shallow to bedrock, well drained, moderately coarse textured, friable, reddish colored glacial till soils. This field classification is generally consistent with published information for the area (Soil Survey of New Haven County, Connecticut, USDA SCS, July 1979).

No wetland soils were identified within the lease area or the access/utility easement. Wetland soils were identified approximately 200 feet east of the lease area in association with an intermittent watercourse and narrow bordering wetland system. Wetland soils are classified as Rippowam fine sandy loam (Ro). This is a poorly drained, moderately coarse over coarse textured, friable over loose alluvial soil developed on floodplains.

C. VISUAL RESOURCE EVALUATION

In July 2006, Vanasse Hangen Brustlin, Inc. ("VHB") prepared a Visual Resource Evaluation Report for the Facility (Tab 12). The Visual Resource Evaluation Report contains a narrative, a photolog documentation map, balloon test photographs, photographic simulations and a viewshed map. The evaluation was conducted to identify specific areas where the Facility is likely to be visible. For the purposes of the evaluation, a 2-mile radius surrounding the Site was chosen as the study area (the "Study Area").

Portions of Sleeping Giant State Park, Naugatuck State Forest, Brooksvale Recreation Park, Farmington Canal State Park Trail and the Quinnipiac Trail are contained within the Study Area. In addition, the Route 10 transportation corridor, a north-south arterial roadway, traverses the central portion of the Study Area. In total, the Study Area contains roughly 60 linear miles of paved roadways. The Study Area also features approximately 53 acres of open water.

Tree cover in the study area consists mainly of mixed deciduous hardwood species interspersed with stands of various types of evergreens. The tree canopy occupies approximately 5,926 acres of the 8,042 acre Study Area (74%). An infrared laser range finder was used to accurately determine the average tree height of 65 feet.

Based on the viewshed analysis, the area from where the Facility will visible above the tree canopy comprise approximately 59 acres (representing less than one percent of the Study Area). A significant amount of the total visibility associated with the Facility falls on the host property and the existing utility right-of-way that traverses the Study Area. Other areas of visibility include a roadside commercial development along Route 10 located within the general vicinity, an adjacent open field located to the southwest of the Site, and along select portions of Knoll Drive located approximately 1,000 feet to the northeast.

In total, VHB estimates that approximately 6 residences within one mile of the Facility could have year round views of the Facility. These include four residences along Knoll Drive and two residences along Route 10. In addition, there are several small areas of potential visibility located over one mile to the northwest and approximately 900 feet northeast of the Facility. These areas are on private property and therefore could not be field verified during VHB's balloon float. VHB anticipates that these areas of potential visibility would be limited to tree line views and / or views of the upper 25 percent of the Facility. The topographic relief and abundance of wooded land found within the Study Area are key factors that serve to minimize potential views from residential properties.

Moreover, VHB does not anticipate views of the Facility from any portion of the Quinnipiac Trail. VHB hiked portions of the Sleeping Giant State Park trail system during their balloon float in order to identify any potential views of the Facility. The lookout tower within the park was accessed during this reconnaissance and no views were identified from the lookout tower or any of the adjoining trails.

VHB anticipates that there will be approximately 97 acres of seasonal visibility. These areas of visibility are limited mostly to portions of the host property and it immediate vicinity. VHB anticipates that approximately eight nearby residences may have a seasonal view of the Facility. These include 5 properties along Knoll Drive and 3 properties along Willow Street.

D. Balloon Float & Sign Display

To enable the public to ascertain the visibility of the Facility, Sprint will raise a balloon at the Site with a diameter of at least three feet on the day of the Council's first hearing session on the Application (weather permitting) or at a time otherwise specified by the Council. In addition, Sprint will post a sign on the subject property at least ten days prior to the public hearing. The

sign will be at least 6 feet by 4 feet and will have the Applicant's name, type of facility, height, public hearing date and contact information for the Council.

E. Safety Analysis

The Facility will not pose a health threat to the community-at-large or the employees who visit the Site. To verify that the Facility will not pose a health threat, Sprint analyzed the amount of radio-frequency energy emitted by its antennas (see Tab 13 for the analysis). This analysis was performed using a worst case scenario with the antennas on the monopole pointing straight down. Under this worse case scenario, the highest calculated levels of radio-frequency energy are measured at the base of the monopole.

Sprint's analysis determined that the amount of radio-frequency energy emitted by the antennas (known as the power density), as calculated at the base of the monopole, would be 0.0482 milliwatts per centimeter squared ("mW/cm^2"). A power density of 0.0482 mW/cm^2 means that the radio-frequency energy at the Facility will never be greater than 4.82 % of the maximum permissible exposure, which is 1.0 mW/cm^2 as specified by the FCC. Therefore, Sprint's analysis clearly shows that the maximum level of radio-frequency energy emitted at the Facility will be well below all applicable health and safety limits.

F. National Environmental Policy Act Review

As a licensing agency, the FCC complies with the National Environmental Policy Act by requiring its licensees (including Sprint) to review their proposed actions for environmental consequences. If a licensee's proposed action falls within one of the "listed" categories within NEPA (specifically, 47 CFR §1.1307), the licensee is required to perform an environmental assessment and disclose the results to the FCC. The "listed" categories address issues such as the presence of wilderness areas, wilderness preserves, endangered or threatened species, critical

habitats, historic districts, sites, buildings structures or objects, Indian religious sites, flood plains and wetlands.

VHB conducted a NEPA review to investigate any environmental consequences that may arise from Sprint's plans for the Facility in Hamden (Tab 14). VHB determined that the Facility is not located in an environmentally sensitive area nor does it fall under any of the NEPA "listed" categories in 47 CFR §1.1307.

(1) Impact Reviews

As part of the NEPA review, VHB contacted the Connecticut Commission on Culture and Tourism ("CCT") and requested that the CCT review and comment on Sprint's plans for the Facility. After extensive review, the CCT determined the project will not have an effect on the State's historic, architectural or archaeological resources listed on or eligible for the National Register of Historic Places. In addition, the CCT determined that the Facility will not have an effect on properties of traditional cultural importance to Connecticut's Native American community. Finally, CCT recommended that Sprint provide the public with the opportunity to comment on Sprint's Application in accordance with the National Historic Preservation Act and the Connecticut Environmental Policy Act. Accordingly, VHB published public notice of Sprint's proposal requesting comments. The correspondence from CCT is also included under Tab 14.

(2) Endangered Species

Also as part of the NEPA review, VHB reviewed the DEP's Natural Diversity Database ("NDDB"). The locations of species and natural communities within this database are based upon data collected over the years by the Natural Resources Center's Geological and Natural History Survey, other units of the DEP, private conversation groups and the scientific community. The locations have been mapped on U.S.G.S. 7.5 minute quadrangle maps for the entire State of

Connecticut by the Natural Diversity Database Unit. The point locations were generalized for the purposes of distributing data to the general public while maintaining the confidentiality of the exact species and community locations. The points were moved randomly by up to 500 feet in any direction and then buffered by a ¼ mile. Therefore, the general locations are presented as polygons and the exact location of the species or community falls somewhere within the polygon, and not necessarily in the center of the polygon.

As part of the NEPA compliance process for this Facility, Sprint screened the project area for State and Federally listed endangered, threatened, and special concern species and significant communities through the use of the NDDB. According to the DEP, if the project is not found within a hatched area, or overlapping a lake, pond or wetland that has any hatching, or upstream or downstream (by less than ½ mile) from a hatched area, the project is unlikely to affect any known occurrence of listed species or significant natural community. In addition, according to the DEP, if any part of the project is within one of those areas the project may have a conflict with a species or natural community. In cases of potential conflict (i.e., when one or more of the criteria above are met), Sprint submits all applicable information to the DEP for review and comment. In this case, none of the DEP criteria were met and, therefore, no additional coordination with DEP was necessary. The NEPA documentation is included under Tab 14.

CONCLUSION

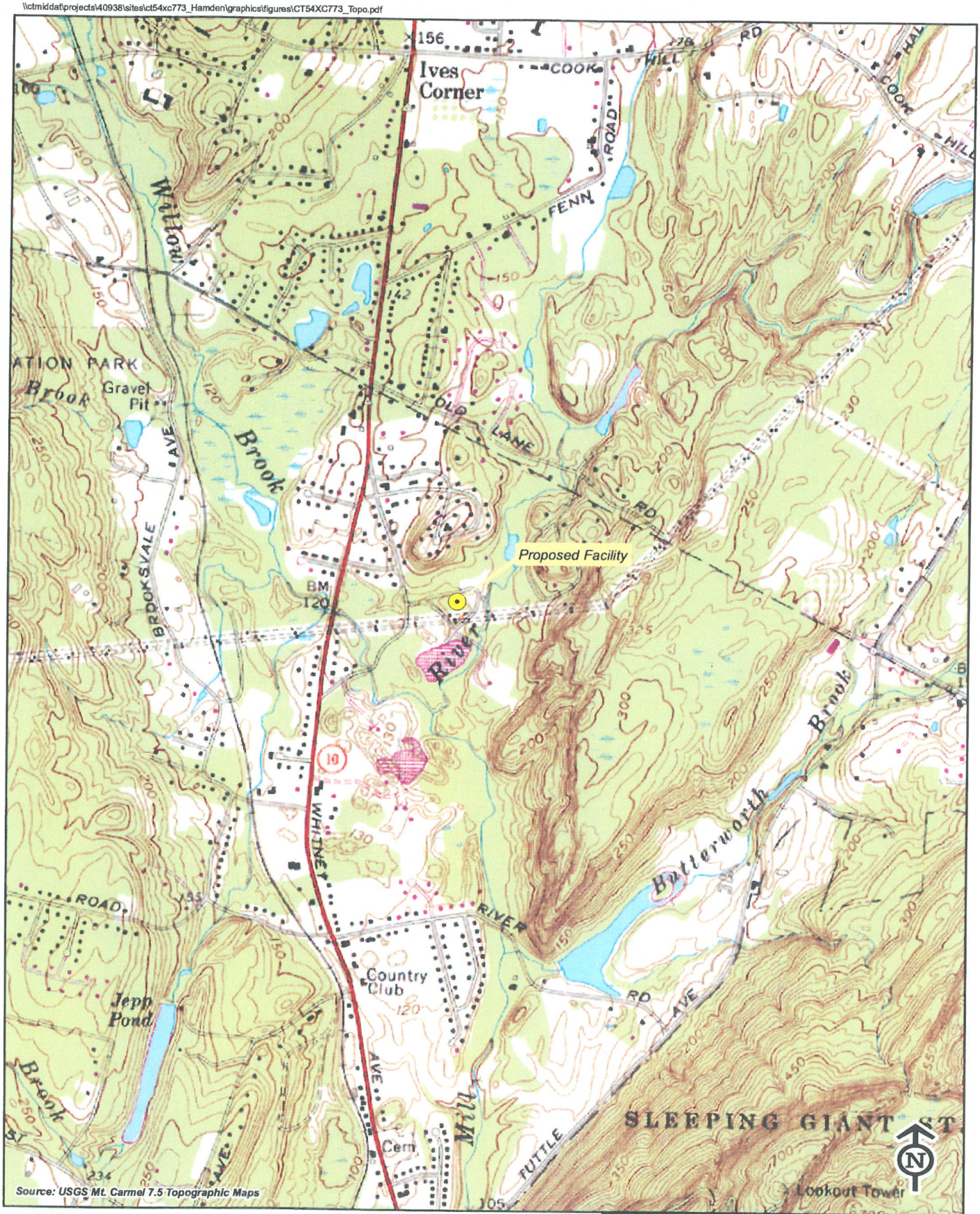
For the reasons described herein, Sprint respectfully requests that the Council issue a certificate of environmental compatibility and public need for the construction, maintenance and operation of a 160-foot telecommunication facility at 150 Willow Street in Hamden, Connecticut.

SPRINT NEXTEL CORPORATION

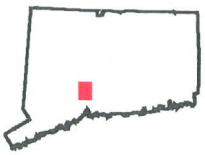
By: _____
Thomas J. Regan

40236539 v1 - MERCIECM - 080563/3234

\\ctmiddat\projects\40938\sites\ct54xc773_Hamden\graphics\figures\CT54XC773_Topo.pdf



1,000 500 0 1,000 Feet



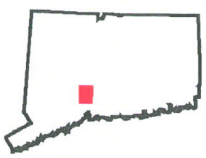
Quadrangle Location

Vanasse Hangen Brustlin, Inc.

Topographic Base Map
Proposed Sprint PCS Facility
CT54XC773
150 Willow Street
Hamden, Connecticut

\\ctmiddat\projects\40938\sites\ct54xc773_Hamden\graphics\figures\CT54XC773_Aerial.pdf

200 100 0 200
Feet



Quadrangle Location

Vanasse Hangen Brustlin, Inc.

Aerial Photograph
Proposed Sprint PCS Facility
CT54XC773
150 Willow Street
Hamden, Connecticut

SITING COUNCIL APPLICATION GUIDE

Revised to June 23, 2004

TELECOMMUNICATION FACILITY NOTICE

Pursuant to Section 16-501(b) of the General Statutes of Connecticut and Section 16-501-1(e) of the Regulations of Connecticut State Agencies, notice is hereby given that on or about October 20, 2006, Sprint Nextel Corporation ("Sprint") will file an application with the Connecticut Siting Council ("Siting Council"). The application will request a certificate of environmental compatibility and public need for the construction, maintenance and operation of a telecommunication facility in Hamden, Connecticut (the "Application"). The location under consideration is 150 Willow Street (Map 3430, Lot 1), which is owned by the Hamden Fish & Game Protective. The facility will have a 160-foot monopole with telecommunications equipment at its base. The Application will explain the need, purpose and benefits of the facility and will also describe, in detail, the environmental impacts of the facility.

After Sprint files the Application, the Siting Council will set a date to hold a public hearing in the community. The Siting Council will publish notice of the public hearing in the local newspaper and Sprint will post a sign at the site with the details of the public hearing. On the day of the public hearing, Sprint will fly a balloon at the site at 160 feet, weather permitting.

Questions may be directed to: Thomas J. Regan, Esq. at Brown Rudnick Berlack Israels LLP, CityPlace I, 185 Asylum Street, Hartford, Connecticut 06103. Telephone 860-509-6500.

AFFIDAVIT OF PUBLICATION

New Haven Register

STATE OF CONNECTICUT

County of New Haven

I, S. Quinn of New Haven

Connecticut, being duly sworn, do depose and say that I am Sales Rep

of the New Haven Register, and that on the following date October 17, 19, to wit: 2006

there was published in the regular daily edition of the said newspaper an advertisement,

and that the newspaper extracts hereto annexed were clipped from each of the above-named issues of said newspaper.

Subscribed and sworn to this 24th day of Oct 20 06 before me.

Mary Federico Notary Public

My Commission Expires 10-31-07

ABUTTERS LIST

150 Willow Street
Hamden, CT
3430/1

Property Owner:
Hamden Fish & Game Protective

Map/Lot

George L. Parente
13217 Sherburne Circle #504
Bonita Springs, FL 33923
3529/87

Peter M. Karlak
Patricia D. Karlak et. al
11 Lovig Lane
Hamden, CT 06518
3529/62

Betty Ann Lapides
33 Lovig Lane
Hamden, CT 06518
3529/64

Anthony Gambardella, Jr.
Mary Gambardella
210 Willow Street
Mt. Caramel, CT 06518
3529/65

Allan Rubin
Corrine Carol
221 Willow Street
Hamden, CT 06518
3530/28

Hobart J. Hendrick, Jr.
c/o Betsy Hendrick
1223 Summit Road
Cheshire, CT 06410
3530/31

Lynette A. Demusis
160 Darley Drive
Hamden, CT 06095
3530/26

Blanche Little
10 Bittersweet Lane
Mt. Carmel, CT 06518
3529/90

John Mihalakos
Joanna Mihalakos
23 Lovig Lane
Hamden, CT 06518
3529/63

Hamilton W. Milroy, Jr.
200 Willow Street
Mt. Carmel, CT 06518
3529/66

Arthur E. Arpin
Mary Ann Arpin
225 Willow Street
Mt. Carmel, CT 06518
3529/2

Shan Mei Sun
Junjie Liu
Ying Chang
182 Knoll Drive
Hamden, CT 06518
3530/30

Linus L. Darley
19 Leetes Island Road
Branford, CT 06405-6515
3530/27

Diana D'Andrea
142 Darley Drive
Hamden, CT 06518
3530/12

Gaspare Tarantola
Agata Tarantola
110 Darley Drive
Hamden, CT 06518
3530/11

John Candela
Salvatore Hoo
64 Darley Drive
Hamden, CT 06518
3530/9

State of Connecticut
Nature Preserve
450 Tuttle Avenue
Hamden, CT 06518
3431/2

Stephanie J. Tice
90 Darley Drive
Mt. Carmel, CT 06518
3530/10

Edward Goglia
Lois Goglia
309 Old Lane Road
Cheshire, CT 06410
3531/5

South Central CT Regional Water Authority
90 Sargent Drive
New Haven, CT 06511
3429/40 & 42

BROWNRUDNICK

CityPlace I
185 Asylum
Street
Hartford
Connecticut
06103
tel 860.509.6500
fax 860.509.6501

THOMAS J. REGAN
COUNSELOR AT LAW
Direct Dial: (860) 509-6522
tregan@brownrudnick.com

FILE

Via Certified Mail -
Return Receipt Requested

October 16, 2006

South Central CT Regional Water Authority
90 Sargent Drive
New Haven, CT 06511

RE: Notice to Abutting Landowners

Dear Sir or Madam:

On or about October 20, 2006, Sprint Nextel Corporation ("Sprint") intends to file an application for a certificate of environmental compatibility and public need with the Connecticut Siting Council for the construction, maintenance and operation of a telecommunications facility on property owned by the Hamden Fish & Game Protective at 150 Willow Street in Hamden, Connecticut (Map 3430, Lot 1).

Pursuant to Connecticut General Statutes §16-50*l*(b), you are being given notice of the filing of this application because you own property abutting 150 Willow Street. I have enclosed a copy of the public notice that will be published in the *New Haven Register* on Tuesday, October 17, 2006 and Thursday, October 19, 2006. A copy of Sprint's application will be on file at the Watertown Town Hall for your review.

If you have any questions, please contact me at (860) 509-6522.

Very truly yours,

BROWN RUDNICK BERLACK ISRAELS LLP

By: _____
Thomas J. Regan

Enclosure

40236371 v1 - MERCIECM - 080563/3234

BR

TELECOMMUNICATION FACILITY NOTICE

Pursuant to Section 16-50*l*(b) of the General Statutes of Connecticut and Section 16-50*l*-1(e) of the Regulations of Connecticut State Agencies, notice is hereby given that on or about October 20, 2006, Sprint Nextel Corporation ("Sprint") will file an application with the Connecticut Siting Council ("Siting Council"). The application will request a certificate of environmental compatibility and public need for the construction, maintenance and operation of a telecommunication facility in Hamden, Connecticut (the "Application"). The location under consideration is 150 Willow Street (Map 3430, Lot 1), which is owned by the Hamden Fish & Game Protective. The facility will have a 160-foot monopole with telecommunications equipment at its base. The Application will explain the need, purpose and benefits of the facility and will also describe, in detail, the environmental impacts of the facility.

After Sprint files the Application, the Siting Council will set a date to hold a public hearing in the community. The Siting Council will publish notice of the public hearing in the local newspaper and Sprint will post a sign at the site with the details of the public hearing. On the day of the public hearing, Sprint will fly a balloon at the site at 160 feet, weather permitting.

Questions may be directed to: Thomas J. Regan, Esq. at Brown Rudnick Berlack Israels LLP, CityPlace I, 185 Asylum Street, Hartford, Connecticut 06103. Telephone 860.509.6500.

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Blanche Little
10 Bittersweet Lane
Mt. Carmel, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Blanche L. Little ☐ Agent ☑ Addressee

B. Received by (Printed Name) | C. Date of Delivery 10-20

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0301

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Peter M. Karlak
Patricia D. Karlak et. al
11 Lovig Lane
Hamden, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Patricia D. Karlak ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery 10-19-6

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0318

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

John Mihalakos
Joanna Mihalakos
23 Lovig Lane
Hamden, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery 10-19-6

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0325

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

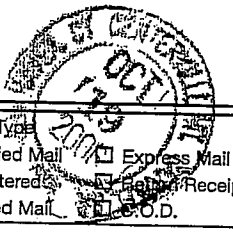
Betty Ann Lapides
33 Lovig Lane
Hamden, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Betty Ann Lapides ☐ Agent ☐ Address

B. Received by (Printed Name) C. Date of Delive 10-19-6

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No



3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandis
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0332

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

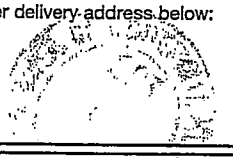
Hamilton W. Milroy, Jr.
200 Willow Street
Mt. Carmel, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X W. H. Milroy ☐ Agent ☑ Addressee

B. Received by (Printed Name) W. H. Milroy C. Date of Delivery 12/19/06

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No



3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0349

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

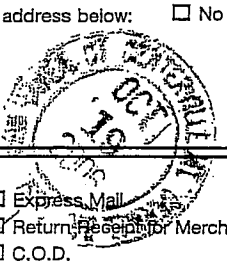
Anthony Gambardella, Jr.
Mary Gambardella
210 Willow Street
Mt. Caramel, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Mary Gambardella ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 10-19-6

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No



3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0356

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Arthur E. Arpin
Mary Ann Arpin
225 Willow Street
Mt. Carmel, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Deliver

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0363

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Allan Rubin
Corrine Carol
221 Willow Street
Hamden, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0370

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Shan Mei Sun
Junjie Liu
Ying Chang
182 Knoll Drive
Hamden, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☑ Addressee

B. Received by (Printed Name) C. Date of Delivery 10-19-6

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0387

PS Form 3811, February 2004 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Hobart J. Hendrick, Jr.
c/o Betsy Hendrick
1223 Summit Road
Cheshire, CT 06410

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Cheree Hendrick ☐ Agent ☐ Addressee

B. Received by (Printed Name) C Hendricks
C. Date of Delivery 10-17

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number
(Transfer from service label) 7005 1820 0000 0478 0394

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Lynette A. Demusis
160 Darley Drive
Hamden, CT 06095

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) Lynette Demusis
C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number
(Transfer from service label) 7005 1820 0000 0478 0417

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Diana D'Andrea
142 Darley Drive
Hamden, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Diana D'Andrea ☐ Agent ☐ Addressee

B. Received by (Printed Name) Diana D'Andrea
C. Date of Delivery 10-23-06

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number
(Transfer from service label) 7005 1820 0000 0478 0424

PS Form 3811, February 2004 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Gaspare Tarantola
Agata Tarantola
110 Darley Drive
Hamden, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery 10/23

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0431

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Stephanie J. Tice
90 Darley Drive
Mt. Carmel, CT 06518

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

OCT 20 2006

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0448

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Edward Goglia
Lois Goglia
309 Old Lane Road
Cheshire, CT 06410

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☑ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery 10/17/06

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1820 0000 0478 0462

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

South Central CT Regional Water Authority
90 Sargent Drive
New Haven, CT 06511

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery 10-17-06

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number
(Transfer from service label) 7005 1820 0000 0478 0486

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
OFFICIAL USE

7005 1820 0000 0478 0400

Postage	$ .39
Certified Fee	2.40
Return Receipt Fee (Endorsement Required)	1.85
Restricted Delivery Fee (Endorsement Required)	
Total Postage	4.64

P.O. HTFD CT 06103 OCT 16 2006 USPS ANN STREET Postmark Here

Sent To: Linus L. Darley
Street, Apt. No. or PO Box No.: 19 Leetes Island Road
City, State, ZIP+4: Branford, CT 06405-6515

PS Form 3800, June

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
OFFICIAL USE

7005 1820 0000 0478 0295

Postage	$ .39
Certified Fee	2.40
Return Receipt Fee (Endorsement Required)	1.85
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 4.64

P.O. HTFD CT 06103 OCT 16 2006 USPS ANN STREET Postmark Here

Sent To: George L. Parente
Street, Apt. No.; or PO Box No.: 13217 Sherburne Circle #504
City, State, ZIP+4: Bonita Springs, FL 33923

PS Form 3800, Ju

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
OFFICIAL USE

7005 1820 0000 0478 0479

Postage	$ .39
Certified Fee	2.40
Return Receipt Fee (Endorsement Required)	1.85
Restricted Delivery Fee (Endorsement Required)	
Total Postage	4.64

P.O. HTFD CT 06103 OCT 16 2006 USPS ANN STREET Postmark Here

Sent To: State of Connecticut
Street, Apt. No. or PO Box No.: Nature Preserve 450 Tuttle Avenue
City, State, ZI: Hamden, CT 06518

PS Form 3800,

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com®
OFFICIAL USE

7005 1820 0000 0478 0455

Postage	$ .39
Certified Fee	2.40
Return Receipt Fee (Endorsement Required)	1.85
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$ 4.64

P.O. HTFD CT 06103 OCT 16 2006 USPS ANN STREET Postmark Here

Sent To: John Candela
Street, Apt. No.; or PO Box No.: Salvatore Hoo 64 Darley Drive
City, State, ZIP+4: Hamden, CT 06518

PS Form 3800, Jun

PROOF OF SERVICE

This is to certify that on the 27th of October, 2006, a copy of the Application of Sprint Nextel Corporation for a Certificate of Environmental Compatibility and Public Need for Construction of a Telecommunications Facility in Hamden, Connecticut was sent via first class mail, postage prepaid, to the following:

AGENCY	*NAME/ADDRESS*
Chief Elected Official Hamden	The Honorable Craig Henrici, Mayor Town of Hamden Hamden Government Center 2750 Dixwell Avenue Hamden, CT 06518
Town Planner Hamden	Leslie A. Creane, Town Planner Town of Hamden Hamden Government Center 2750 Dixwell Avenue Hamden, CT 06518
Inland Wetlands Commission Hamden	Steven Sosensky, Chairman Inland Wetlands Commission Town of Hamden Hamden Government Center 2750 Dixwell Avenue Hamden, CT 06518
Conservation Commission Hamden	Conservation Commission Town of Hamden Hamden Government Center 2750 Dixwell Avenue Hamden, CT 06518
Chief Elected Official Cheshire	Matt Hall, Chairman Cheshire Town Council Cheshire Town Hall 84 South Main Street Cheshire, CT 06410

AGENCY	*NAME/ADDRESS*
Town Planner Cheshire	William S. Voelker, Town Planner Cheshire Town Hall 84 South Main Street Cheshire, CT 06410
Inland Wetlands Commission Cheshire	Robert deJongh, Chairman Inland Wetlands Commission Cheshire Town Hall 84 South Main Street Cheshire, CT 06410
Environmental Planner Cheshire	Suzanne Simone, Environmental Planner Cheshire Town Hall 84 South Main Street Cheshire, CT 06410
State Legislator (District #11) State Senate (Hamden)	The Honorable Martin M. Looney Senator 11th Distirct 132 Fort Hale Road New Haven, CT 06512
State Legislator (District #17th) State Senate (Hamden)	The Honorable Joseph J. Crisco, Jr. Senator 17th District 1205 Racebrook Road Woodbridge, CT 06525
State Legislator (District #88th) State Representative (Hamden)	The Honorable J. Brendan Sharkey Representative 88th District 600 Mount Carmel Avenue Hamden, CT 06518
State Legislator (District #91st) State Representative (Hamden)	The Honorable Peter F. Villano Representative 91st District 133 Armory Street Hamden, CT 06517
State Legislator (District 96th) State Representative (Hamden)	The Honorable Cameron C. Staples Representative 96th District Legislative Office Building – Room 4043 Hartford, CT 06106-1591

AGENCY	*NAME/ADDRESS*
State Legislator (District 103rd) State Representative (Hamden & Cheshire)	The Honorable Alfred Adinolfi Representative 103rd District 235 Sorghum Mill Drive Cheshire, CT 06410
State Legislator (District #13th) State Senate (Cheshire)	The Honorable Thomas P. Gaffey Legislative Office Building, Room 3100 Hartford, CT 06105-1591
State Legislator (District #16th) State Senate (Cheshire)	The Honorable Christopher S. Murphy 12C Darling Street Southington, CT 06489
State Legislator (District 89th) State Representative (Cheshire)	The Honorable Vickie Orsini Nardello 8 Laurel Lane Prospect, CT 06712
State Legislator (District 90th) State Representative (Cheshire)	The Honorable Mary G. Fritz 43 Grove Street Yalesville, CT 06492
Cheshire Town Attorney	John K. Knott, Jr., Esquire 325 South Main Street Cheshire, CT 06410
CT Attorney General	Richard Blumenthal Attorney General 55 Elm Street Hartford, CT 06106
State Environmental Protection Agency	Gina McCarthy, Commissioner Department of Environmental Protection 79 Elm St., 3rd Floor Hartford, CT 06106
State Department of Public Health	Dr. J. Robert Galvin, Commissioner Department of Public Health 410 Capitol Avenue P.O. Box 340308 Hartford, CT 06134

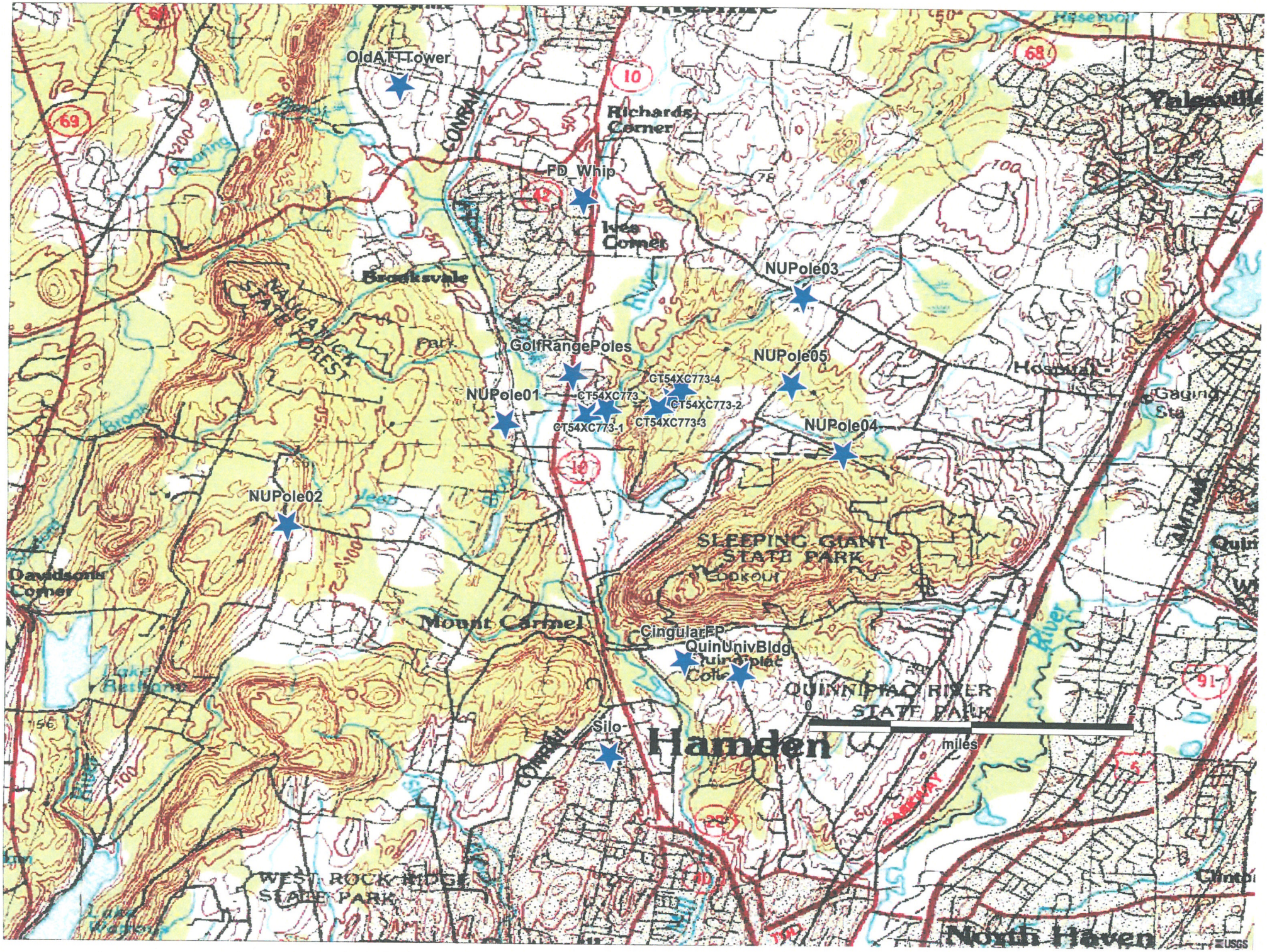
AGENCY	*NAME/ADDRESS*
State Department of Public Utility Control	Donald W. Downes, Chairman Department of Public Utility Control 10 Franklin Square New Britain, CT 06051
State Department of Economic & Community Development	James F. Abromaitis, Commissioner Department of Economic and Community Development 505 Hudson Street Hartford, CT 06106
State Council on Environmental Quality	Karl J. Wagener, Executive Director Council on Environmental Quality 79 Elm Street, 6th Floor Hartford, CT 06106
Office of Policy & Management	Robert L. Genuario, Secretary Office of Policy and Management 450 Capitol Avenue Hartford, CT 06106
State Department of Transportation	Arthur W. Gruhn, P.E. Chief Engineer Connecticut Department of Transportation Bureau of Engineering & Highway Operations 2800 Berlin Turnpike P.O. Box 317546 Newington, CT 06131-7546
Department of Transportation Federal Aviation Administration	Department of Transportation Federal Aviation Administration New England Regional Office 12 New England Executive Park P. O. Box 150 Burlington, MA 01803
	Connecticut Historical Commission 59 South Prospect Street Hartford, CT 06106
Regional Planning Agency (Hamden)	South Central Regional Council of Governments 127 Washington Street, 4th Floor West West Haven, CT 06473-1715

AGENCY	*NAME/ADDRESS*
Regional Planning Agency (Cheshire)	Council of Governments of the Central Naugatuck Valley 20 East Main Street, Suite 303 Waterbury, CT 065702-2399
The Connecticut Trust for Historic Preservation	Mr. Theodore F. Ells, Chairman 940 Whitney Avenue Hamden, CT 06517-4002
Any Federal Agencies with Jurisdiction Over the Site	None

By: _____
Thomas J. Regan

40236581 v1 - MERCIECM - 080563/3234

Two Mile Scrub



THOMAS J. REGAN
Direct Dial Telephone: (860) 509-6522
E-MAIL: tregan@brownrudnick.com

BROWNRUDNICK

FILE

CityPlace I
185 Asylum
Street
Hartford
Connecticut
06103
tel 860.509.6500
fax 860.509.6501

Via FedEx

July 27, 2006

The Honorable Craig Henrici
Mayor
Memorial Town Hall
2372 Whitney Avenue
Hamden, CT 06518

RE: Pre-Application Filing Sprint Nextel Corporation ("Sprint") Proposed Cellular Communications Facility For Property on 150 Willow Street, Hamden, Connecticut, Hamden Fish & Game Protective, Owner

Dear Mayor Henrici:

In satisfaction of Connecticut General Statutes Section 16-50l(e), enclosed please find four (4) copies of the documents prepared for Sprint in anticipation of the filing of an "Application for Certificate of Environmental Compatibility and Public Need" for the construction, maintenance and operation of a facility at the above-referenced location to provide digital service in the Hamden area.

The information contained herein has been prepared in concert with the requirements of the revised Connecticut Siting Council Application Guide for Community Antenna Television and Telecommunications Facilities. Included in this filing are technical reports concerning the public need, the site selection process, and the environmental effects of the proposed facility.

Please recognize that after an extensive search, we have identified this property, outlined in the attached documents as the potential candidate for the location of a wireless telecommunications facility. We are seeking your input in determining the best location for this facility.

As you are aware, the municipality may conduct public hearings and meetings as it deems necessary for it to advise Sprint of its recommendations concerning the proposed facility. We are available, at your discretion, to meet with you and other parties to review the proposed location and application. Please note that the municipality must issue its recommendations to us within sixty (60) days of the consultation and receipt of this filing.

If you have any questions, please do not hesitate to contact the undersigned directly.

Very truly yours,

BROWN RUDNICK BERLACK ISRAELS LLP

By: _____
Thomas J. Regan

TJR/bh
Enclosures

cc/encls: Leslie Creane, Town Planner

40233879 v1 - REGANTJ - 080563/3234

RF Engineering Information for Proposed Cheshire South Site

Introduction – Sprint PCS provides a digital communications service using PCS technology in the 1900 MHz frequency band as allocated by the FCC. This frequency is over twice the operating frequency of traditional cellular service that is in the 800 MHz band. The higher 1900 MHz signals degrade quickly in hilly areas and areas of dense foliage. Sprint PCS currently lacks coverage in critical areas of Cheshire and Hamden, particularly along State Highway 10. To fill these coverage gaps a monopole is proposed for the site located at 150 Willow Street, Hamden, CT. The height required is 157 feet. The following table details the site specifications:

Site Name:	Site Address:	Latitude:	Longitude:	Elevation:	Antenna Centerline:
Hamden Fish & Game Club	150 Willow Street, Hamden, CT 06518	41° 26' 57.81"	-72° 54' 16.46"	126 Feet AMSL	157 Feet

Site Need – The purpose of the proposed location is to provide acceptable service to the Hamden and Cheshire area. Primarily due to the terrain characteristics in the surrounding region, Sprint PCS is currently unable to provide acceptable service in this area. Attachment A shows coverage obtained from Sprint PCS's existing and planned sites. As can be seen from this attachment, a significant gap in service exists on and around State Highway 10.

Attachment B shows the coverage obtained with the addition of the proposed site. As can be seen from this attachment, the proposed site significantly improves coverage in along State Highway 10 in both Hamden and Cheshire.

The coverage plots show coverage for the 1900 MHz frequency range and were produced using computer modeling. The table below details site specific information used to generate the coverage plots. Some sites listed in the table below are outside the plot view but are included for completeness of information.

Site Information Used in Coverage Plots

Site	Sector	Latitude	Longitude	Antenna Height	Antenna Type	Antenna Azimuth
CT03XC007	A	41°30'37"	72°46'07"	52	DB980H90E-M	0
CT03XC007	B	41°30'37"	72°46'07"	52	DB980H90E-M	180
CT03XC008	A	41°26'37"	72°47'47"	130	ALL7184.05	60
CT03XC008	B	41°26'37"	72°47'47"	130	ALL7184.05	180
CT03XC008	C	41°26'37"	72°47'47"	130	ALL7184.05	300
CT03XC009	A	41°25'45"	72°50'55"	120	ALL7184.05	20
CT03XC009	B	41°25'45"	72°50'55"	120	DB980G90E-M	120
CT03XC009	C	41°25'45"	72°50'55"	120	ALL7184.05	240
CT03XC010	A	41°28'51"	72°46'05"	47	ALL7184.05	0
CT03XC010	B	41°28'51"	72°46'05"	47	DB980H65E-M	185
CT03XC010	C	41°28'51"	72°46'05"	47	ALL7184.05	270
CT03XC015	A	41°33'54"	72°53'34"	147	DB980H90E-M	350
CT03XC015	B	41°33'54"	72°53'34"	147	DB980H90E-M	135
CT03XC015	C	41°33'54"	72°53'34"	147	DB980H90E-M	250
CT03XC025	A	41°31'04"	73°01'06"	210	fr65-17-04dp	30
CT03XC025	B	41°31'04"	73°01'06"	210	ALL7184.05	150
CT03XC025	C	41°31'04"	73°01'06"	210	fr65-17-04dp	280
CT03XC026	A	41°30'33"	72°48'39"	100	ALL7184.05	30
CT03XC026	B	41°30'33"	72°48'39"	100	ALL7184.05	150
CT03XC026	C	41°30'33"	72°48'39"	100	ALL7182.07	270
CT03XC027	A	41°32'16"	72°59'06"	130	DB980H65T2E-M	0
CT03XC027	B	41°32'16"	72°59'06"	130	DB950F85T2E-M	90
CT03XC027	C	41°32'16"	72°59'06"	130	fr65-17-04dp	180
CT03XC035	A	41°28'52"	73°03'14"	150	DB980H90E-M	40
CT03XC035	B	41°28'52"	73°03'14"	150	DB980H90E-M	170
CT03XC035	C	41°28'52"	73°03'14"	150	DB980H90E-M	300
CT03XC039	A	41°23'47"	72°51'30"	104	ALL7184.05	350
CT03XC039	B	41°23'47"	72°51'30"	104	ALL7184.05	110
CT03XC039	C	41°23'47"	72°51'30"	104	ALL7184.05	230
CT03XC043	A	41°24'17"	73°00'00"	240	DB980H90E-M	0
CT03XC043	B	41°24'17"	73°00'00"	240	DB980H90E-M	120
CT03XC043	C	41°24'17"	73°00'00"	240	DB980H90E-M	240
CT03XC044	A	41°29'15"	72°55'45"	225	DB980H90E-M	30
CT03XC044	B	41°29'15"	72°55'45"	225	DB980H90E-M	130
CT03XC044	C	41°29'15"	72°55'45"	225	DB980H65E-M	210
CT03XC046	A	41°22'34"	72°55'12"	53	DB950G65E-M	290
CT03XC046	B	41°22'34"	72°55'12"	53	DB950G65E-M	60
CT03XC046	C	41°22'34"	72°55'12"	53	DB950G65E-M	160
CT33XC512	A	41°30'29"	72°57'05"	150	DB980H90E-M	310
CT33XC512	B	41°30'29"	72°57'05"	150	DB980H90E-M	70
CT33XC512	C	41°30'29"	72°57'05"	150	DB980H90E-M	190
CT33XC513	A	41°25'23"	72°57'04"	200	DB980H90E-M	320
CT33XC513	B	41°25'23"	72°57'04"	200	DB980H90E-M	70
CT33XC513	C	41°25'23"	72°57'04"	200	DB980F65T4E-M	200
CT33XC514	A	41°28'12"	72°58'21"	190	DB980F65T2E-M	10
CT33XC514	B	41°28'12"	72°58'21"	190	DB980H90E-M	130
CT33XC514	C	41°28'12"	72°58'21"	190	DB980H90E-M	250

Site Information Used in Coverage Plots (Continued)

Site	Sector	Latitude	Longitude	Antenna Height	Antenna Type	Antenna Azimuth
CT33XC515	A	41°26'34"	72°59'33"	130	DB980F90E-M	30
CT33XC515	B	41°26'34"	72°59'33"	130	DB980F90E-M	150
CT33XC515	C	41°26'34"	72°59'33"	130	DB980F90E-M	270
CT33XC524	A	41°27'21"	73°02'24"	150	DB980H65E-M	0
CT33XC524	B	41°27'21"	73°02'24"	150	DB980H90E-M	120
CT33XC524	C	41°27'21"	73°02'24"	150	DB980H90E-M	240
CT33XC530	A	41°28'29"	72°51'40"	147	DB980F90T2E-M	0
CT33XC530	B	41°28'29"	72°51'40"	147	DB980F90T2E-M	120
CT33XC530	C	41°28'29"	72°51'40"	147	DB980H90E-M	240
CT33XC531	A	41°25'10"	72°54'17"	47	DB980H65E-M	0
CT33XC531	B	41°25'10"	72°54'17"	47	DB980H65E-M	90
CT33XC531	C	41°25'10"	72°54'17"	47	DB980H65E-M	180
CT33XR598	A	41°27'18"	72°46'48"	33	DB974H90E-M	320
CT43XC809	A	41°30'40"	72°53'54"	158	DB950F65T6E-M	0
CT43XC809	B	41°30'40"	72°53'54"	158	DB950F65T4E-M	120
CT43XC809	C	41°30'40"	72°53'54"	158	DB950F65T2E-M	240
CT43XC815	A	41°21'33"	72°55'34"	62	DB932DG65VT4E-M	35
CT43XC815	B	41°21'33"	72°55'34"	62	DB932DG65VT2E-M	120
CT43XC815	C	41°21'33"	72°55'34"	62	DB932DG65VT4E-M	210
CT43XC821	A	41°24'13"	72°53'52"	46	DB980F65E-M	330
CT43XC821	B	41°24'13"	72°53'52"	46	DB980F65E-M	120
CT43XC821	C	41°24'13"	72°53'52"	46	DB980F65E-M	190
CT43XC839	A	41°28'49"	72°49'06"	118	DB980H65E-M	330
CT43XC839	B	41°28'49"	72°49'06"	118	DB980H65E-M	90
CT43XC839	C	41°28'49"	72°49'06"	118	DB980H65E-M	210
CT43XC844	A	41°32'11"	72°57'26"	148	DB980F65T4E-M	50
CT43XC844	B	41°32'11"	72°57'26"	148	DB980F65E-M	170
CT43XC844	C	41°32'11"	72°57'26"	148	DB980F65E-M	290
CT60XC007	A	41°27'17"	72°49'05"	74	RR65-18-00DPL2	30
CT60XC007	B	41°27'17"	72°49'05"	74	RR65-18-00DPL2	150
CT60XC007	C	41°27'17"	72°49'05"	74	RR65-18-00DPL2	260
CT60XC955	A	41°30'27"	73°02'37"	55	DB932DG65T2E-M	320
CT60XC955	B	41°30'27"	73°02'37"	55	DB932DG65T2E-M	150
CT60XC955	C	41°30'27"	73°02'37"	55	DB932DG65T2E-M	235
CT60XC991	A	41°22'42"	72°52'40"	100	DB950F85E-M	30
CT60XC991	B	41°22'42"	72°52'40"	100	DB950F85T4E-M	150
CT60XC991	C	41°22'42"	72°52'40"	100	DB950F85E-M	290
CT54XC773	A	41°26'58"	72°54'17"	157	DB950F65E-M	0
CT54XC773	B	41°26'58"	72°54'17"	157	DB950F65T2E-M	200
CT54XC773	C	41°26'58"	72°54'17"	157	DB950F65E-M	290

Site Search and Selection Process - To find a site that provides acceptable service and fills gaps in coverage, computer modeling is used to define a search ring. The search rings are designed such that a site located within the rings would have a high probability of completing coverage in the target areas (assuming that sufficient height is used). Attachment C shows the search rings designed to provide the required coverage.

Once these search rings are designated Sprint PCS's real estate department searches, within the defined area, for existing buildings, towers and other structures of sufficient height that would fill coverage gaps within the network.

Sprint PCS was unable to locate an existing structure capable of providing the required coverage. As a result a new tower is needed to provide the required coverage. The locations submitted are shown in Attachment D. Not all sites submitted had the potential to achieve the coverage objectives. Below is a table of the candidate sites shown in Attachment D with an explanation of why the candidate can or cannot be used.

Alternative's Investigated

Candidate Name (See attachment D for Locations)	Location	Evaluation
CT54XC773	150 Willow Street, Hamden, CT	Primary Candidate
CT54XC773-01 NU Power Mount	150 Willow Street, Hamden, CT	Does not satisfy all coverage objectives.
CT54XC773-02 NU Power Mount # 2466	450 Tuttle Ave. Rear, Hamden, CT	Does not satisfy all coverage objectives.
CT54XC773-03 NU Power Mount # 2465	450 Tuttle Ave. Rear, Hamden, CT	Does not satisfy all coverage objectives.
CT54XC773-04 NU Pole	Old lane road, Cheshire, CT	Does not satisfy all coverage objectives.
FD Whip	King Road, Cheshire, CT	Does not provide the required coverage to Rt. 10.
NU Pole #1	Brooksvale Ave, Hamden, CT	Does not provide the required coverage to Rt. 10 south of the site.
NU Pole #2	Gaylord Mountain Road, Hamden, CT	Does not provide the required coverage to Rt. 10 north of the site.
NU Pole #3	Cook Hill Road, Cheshire, CT	Does not provide the required coverage to Rt. 10.
NU Pole #4	Mansion Road, Wallingford, CT	Does not provide the required coverage to Rt. 10.
Golf Range Polse	Brooksvale Ave, Hamden, CT	Does not provide the required coverage to Rt. 10 south of the site.
NU Pole #5	Turtle Avenue, Wallingford, CT	Does not provide the required coverage to Rt. 10.
Silo	Kenwood Road, Hamden, CT	Does not satisfy all coverage objectives.
Quinnipiac Univ Bldg	Hogan Road, Hamden, CT	Does not satisfy all coverage objectives.
Cingular Flagpole @ Quinnipiac Univ	New Road, Hamden, CT	Does not satisfy all coverage objectives.
Old AT&T Tower	Higgins Road, Cheshire, CT	Does not provide the required coverage to Rt. 10.

Transmitters, Antennas and Power Density - The base station equipment will be a Lucent PCS mini-cell or mod-cell. The primary RF components related to power density consist of RF amplifiers and antennas. The transmit frequency range will be 1950-1965 MHz. The maximum power generated by the RF amplifiers is 16 watts per carrier with a maximum of 11 carriers per sector. The final maximum power density is determined primarily by the height and type of antenna used. Calculations for maximum power density are outlined in the power density analysis below.

Power Density Analysis - The Personal Communications Services (PCS) transmitting systems to be used at the site operate in the range of frequencies subject to FCC Regulation. This is the PCS B-Band, and transmits at 1950-1965 MHz.

The Sprint PCS transmitting antennas will be located at an antenna centerline of 157 feet AGL. This site will consist of 3 sectors oriented approximately 120 degrees apart, with a maximum of 11 channels transmitting per sector. Therefore, as many as 33 Sprint PCS channels can be transmitted at this site.

Pursuant to Section 24.52(a) of the former FCC rules, PCS licensees were required to comply with the human exposure levels established by the American National Standards Institute (ANSI). The FCC radio frequency exposure guidelines require PCS operators to comply with the exposure criteria established by the National Council on Radiation Protection and Measurements (NCRP). The NCRP criteria are more restrictive than the ANSI/IEEE standard. Therefore, the following calculations are made relative to the NCRP criteria. Calculations have been made using conservative methods consistent with the FCC's OET Bulletin 65, and use 1.0 mW/cm^2, which is the maximum permissible exposure as specified by NCRP for PCS carriers.

The following table shows the calculated power density and the percent of the Maximum Permissible Exposure (MPE) assuming the ERP is equal in all directions. In other words, no power-level adjustments were made due to the vertical pattern of the antennas, and the full 299.95 watts per channel was used for each location (which is a worst-case assumption). The highest power density is at the base of the tower, which is the closest accessible point to the antennas. For the proposed 157 ft. tower located 150 Willow Street, Hamden, CT, the power density for the Sprint PCS antennas is .048 mW/cm^2 and the MPE is 4.82%, which is low compared to the NCRP standard.

Although the power density calculations for the alternate candidate have not been included in this report, the results will be similar to the primary candidate, and can be supplied if requested.

These calculations show that we are well below the FCC-mandated limits in all locations around the tower even with extremely conservative assumptions

CT54XC773 Hamden CT

Worst Case Power Density Analysis of Sprint PCS Antennas @ Base of Building. Assumes Max ERP & No Antenna Pattern Adjustment

Operating Frequency (MHz)	Number of Trans.	Effective Radiated Power (ERP) Per Transmitter (Watts)	Total ERP (Watts)	Antenna Height (Feet)	Distance From Base of Tower (Feet)	Calculated Power Density (mW/cm2)	Maximum Permissable Exposure*	%MPE
1962.5	11	299.95	3299.45	157	0	0.0482	1	4.82%
1962.5	11	299.95	3299.45	157	50	0.0438	1	4.38%
1962.5	11	299.95	3299.45	157	100	0.0343	1	3.43%
1962.5	11	299.95	3299.45	157	150	0.0252	1	2.52%
1962.5	11	299.95	3299.45	157	200	0.0184	1	1.84%
1962.5	11	299.95	3299.45	157	250	0.0136	1	1.36%
1962.5	11	299.95	3299.45	157	300	0.0104	1	1.04%
1962.5	11	299.95	3299.45	157	350	0.0081	1	0.81%
1962.5	11	299.95	3299.45	157	400	0.0064	1	0.64%
1962.5	11	299.95	3299.45	157	450	0.0052	1	0.52%
1962.5	11	299.95	3299.45	157	500	0.0043	1	0.43%
1962.5	11	299.95	3299.45	157	550	0.0036	1	0.36%
1962.5	11	299.95	3299.45	157	600	0.0031	1	0.31%
1962.5	11	299.95	3299.45	157	650	0.0027	1	0.27%
1962.5	11	299.95	3299.45	157	700	0.0023	1	0.23%
1962.5	11	299.95	3299.45	157	750	0.0020	1	0.20%
1962.5	11	299.95	3299.45	157	800	0.0018	1	0.18%
1962.5	11	299.95	3299.45	157	850	0.0016	1	0.16%
1962.5	11	299.95	3299.45	157	900	0.0014	1	0.14%
1962.5	11	299.95	3299.45	157	950	0.0013	1	0.13%
1962.5	11	299.95	3299.45	157	1000	0.0012	1	0.12%

*Requirements set forth in OET Bulletin 65. Based on NCRP Report No. 86 and ANSI/IEEE C95.1-1992

Forecast of Maximum Capability – Sprint PCS has implemented a digital CDMA network to provide a P.02 grade of service. A P.02 grade of service means that a subscriber of the system will be able to place calls 98 percent of the time during the busiest (peak) hours of the day. During non-peak times, the grade of service will be better than P.02.

Cells, which are designed and equipped for a given capacity, will normally operate at much less than capacity during the growth of the system. Accordingly, Sprint PCS actually provides a much better grade of service while traffic in each cell increases to design loading conditions.

As Sprint PCS digital network evolves Sprint monitors the actual grade of service on a cell-by-cell basis. Factors affecting the grade of service are:

- Call attempts
- Call holding time
- Call distribution over time (average and peak)
- Call distribution over geography (Users in weaker coverage areas negatively affect capacity of the cell)

If the grade of service for any single cell site falls below the desired grade of service, Sprint PCS will take steps to expand its facilities that serve the cell. These steps can include:

- Antenna changes
- Cell balancing through call processing parameters and power adjustments
- Adding channels

These steps all serve to delay the process of cell splitting.

Based on the current and projected number of subscribers as well as current and projected usage patterns, it is anticipated that cell splitting at this location will not be required for at least five years.

Alternatives – Sprint PCS provides a digital communications service using PCS technology in the 1900 MHz frequency band as allocated by the FCC. This frequency is over twice the operating frequency of traditional cellular service that is in the 800 MHz band. The higher 1900 MHz signals degrade quickly in hilly areas and areas of dense foliage.

To provide adequate service, a significant height must be used in order for the cell to communicate with the mobile and for the mobile to communicate with the cell. In some cases communication from the cell to the mobile can be improved by using a higher power at the cell. However, this approach will not improve communication from the mobile to the cell.

Common alternatives to monopole technology relevant to CDMA technology include repeaters and microcells. A repeater is a low power system, which receives a signal from an existing site and then amplifies this signal for rebroadcasting in the target area. A microcell is a low power system resembling a small version of a cell site.

These alternative technologies are useful for filling small gaps in coverage or providing service in buildings, but are severely limited by coverage and capacity. The current gap in service is significant; therefore these alternatives are not realistic.

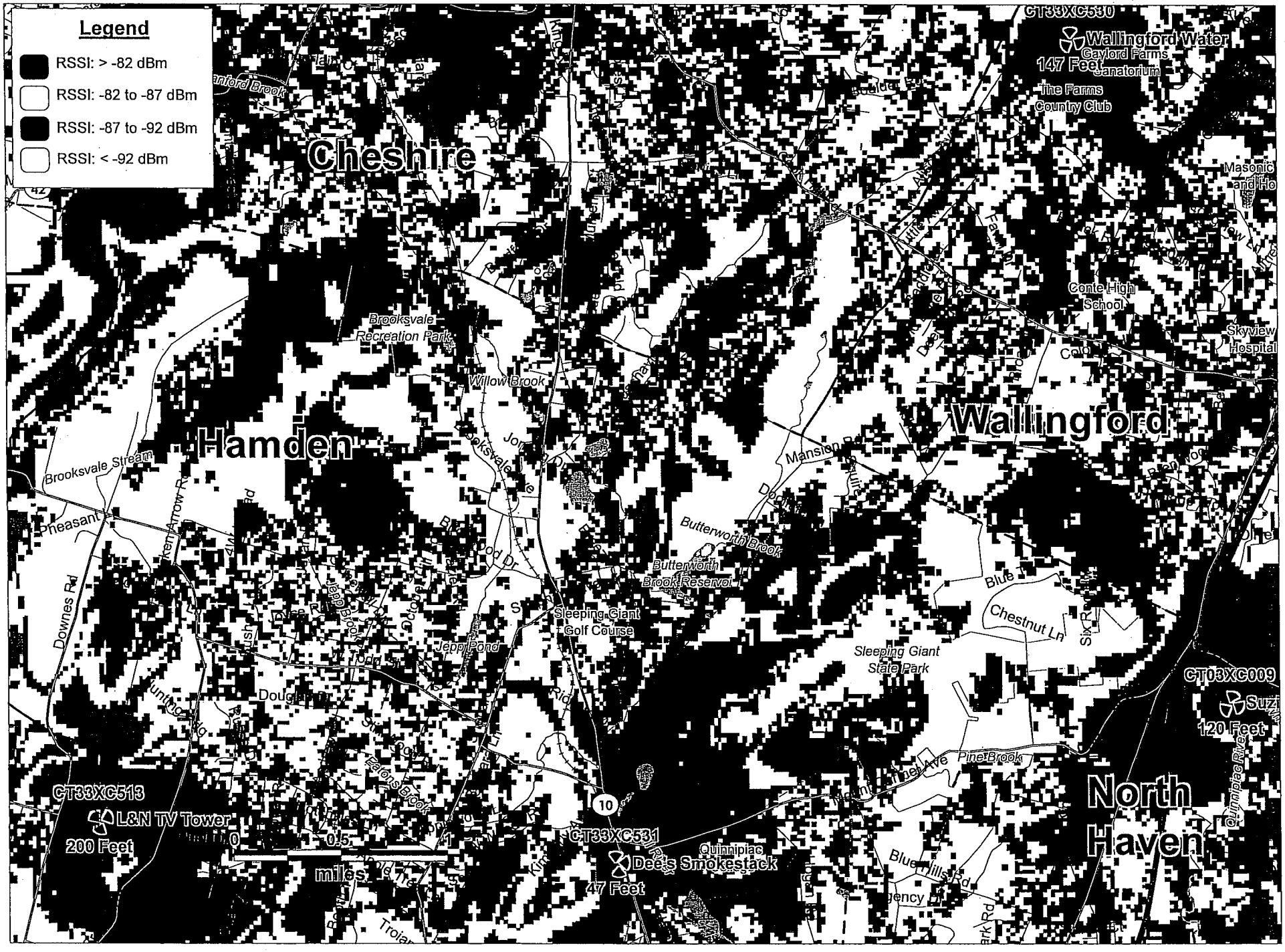
Should Sprint PCS require additional or improved service in smaller target areas following the construction of the new tower, Sprint PCS would consider these alternatives.

Due to the propagation characteristics of the 1900 MHz signals and the limitations of the alternative technologies there are no technical alternatives to the collocation at the extended tower.

Proposed Facility – Sprint proposes to install six panel antennas in a three-sector array on a triangular platform with the centerline of the antennas at a height of 157 feet. These panel antennas are 60 inches in the vertical and 10.5 inches wide. The maximum ERP is 299.95 watts per channel or 3299.45 watts per sector assuming eleven channels per sector.

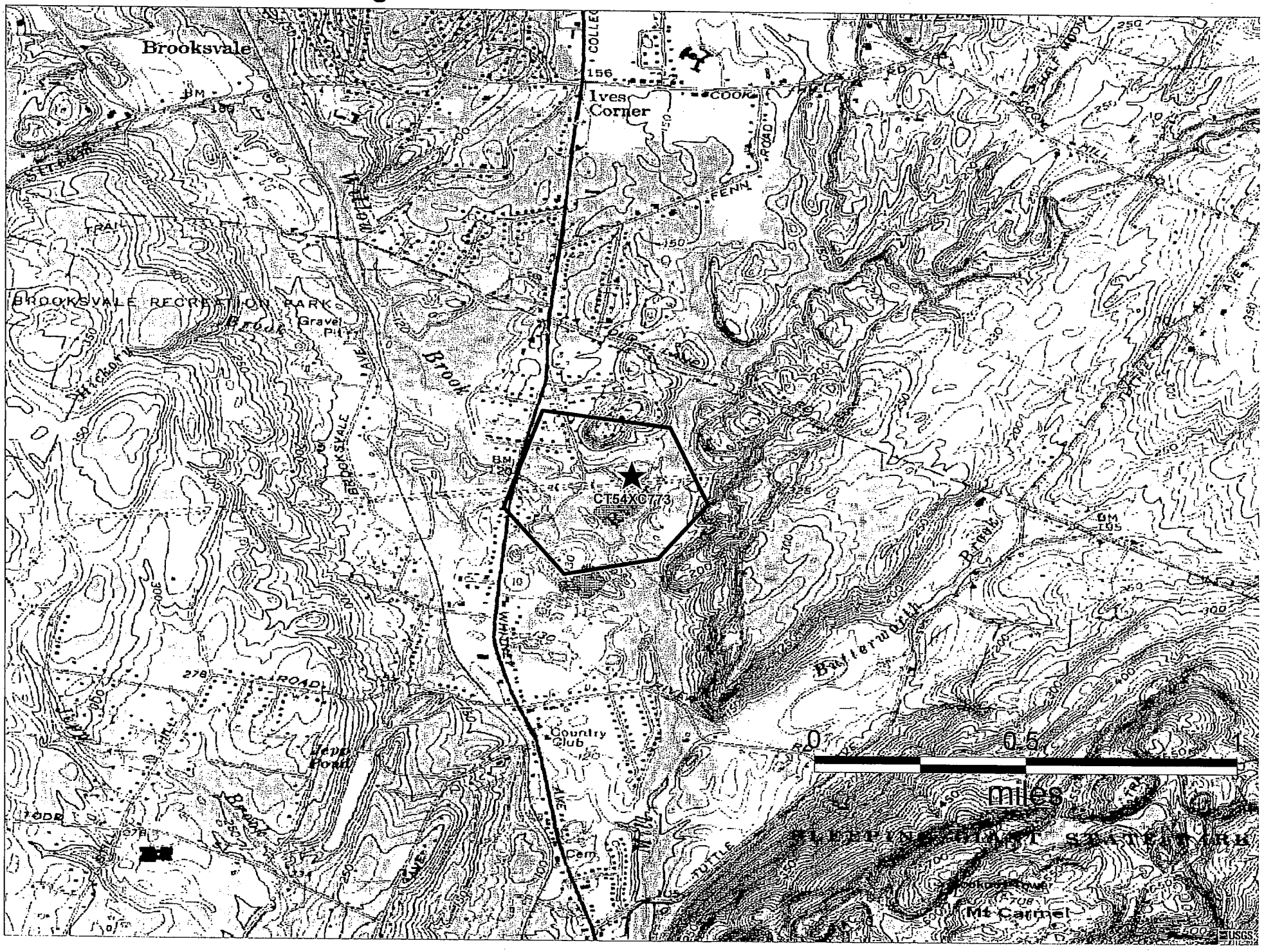
Summary – The terrain in Hamden limits both the coverage from existing sites and locations that will work to fill the coverage gaps in Hamden. There is no existing structure available, and a new 157 foot tower is needed to provide coverage where required. Without a site in this area a significant gap in service will exist. As usage on the Sprint PCS network increases this gap in our network will also increase.

Attachment A - Coverage from Surrounding Sites

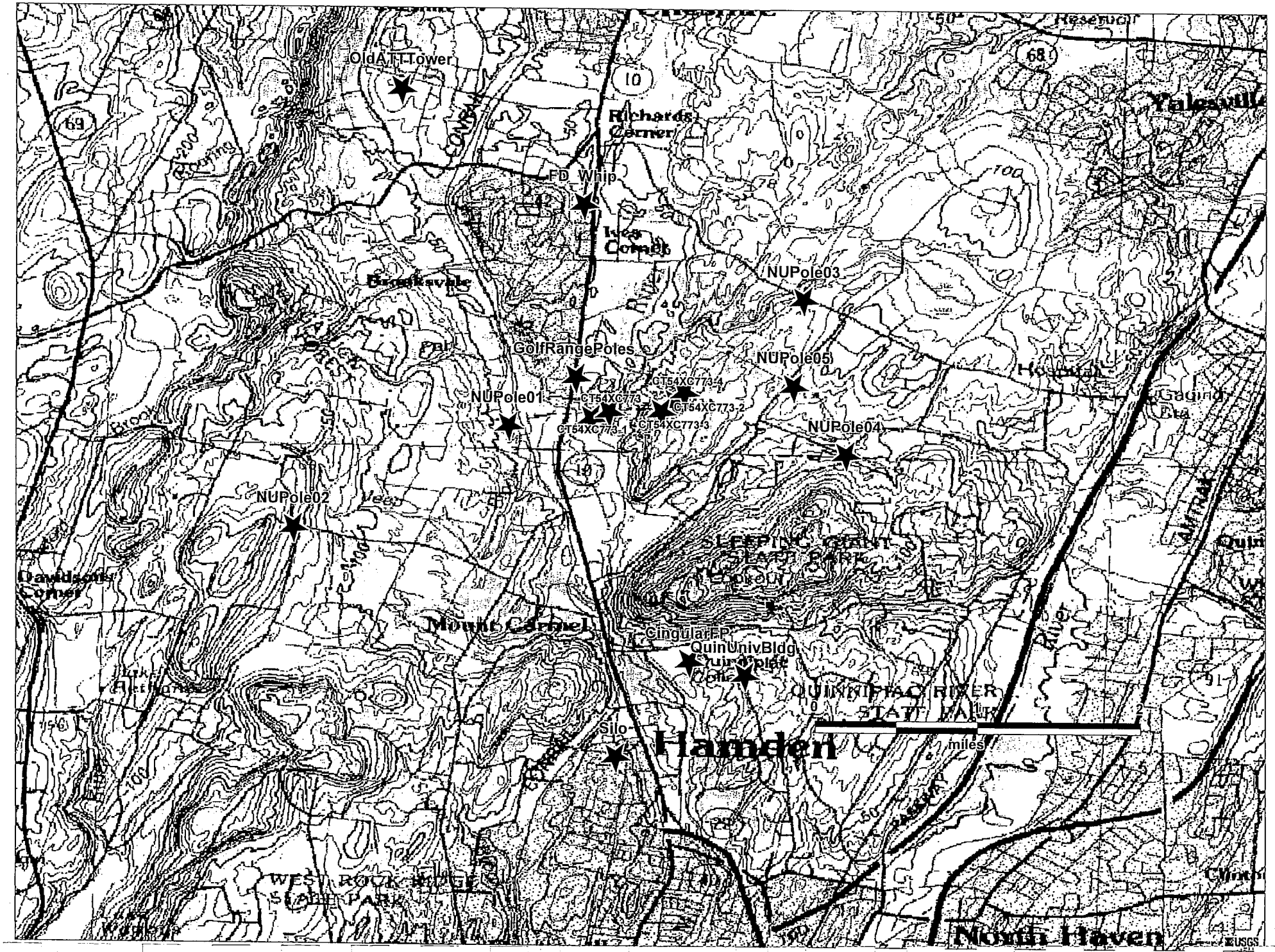


Attachment B - Coverage with Proposed Site

Attachment C - Search Ring



Attachment D - Two Mile Scrub



THOMAS J. REGAN
Direct Dial Telephone: (860) 509-6522
E-MAIL: tregan@brownrudnick.com

BROWNRUDNICK

FILE

CityPlace I
185 Asylum
Street
Hartford
Connecticut
06103
tel 860.509.6500
fax 860.509.6501

Via FedEx

July 27, 2006

Matt Hall, Chairman
Cheshire Town Council
Town of Cheshire
Town Hall
84 South Main Street
Cheshire, CT 06410

RE: Pre-Application Filing Sprint Nextel Corporation ("Sprint") Proposed Cellular Communications Facility For Property on 150 Willow Street, Hamden, Connecticut, Hamden Fish & Game Protective, Owner

Dear Chairman Hall:

In satisfaction of Connecticut General Statutes Section 16-50l(e), enclosed please find four (4) copies of the documents prepared for Sprint (the "Applicant") in anticipation of its filing of an "Application for Certificate of Environmental Compatibility and Public Need" for the construction, maintenance and operation of a facility to provide wireless service in the Hamden area.

Section 16-501(e) states, in part, "At least 60 days prior to the filing of any application with the Council, the applicant shall consult with the municipality in which the facility may be located and with any adjoining municipality having a boundary not more than 2500 feet from such facility ...". As the Town of Cheshire may be within 2500 feet from the proposed facility, this pre-application package is being transmitted to the Town of Cheshire for its review.

The information contained herein has been prepared in concert with the requirements of the revised Connecticut Siting Council Application Guide for Community Antenna Television and Telecommunications Facilities. Included in this

brownrudnick.com

filing are technical reports concerning the public need, the site selection process, and the environmental effects of the proposed facility.

Please recognize that after an extensive search, we have identified the property as outlined in the attached documents as the potential candidate for the location of a wireless telecommunications facility for the Applicant. We are seeking your input concerning the proposed facility.

As you are aware, the municipality may conduct public hearings and meetings as it deems necessary for it to advise the Applicant of its recommendations concerning the proposed facility. We are available, at your discretion, to meet with you and other parties to review the proposed facility and application. Please note that the municipality must issue its recommendations to us within sixty (60) days of the consultation and receipt of this filing.

If you have any questions, please do not hesitate to contact the undersigned directly.

Very truly yours,

BROWN RUDNICK BERLACK ISRAELS LLP

By: _____
Thomas J. Regan

TJR/bh
Enclosures
cc/encls: William S. Voelker, Town Planner