

**Sprint Nextel • Proposed SMR Base Station (Site No. CA-2608F)
28th Avenue and Quintara Street • San Francisco, California**

Statement of Hammett & Edison, Inc., Consulting Engineers

The firm of Hammett & Edison, Inc., Consulting Engineers, has been retained on behalf of Sprint Nextel, a personal wireless telecommunications carrier, to evaluate the base station (Site No. CA-2608F) proposed to be located at 28th Avenue and Quintara Street in San Francisco, California, for compliance with appropriate guidelines limiting human exposure to radio frequency (“RF”) electromagnetic fields.

Background

The San Francisco Department of Public Health has adopted a 10-point checklist for determining compliance of WTS facilities with prevailing safety standards. The acceptable limits for exposures of unlimited duration are those adopted by the FCC:

<u>Personal Wireless Service</u>	<u>Approx. Frequency</u>	<u>Occupational Limit</u>	<u>Public Limit</u>
Personal Communication (“PCS”)	1,950 MHz	5.00 mW/cm ²	1.00 mW/cm ²
Cellular Telephone	870	2.90	0.58
Specialized Mobile Radio	855	2.85	0.57
[most restrictive frequency range]	30–300	1.00	0.20

The site was visited by the undersigned engineer on September 27, 2005, a non-holiday weekday, and reference has been made information provided by Sprint Nextel, including zoning drawings by Morrison Hershfield, dated September 15, 2005.

Checklist

1. The location of all existing antennas and facilities at site. Existing RF levels.

There were noted no existing antennas or wireless telecommunications facilities located at the site. Existing RF levels measured less than 1% of the most restrictive public exposure limit.

2. The location of all approved (but not installed) antennas and facilities. Expected RF levels from approved antennas.

No other WTS facilities or other communications facilities are reported to be approved for this site but not yet installed.

3. The number and types of WTS within 100 feet of proposed site and estimates of additive EMR emissions at proposed site.

There were observed no existing transmitting antennas within 100 feet of the proposed site.



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4. Location (and number) of Applicant's antennas and back-up facilities per building and location (and number) of other WTS at site.

Sprint Nextel proposes to mount three Andrew Model RR65-12-00DBL directional SMR antennas on a new 60-foot steel pole, configured to resemble a pine tree, to be located at 28th Avenue and Quintara Street. The antennas would be mounted at an effective height of about 50 feet above ground with 3° downtilt and would be oriented at 120° spacing, to provide service in all directions.

5. Power rating (maximum and expected operating power) for all existing and proposed backup equipment subject to application.

The maximum power rating of the Sprint Nextel transmitters to be installed is 40 watts. The actual operating power of the transmitters will depend upon the system losses encountered after the physical cabling runs have been installed; the transmitters may operate at a power less than their maximum rating, such that the maximum radiated power does not exceed the level given in Item 6 below.

6. Total number of watts per installation and total number of watts for all installations at site.

The maximum proposed effective radiated power in any direction for Sprint Nextel is 240 watts, representing the simultaneous operation of six channels at 40 watts each.

7. Plot or roof plan showing method of attachment of antennas, directionality of antennas, and height above roof level. Discuss nearby inhabited buildings.

The drawings show the proposed antennas to be installed as described in Item 4 above. There were noted no taller buildings located nearby.

8. Estimated ambient RF levels for proposed site and identify three-dimensional perimeter where exposure standards are exceeded.

For a person anywhere at ground, the maximum ambient RF exposure level due to the proposed Sprint Nextel operation is calculated to be 0.00059 mW/cm², which is 0.10% of the public exposure limit. The maximum calculated level at any nearby building is 0.26% of the public exposure limit. The three-dimensional perimeter of RF levels equal to the public exposure limit does not reach any publicly accessible areas; it is calculated to extend less than 7 feet directly in front of the Sprint Nextel antennas and to much lesser distances behind, below, above, and to the sides of the antennas.*

9. Describe proposed signage at site.

Due to their mounting locations, the Sprint Nextel antennas are not accessible to the general public, and so no mitigation measures are necessary to comply with the FCC public exposure guidelines. It is presumed that Sprint Nextel will, as an FCC licensee, take adequate steps to ensure that its employees

* Located at least 120 feet away, based on the drawings.

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or contractors comply with FCC occupational exposure guidelines whenever work is required near the antennas themselves.

10. Statement of authorship.

The undersigned author of this statement is a qualified Professional Engineer, holding California Registrations Nos. E-13026 and M-20676, which expire on June 30, 2007. This work has been carried out by him or under his direction, and all statements are true and correct of his own knowledge except, where noted, when data has been supplied by others, which data he believes to be correct.

Conclusion

Based on the information and analysis above, it is my professional opinion that the proposed Sprint Nextel base station operation at 28th Avenue and Quintara Street in San Francisco can comply with the prevailing standards for limiting human exposure to radio frequency energy and, therefore, need not for this reason cause a significant impact on the environment.



William F. Hammett

William F. Hammett, P.E.

April 26, 2006

