

Radiofrequency Electromagnetic Field Measurements

On behalf of W252CS
Sound of Long Island, Inc.

Hungry Wolf Electronics

March 7, 2023

The construction permit for W252CS, BLFT-20151130FFB, contains the following special operating condition:

The permittee/licensee shall, upon completion of construction and during the equipment test period, make proper radiofrequency electromagnetic (RF) field strength measurements throughout the area, including inside and on the roof of all nearby buildings, to determine if there are any areas that exceed the FCC guidelines for human exposure to RF fields. Any areas, including inside or on the roof of a building, found to exceed the recommended guidelines must be clearly marked with appropriate visual warning signs which describe the nature of the hazard. Furthermore, access to these areas must be restricted to prevent the exposure of humans to RF fields in excess of the FCC Guidelines (OET Bulletin No. 65, Edition 97-01, August 1997). Documentation demonstrating compliance with this special operating condition shall be submitted at the time of filing of the license to cover application.

A set of measurements was made by the undersigned on March 7, 2023, on the roof of the building at 260 Bergen Boulevard, Passaic Park, New Jersey, which is the location of this facility. At the time of these measurements the facility was fully constructed, and the transmitter was operating at the power required for the construction permit Effective Radiated Power of 120 Watts.

The antenna array is mounted to the wall of a stairway penthouse, with the antennas just above the roof of that penthouse. Since no ladder was available at the time of measurements no measurement was made on the penthouse roof itself.

There are cellular antennas at several locations on the edge of the main roof. There are also various land mobile type antennas located at the far end of the building, on a lower roof.

Measurements were made all over the main roof using a Tenmars TM-195 instrument. The measurements were made at heights above the roof covering the human body. There is a gridwork on which the transmitter cabinet is mounted which is approximately 4' above the level of the roof, measurements were also made on this platform. The other items on the main roof are air handling systems.

The maximum power density observed at any point on the main roof or on the gridwork platform was $168 \mu\text{W}/\text{cm}^2$. The maximum power density observed on high floors inside the building was $42 \mu\text{W}/\text{cm}^2$. The maximum permissible exposure for the General Population, from OET-65 Edition 97-01, Table 1 (B) is $0.2 \text{ mW}/\text{cm}^2$. The measured power density is therefore well below the maximum allowed.

Since no formal measurements were made on the penthouse roof a sign was placed on the roof access door requiring that the W252CS transmitter be turned off when workers access this roof. This door provides the only access to the main roof, and is normally locked and alarmed.

The measurements were made by me and are true and accurate to the best of my knowledge and belief.



William Weeks
Marcy 7, 2023



460 Bergen Boulevard

All surrounding buildings below main roof level



Antenna mounted on the penthouse wall



Gridwork platform with the transmitter cabinet



One of several cellular antennas on roof perimeter



Door to main roof with warning sign