

# **RF Radiation Compliance Measurements WWBB Providence, RI Facility ID# 54568**

These measurements were made to comply with Special Condition 3 of Construction Permit BPH-20150213ACG. While the antenna remains an ERI EPA Type 3, the model has changed to a 2 bay half wave spaced.

## **Facilities:**

WWBB is authorized by Construction Permit BPH-20150213ACG for an ERP of 6.0KW (H & V) and utilizes a two bay ERI model LP-2E-DA-HW half wave antenna. The antenna is side mounted on an 11.9 meter self-supported pole structure atop a high rise building with its center of radiation located at 10.2 meters above the main roof level. Access to the roof is restricted by locked doors accessed from the 29<sup>th</sup> and 30<sup>th</sup> mechanical floors which are restricted from the general public. The roof is a controlled area with appropriate cautionary signs posted.

## **Measurements:**

On November 18, 2015 while operating into the antenna at authorized power, measurements were made in all generally accessible areas on the upper floors of the building and within the 29<sup>th</sup> and 30<sup>th</sup> floor mechanical rooms immediately below the roof, and in the elevator rooms, and on all roof levels. Due to the low levels measured on the 29th floor and 30<sup>th</sup> floors, testing the floors below would be a needless disturbance of tenants. Measurements were made in accordance with guidelines provided in OET Bulletin 65 Edition 97-01 with regard to General Population / Uncontrolled Exposure and Occupational / Controlled Exposure limits. A NARDA 8718B EM Survey meter utilizing an A8742D Shaped E Field Probe was used to make the measurements. The A8742D is a shaped probe providing a reading of the electric field component in percentage of the plane wave equivalent power density corresponding to the 1997 FCC Occupational Standard. Measurements were made using the "Max Hold" function of the NARDA 8718B meter while slowly walking a survey grid around the site sweeping the meter probe up and down in an oscillatory fashion covering as much volume of space as practical. In areas where the indicated RF exposure levels approached or exceeded 100%, spatially averaged measurements were made utilizing the spatial averaging functionality built into the NARDA 8718B.

## **General Population / Uncontrolled Exposure:**

In none of the accessible areas inside the building did the RF exposure levels exceed the 1997 FCC General Population / Uncontrolled Exposure limit. The maximum electric field observed within the building is in the hallway on the 30<sup>th</sup> floor in the south side of the building adjacent to the transmitter cage, and is 2.5% of the Occupational limit which is also 12.5% of the 1997 FCC General Population / Uncontrolled Exposure limit. All other areas inside the building are below this level.

## **Occupational / Controlled Exposure:**

In none of the areas on the 30<sup>th</sup> floor chiller pit did the RF exposure levels exceed the 1997 FCC Occupational Exposure limit. The maximum electric field observed on that level is 6% of the Occupational limit. In none of the areas on the main (upper) roof did the RF exposure levels exceed the 1997 FCC Occupational Exposure limit. The maximum electric field observed on that level is 9.8% of the Occupational limit which is 48% of the General Population Limit

The licensee along with other users of the site will reduce power or cease operating as necessary to protect workers on the upper roof from RF exposure in excess of FCC guidelines.