Engineering Exhibit
K259AF (FM) (Facility ID# 2203)
RF Radiation Compliance Statement
Exhibit to Application to Cover BPFT-20110701AAX

Facilities:

K259AF (FM) utilizes a non-directional 2-bay circularly-polarized antenna side mounted on a pole at a location 41 meters above ground level, upon an existing rooftop identified as the Patterson Hotel building. The Patterson Hotel building rooftop provides leased space for numerous facilities in broadcast, land mobile, public service, two-way and microwave services. Access is to the roof is tightly restricted through building management. The Patterson Hotel building rooftop therefore qualifies as an Occupational/Controlled Environment as defined by FCC OET Bulletin 65 standards. A locked and appropriately signed door secures access to the building roof where the antenna is located. The entire area on the roof is designated as an Occupational/Controlled access area, K259AF (FM), in cooperation with other licensees, will reduce power or cease operations as necessary to protect persons having access to the site, including the roof top area, from RF exposure in excess of FCC guidelines.

Measurement Methodology:

On October 1, 2013 measurements were conducted by the K259AF (FM) engineering staff in all areas within the transmitter site and nearby buildings, on the roof and surrounding areas including inside generally accessible and restricted areas of the building 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 SRM-3006 selective radiation meter utilizing a LF single-axis E-field antenna was utilized to make the measurements. The LF single-axis E-field antenna has a usable response from 9 kHz – 300 MHz providing a reading of the electric field component in percentage of the plane wave equivalent power density corresponding to the 1997 FCC General Population Public Standard. Measurements were made using the "Max Hold" function of the Narda SRM-3006 meter while slowly walking a survey grid around the site sweeping the meter antenna up and down in an oscillatory fashion covering as much volume of space as practical.

Measurement Results:

At the Patterson Hotel (transmitter site) located at 422 East Main Avenue, no locations on the roof top or inside the building were identified that exceeded the limits specified in OET Bulletin 65 Edition 97-01 with regard to General Population/Uncontrolled or Occupational/Controlled exposure. The maximum peak electric field within the Controlled/Occupational Exposure roof top area was located at a distance of approximately 2m south of the K259AF (FM) antenna and was observed to be 11.1% of the 1997 FCC General Population/Uncontrolled Exposure limit. This corresponds to 2.2% of the 1997 FCC Occupational/Controlled Exposure limit. The roof of the building is designated as a Controlled/Occupational Exposure area. The door that provides access to the roof is kept securely locked at all times and signs are posted warning that fields may exist that exceeds occupational limits. No areas on the roof top were found that exceeded the FCC 1997

Occupational/Controlled Environment MPE standard for continuous exposure. Additional measurements were conducted inside the building within generally accessible areas with no peak reading above 0% identified. Thus, at this location, K259AF (FM) complies with OET Bulletin 65 Edition 97-01 with regard to Occupational/Controlled Exposure and General Population/Occupational Exposure at all points within the generally accessible and restricted areas of the building.

At the Dakota Building located at 400 East Broadway Avenue, no locations on the roof top or inside the building were identified that exceeded the limits specified in OET Bulletin 65 Edition 97-01 with regard to General Population/Uncontrolled or Occupational/Controlled exposure. The maximum peak electric field observed was 0% of general population public standard. The door that provides access to the roof is kept securely locked at all times. Additional measurements were conducted inside the building within generally accessible areas with no peak reading above 0% identified. Thus, at this location, K259AF (FM) complies with OET Bulletin 65 Edition 97-01 with regard to Occupational/Controlled Exposure and General Population/Occupational Exposure at all points within the generally accessible and restricted areas of the building.

At the Radisson Hotel building located at 605 East Broadway Avenue, no locations within the building or on the roof top were identified that exceeded the limits specified in OET Bulletin 65 Edition 97-01 with regard to General Population/Uncontrolled or Occupational/Controlled exposure. The maximum peak electric field observed was 0% of general population public standard. Thus, at this location, K259AF (FM) complies with OET Bulletin 65 Edition 97-01 with regard to Occupational/Controlled Exposure and General Population/Occupational Exposure at all points within the generally accessible and restricted areas of the building.

Conclusion:

The permittee/licensee has, during the equipment test period, made proper radiofrequency electromagnetic (RF) field strength measurements throughout the area, including inside and on the roof of nearby buildings, and determined that there are no areas which exceed the FCC guidelines for human exposure to RF fields. No area, including inside or on the roof of a building, was found to exceed the recommended guideline.

Signed: _____ **October 8th, 2013**

Erik Kuhlmann
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