W268BY MINOR MODIFICATION TO FM TRANSLATOR LICENSE 0000152231
0.099 kW DA FACILITY ID 147180 QUEENS, NY
ENGINEERING NARRATIVE AND RF RADIATION ENVIRONMENTAL ANALYSIS
OCTOBER 2021

W268BY is authorized to Sound of Long Island, Inc., and rebroadcasts FM station WVIP(FM) on 93.5 MHz licensed to New Rochelle, New York. The W268BY license was granted specifying rebroadcast of a WVIP(FM) HD channel, and that operation will continue. This application proposes continued use of the existing site but with the antenna RC reduced by 10 meters for the purpose of providing additional real world protection to co-ch station WKXW, Trenton, New Jersey across the arc from 160 degrees through 300 degrees. The antenna pattern has been modified to reflect added attenuation while maintaining the maximum ERP of 99 watts and major lobe pattern shape.

The applicant proposes herein to locate its proposed PSIFM5CLOG custom, circularly polarized five element log periodic antenna system on a level of the existing building that extends out from the facade and is 206 meters AGL. This elevation places the antenna above the main floor level of the building which supports a water tank, pipes and other mechanical equipment and is not accessible by the public. The greatest appurtenance height on the building is 217.6 M AGL. The building is existing, and no ASR is associated with the structure.

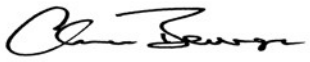
Utilizing the FCC FM Model online calculator for an EPA type 1 antenna with 99 watts ERP H & V with the above described antenna on CH 268 gives a maximum calculated power density of 0.095 microwatts per centimeter squared which is less than 0.05 percent of the 200 microwatts public exposure guideline. The antenna is mounted on the easterly side of the building so the signal is directed out and away from the building. Based on this analysis, and the fact access to the roof is through a locked and marked access door, it is believed that the proposed facility follows OET-65 Public Exposure Guidelines. The applicant will reduce power or cease transmission as required to meet FCC OET-65 worker Guidelines.

No allocation study is believed necessary as 1) the antenna RC AMSL has been reduced by 10 meters with no increase in ERP and 2) there is no increase in ERP at any antenna azimuth.

Figure 1, attached, compares the licensed and proposed 60 dBu contours and demonstrates that the proposed 60 dBu does not exceed the licensed 60 dBu at any azimuth.

Clearly the WVIP-FM 60 dBu contour, which has not changed, fully envelops the proposed 60 dBu contour.

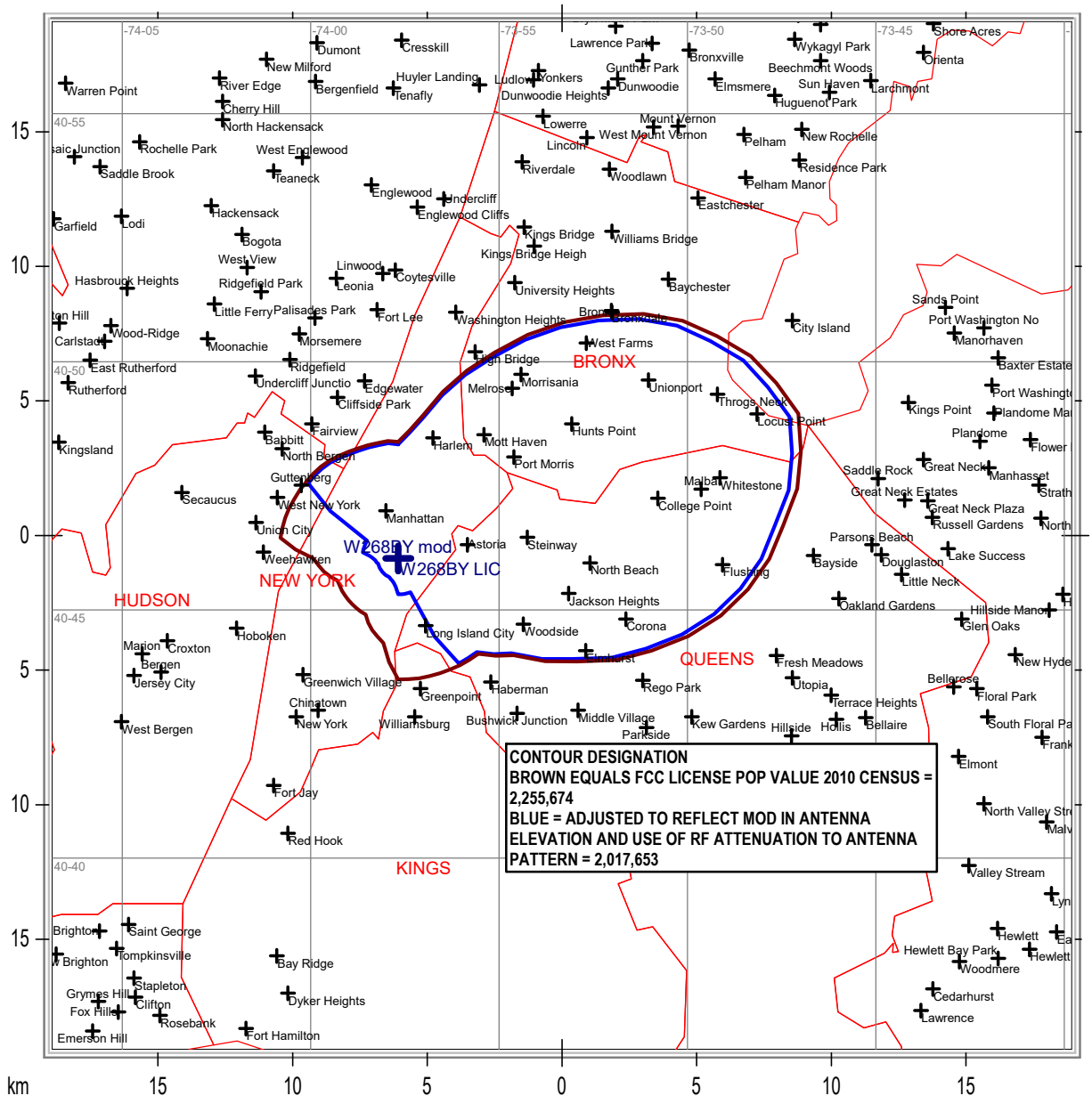
The foregoing was prepared on behalf of Sound of Long Island, Inc. by Clarence M. Beverage of Communications Technologies, Inc., Medford, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.



By _____

Clarence M. Beverage
for Communications Technologies, Inc.
Medford, New Jersey
October 16, 2021

W268BY 101.5 MHz 99 WATTS DA QUEENS, NEW YORK



Communications Technologies, Inc. Medford, New Jersey

County Borders Lat/Lon Grid