

Technical Statement
Application for Construction Permit
W235AY 94.9 mHz. Facility ID 60892 Troy, NY
March, 2012

The purpose of this application is to make changes in W235AY at Troy, NY. The following summary lists the changes:

1. Classify this facility as a fill-in translator for WGNA-FM/HD3 at Albany, NY (Facility ID 72118).
2. Change Transmitter Location
3. Change Community of License.

Discussion:

The proposed facility will be classified as a fill-in translator for FM station WGNA-FM/HD3 at Albany, NY. The proposal is fully spaced to all other facilities with the exception of nearby 3rd adjacent WYJB on channel 238 (95.5 mHz), and 2nd adjacent WYKV on channel 233 (94.5 mHz). Waiver requests are included herein relative to WYJB and WYKV.

The proposed facility will operate at 250 watts with a directional antenna. The 54 dBu contour of the proposed translator facility is fully contained within the 54 dBu contour of WGNA-FM. Further, the proposed 60 dBu contour overlaps the licensed 60 dBu contour of the present translator facility. A contour map is included that demonstrates compliance.

Waiver Request #1 – WYJB

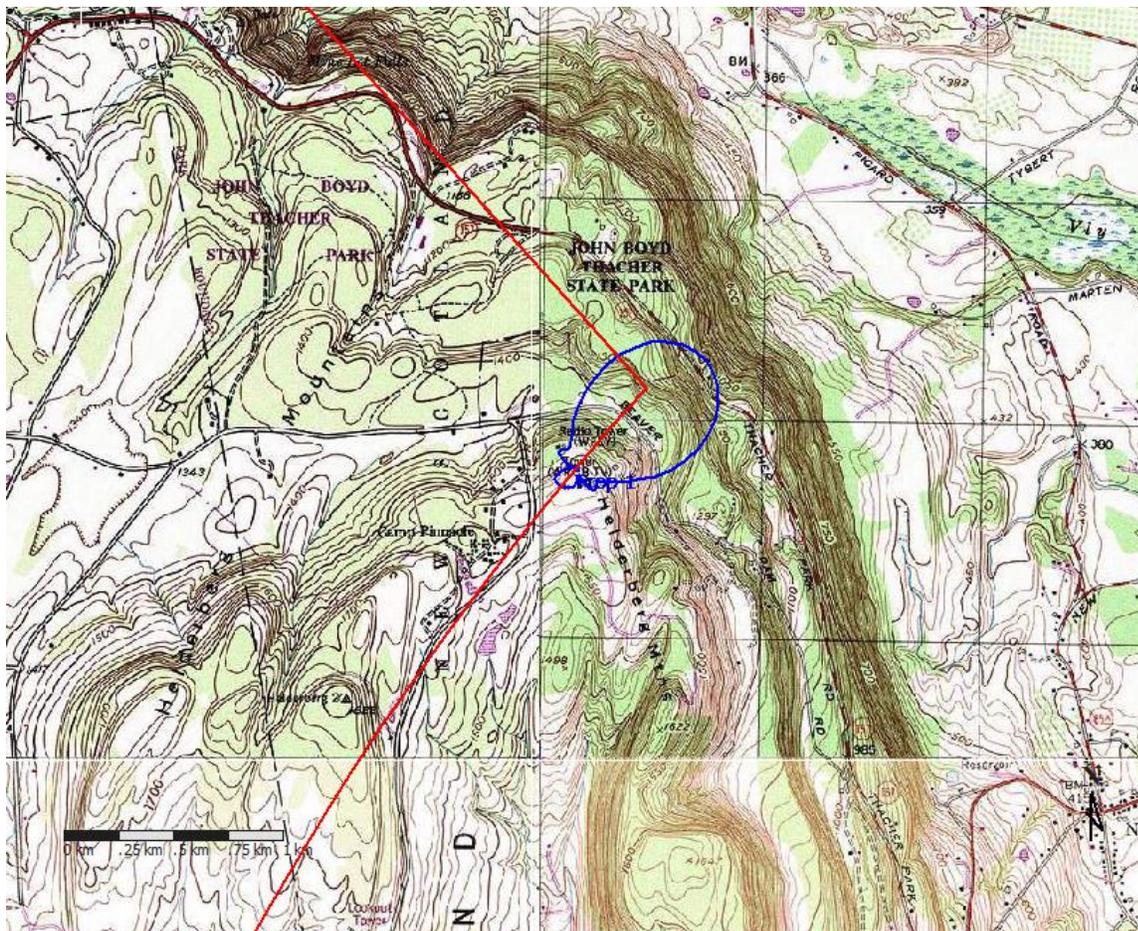
WYJB operates on third adjacent channel 238 (95.5 mHz) as a Class B station 12 kilowatts of power. Both transmitters are located in the same communications site antenna farm, albeit on adjacent towers separated by .214km (0.133 miles). For interference to occur to WYJB, the proposed 250 watt translator would require a signal 40 db stronger than WYJB. This is not possible.

Waiver Request #2 – WYKV

WYKV operates on second adjacent channel 233 (94.5 mHz.). It is determined that WYKV has signal strength of 62.3 dBu at the proposed translator site. In order for

actual interference to occur, the interfering signal must be 40 db greater than the protected signal. By taking into account the 62.3 dBu signal from WYKV and adding 40 dBu to it, the interfering contour then becomes 102.3 dBu. A contour map is shown below demonstrating how the 102.3 dBu interfering contour is in a remote area with no homes or buildings (other than transmitter buildings) or major roadways near or within the 102.3 dBu interfering contour. It should be noted this location contains most of the FM and Television Transmission Facilities for this market. Further, the actual interfering contour shown below does not take into account the elevation pattern characteristics of the antenna. Given the steep vertical descent in the direction of the main lobe of the transmit antenna, the actual interfering contour becomes much less at ground level than shown.

On the map below, the blue contour indicates the 102.3 dBu Interfering Contour. The Red Contour depicts the WYKV 62.3 dBu contour.



It is therefore the conclusion of the applicant that this request for waiver and minor modification of a licensed facility is within the guidelines of the FCC rules.