

**W268AN MINOR MODIFICATION TO FM TRANSLATOR CP BPFT-20181206AAQ**  
**0.013 kW DA FACILITY ID 151700 PLAINVIEW, NY**  
**ENGINEERING NARRATIVE AND RF RADIATION ENVIRONMENTAL ANALYSIS**  
**JUNE 2021**

W268AN is authorized to Apple Community Broadcasting, Inc. and proposes herein to rebroadcast FM station WVIP(FM) on 93.5 MHz licensed to New Rochelle, New York 44.4 kilometers distant. A log periodic antenna will be located on the tower structure to assure a quality HD off air signal. This application proposes an 8.24 km site change, continued operation on CH 268 and implementation of a new elliptically polarized yagi antenna with a maximum ERP of 13 watts.

The applicant proposes herein to locate its proposed, single, AST 020233X, elliptically polarized, two element, yagi antenna on FCC Registered Tower ASR 1017802. The antenna RC will be 51.8 M AGL.

Utilizing the FCC FM Model online calculator for an EPA type 1 antenna with 13 watts ERP H & V with the above described antenna on CH 268 gives a maximum calculated power density of 0.21 microwatts per centimeter squared which is 0.1% percent of the 200 microwatts public exposure guideline. Based on this analysis 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.

An allocation study tabulation, Exhibit I, is attached demonstrating that there is no impermissible contour overlap when the notes are considered. Figure 1, attached, shows no prohibited contour overlap from co-ch translator W268BY to the proposed 60 dBu. Figure 1, attached, depicts 2<sup>nd</sup> adjacent channel stations WCBS-FM and WFAN-FM 100.4 and 100.1 dBu contour levels respectively at the proposed new W268AN site. The allocation study tabulation demonstrates that the Free Space 100.1 dBu contour extends out 0.25 km from the site in the major lobe and there is no population within that contour and that no interference to WCBS-FM or WFAN-FM will occur. In an abundance of caution a continued waiver of FCC Rule 74.1204 is requested with regard to WCBS and WFAN.

Figure 2, attached, depicts the licensed and proposed 60 dBu contours and the area of common overlap required for minor change status.

The foregoing was prepared on behalf of Apple Community Broadcasting, 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  
June 16, 2021

## EXHIBIT I

### FM TRANSLATOR ALLOCATION STUDY W268AN FM TRANSLATOR MINOR MOD TO CP PLAINVIEW, NEW YORK LMS DATABASE 06152021

Search of channel 268 (101.5 MHz Class D) at 40-46-59.4 N, 73-22-01.4 W.

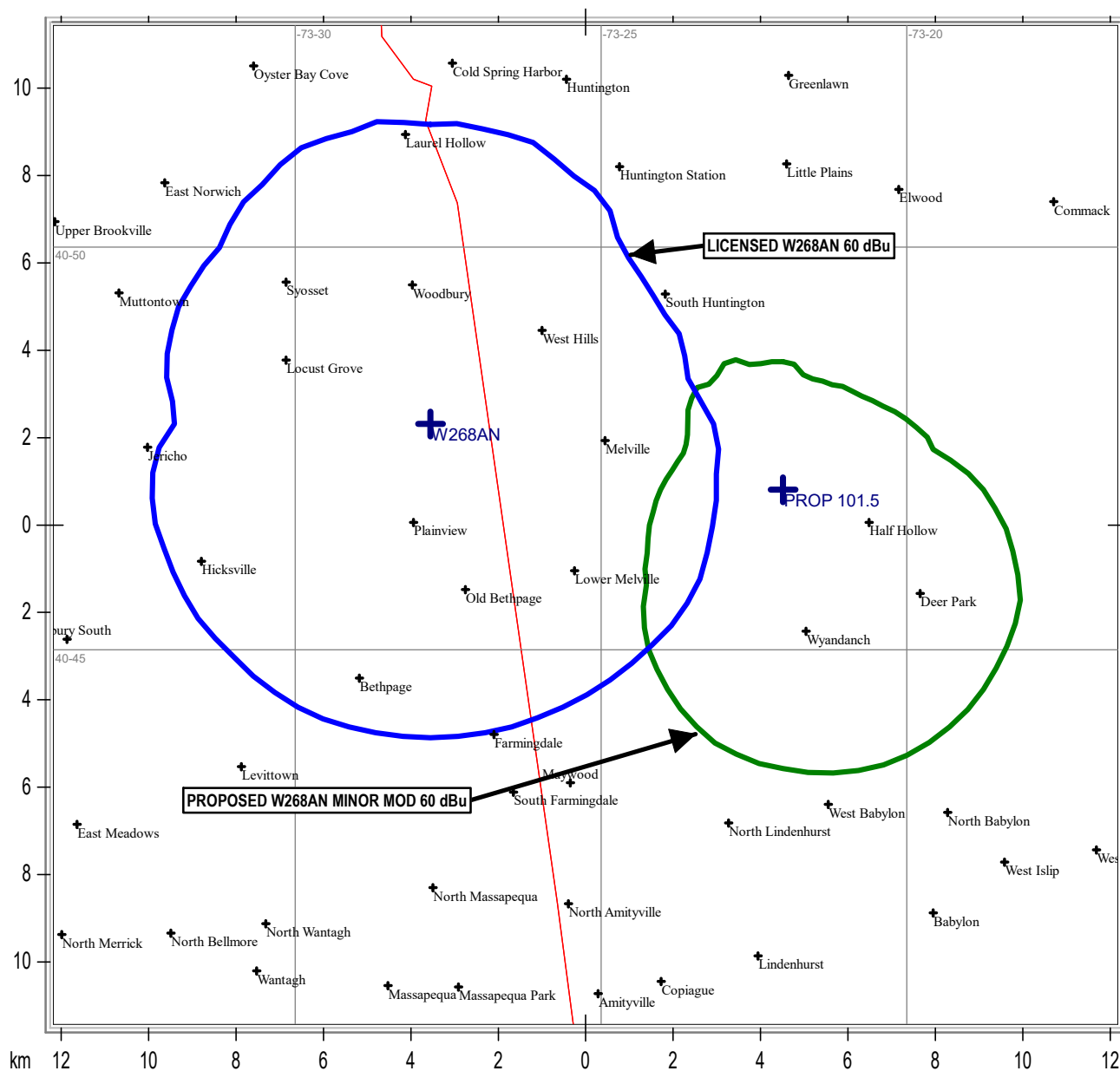
CALL	CITY	ST	CHN	CL	DIST	SEP	BRNG	CLEARANCE
WCBS-FM	NEW YORK	NY	266	B	52.38	0.00	266.0	-6.55 dB 1
WFAN-FM	NEW YORK	NY	270	B	52.38	0.00	266.0	-6.22 dB 1
W268BY CP	QUEENS	NY	268	D	50.19	0.00	268.2	0.14 dB 2
WKCI-FM	HAMDEN	CT	267	B	80.46	0.00	25.9	4.51 dB
WPDH	POUGHKEEPSIE	NY	268	B	116.56	0.00	333.4	13.45 dB
WKXW	TRENTON	NJ	268	B	124.80	0.00	243.9	15.92 dB
WBEA	SOUTHOLD	NY	269	A	67.38	0.00	81.5	18.81 dB
W268BY LIC	QUEENS	NY	268	D	38.69	0.00	265.3	21.67 dB

1. Please see FIGURE 1 contour map study. The proposed site continues to be located inside the 54 dBu protected contours of 2<sup>nd</sup> second adjacent channel stations WCBS CH 266B and WFAN CH 270B. The FCC Antenna Height Above Average Terrain Calculator shows a HAAT of 91 meters based on the standard twelve radials with FCC 30 second terrain data. The FCC FM and TV Propagation Curves shows distance to the 100.1 dBu F(50,10) signal as 0.25 km. There is no population within the proposed 100.1 dBu contour having a distance of 0.25 km in the major lobe. It is also noted that the tower is located in a heavily wooded area.
2. The W268BY CP, FCC file number 0000143767, 40 dBu clears the proposed translator 60 dBu as depicted on FIGURE 1.

*Communications Technologies, Inc. Medford, New Jersey*

 County Borders
  Lat/Lon Grid

## W268AN MINOR MOD TO CP CH 268AN 13 WATTS MAX DA PLAINVIEW, NY



*Communications Technologies, Inc. Medford, New Jersey*

County Borders      Lat/Lon Grid