

**EXHIBIT 11****CONTOUR STUDY**

THE CEDARVILLE UNIVERSITY  
GREENVILLE, OHIO

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This exhibit provides data supporting the applicant's proposal for a NEW FM Translator at Greenville, Ohio. Provided are terrain data, height of antenna above sea level and above average terrain, channel, power in kilowatts and the resulting 60 dBu (50/50 and 34 dBu (50/10) contour data with square kilometers of service area and population.

When coupled with Exhibit 12, compliance with 47 C.F.R. 74.1204 is supported.

**DISTANCE TO 60 dBu**

The terrain elevations and protected contour of the proposed NEW FM Translator

<u>øT</u>	<u>Height</u>	<u>HAAT</u>	<u>F(50,50)</u>	<u>60 dBu</u>
0ø	309.7	75.3	4.7 mi.	7.6 km.
30ø	310.4	74.6	4.7 mi.	7.5 km.
60ø	311.7	73.3	4.6 mi.	7.5 km.
90ø	309.1	75.9	4.7 mi.	7.6 km.
120ø	317.7	67.3	4.5 mi.	7.2 km.
150ø	316.7	68.3	4.5 mi.	7.3 km.
180ø	333.0	52.0	3.9 mi.	6.3 km.
210ø	337.1	47.9	3.7 mi.	6.0 km.
240ø	341.9	43.1	3.5 mi.	5.7 km.
270ø	332.5	52.5	3.9 mi.	6.3 km.
300ø	324.2	60.8	4.3 mi.	6.9 km.
330ø	320.3	64.7	4.4 mi.	7.1 km.

**DISTANCE TO 34 dBu**

Compliance with 47 C.F.R. 74.1235, the 34 dBu not to exceed 60 km in any direction.

<u>øT</u>	<u>Height</u>	<u>HAAT</u>	<u>F(50,10)</u>	<u>60 dBu</u>
0ø	309.7	75.3	22.2 mi.	35.8 km.
30ø	310.4	74.6	22.1 mi.	35.6 km.
60ø	311.7	73.3	21.9 mi.	35.3 km.
90ø	309.1	75.9	22.3 mi.	35.9 km.
120ø	317.7	67.3	21.0 mi.	33.8 km.
150ø	316.7	68.3	21.2 mi.	34.0 km.
180ø	333.0	52.0	18.6 mi.	29.9 km.
210ø	337.1	47.9	17.9 mi.	28.8 km.
240ø	341.9	43.1	17.1 mi.	27.5 km.
270ø	332.5	52.5	18.6 mi.	30.0 km.
300ø	324.2	60.8	20.0 mi.	32.1 km.
330ø	320.3	64.7	20.6 mi.	33.1 km.

Terrain averaging study with HAAT in meters at N. 40 4 17, W. 84 37 51.

Average terrain height: 1056.5 feet, or 322.0 meters.

HAAT, based on 12 radials, with an Antenna radiation center equal to 1263.1 feet, or **385.0** meters AMSL, is 206.6 feet, or **63.0** meters.

**Within 60 dBu - CHANNEL 279 @ 0.050 KILOWATTS**

AREA SERVED: 145.7 sq. km.

POPULATION: 18,004