

APPLICATION FOR STATION LICENSE
CUMULUS LICENSING LLC
WWWW-FM RADIO STATION
CH 275B - 102.9 MHZ - 50.0 KW (DA)
ANN ARBOR, MICHIGAN
April 2011

TECHNICAL STATEMENT

This Technical Statement was prepared on behalf of Cumulus Licensing LLC ("Cumulus"), licensee of radio station WWWW-FM, Channel 275B, Ann Arbor, Michigan. Cumulus holds an outstanding permit to make minor changes in the facilities of WWWW-FM (BPH-20100803AAE). Cumulus herein submits a license application to cover the outstanding permit. A calculation of the transmitter power output of the WWWW-FM transmitter is attached as Exhibit A. Upon the submission of this application, Cumulus will commence limited Program Test operations with WWWW-FM at 50% power.¹ It is respectfully requested that the Commission's staff review this instant application for license and allow Cumulus to operate with full power.

There are five conditions/restrictions on the WWWW-FM permit. Conditions #1 through #4 relate to the directional antenna system for WWWW-FM. WWWW-FM will operate with an Electronics Research, Inc. ("ERI"), directional antenna system. Attached as Exhibit B is a Directional Antenna Proof of Performance for the WWWW-FM antenna from ERI. Condition #4 states at a bearing of 60° True that the power must not exceed 14.58 kilowatts²; at a bearing of 220° True that the power must not exceed 40.0 kilowatts; at a bearing of 300° True that the power must not exceed 32.0 kilowatts; and at a bearing of 340° True that the field strength must

1) Pursuant to §73.1620(2).

2) The authorized relative field maximum of the 60° azimuth is 0.540. This field equates to a maximum power of 14.58 kilowatts, rather than the value indicated on the permit.

not exceed 48.0 kilowatts. As indicated in Exhibit B, Figure #2, the WWWW-FM directional antenna proof from ERI, the relative field of the envelope pattern at 60° is 0.532 (horizontal), a power level of 14.13 kilowatts and 0.539 (vertical), a power level of 14.55 kilowatts; at 220° the relative field is 0.874 (horizontal), a power level of 38.24 kilowatts and 0.880 (vertical), a power level of 38.68 kilowatts; the relative field at 300° is 0.795 (horizontal), a power level of 31.61 kilowatts and 0.797 (vertical), a power level of 31.80 kilowatts and the relative field at 340° is 0.884 (horizontal), a power level of 39.05 kilowatts and 0.839 (vertical), a power level of 35.22 kilowatts. At all of the restricted azimuths, it is believed the power level is below the maximum values.

Attached as Exhibit C is a statement from surveyor licensed in the state of Michigan attesting to the azimuth of the installed antenna indicating the antenna is oriented at 243° True, which is in agreement with the orientation indicated in the ERI report. Attached as Exhibit D is a statement from an engineer indicating the antenna system was assembled and installed in accordance with the manufacturer's instructions.

The fifth and final condition states that Cumulus will reduce the power of WWWW-FM, or cease operation in coordination with other users of the tower, to protect persons having access to the site from radio frequency electromagnetic fields in excess of FCC guidelines. Cumulus will comply with this condition.

Based on the foregoing, it is believed that WWWW-FM is in compliance with the Commission's rules and that all conditions have been met.