

## **Technical Narrative**

**August 26, 2017**

This Technical Statement and attached exhibits were prepared on behalf of JMRW, LLC (“JMRW”), licensee of station WQUD, Channel 288A (105.5 MHz), Facility ID No. 166073, Erie, Illinois. JMRW herein proposes to modify WQUD construction permit BPH-20170407AAW to change the transmit location. The proposed WQUD facility would continue to specify operation on Channel 299A (107.7 MHz) and continue to be licensed to Erie, Illinois. The proposal is described in its entirety for the convenience of the FCC staff but the actual requests are made by the application itself.

JMRW is proposing to implement this change at an existing communications site. The tower is 121.0 meters in overall height tower is registered with FCC Antenna Structure Registration No. 1204997. The proposed WQUD application site is located at 41° 28’ 47" North Latitude 90° 16’ 08” West Longitude (NAD 27). WQUD would operate with 6.0 kW ERP at 116 meters above ground level and 97 meters HAAT. This modification is also compliant with all the requirements of 47CFR §73.207 and 47CFR §73.315. The FCC F(50,50) 70 dBu contour from the proposed WQUD application site does not cover 80% of the Erie, Illinois corporate boundaries. Therefore a Supplemental Showing using the Longley-Rice signal strength methodology is included to demonstrate compliance with Section 73.315.

The proposed WQUD Channel 299A facility would serve within the FCC F(50,50) 60 dBu protected contour an area of 2,454.9 sq. km. and 281,977 persons