

Affidavit of Field Engineer

WSPB-FM

I hereby certify and attest that I am a qualified Broadcast Engineer, Certified by the Society of Broadcast Engineers as a Professional Broadcast Engineer with over 50 years of certified and qualified experience. SBE Certification No. 50077.

Further, I hold FCC License No. PG-19-5774, with the initial 3rd. Class Radiotelephone License with Broadcast Endorsement dated 12 September 1962.

I have been actively engaged in Broadcast Engineering during the entire time period above. I have testified as an Engineering witness before the FCC and the Michigan Aeronautical Commission. I have prepared numerous Filings before the FCC and the FAA and I am certified to perform the FCC's "Alternate Broadcast Inspection Program" in all 50 States.

The directional antenna described herein is located on structure ASR-1213717. The Proof of Performance for Shively Labs antenna model 6025-(1)(2)-DA, project 59451, was reviewed by myself and I confirm that the procedure and installation details were followed precisely. The antenna assembly is in place and oriented as required to meet the parameters of Construction Permit No. BPED-20140122AGR. Further, the Antenna Orientation Certificate provided by Wightman & Associates, Inc. and attached elsewhere in this filing details the procedure for confirming azimuth, elevation and tilt of the DA structure. The transmission line consists of 232 feet (70.7M) of Andrew type AVA7-50 terminated at each end with a 1-5/8 inch EIA flange connector. This delivery system yields an efficiency of 90.5%. Coupled with the antenna power gain of 3.883 and an ERP of 4.5 kW, this yields a TPO of 1.281 kW at 89.7 MHz.

The transmission system is in place and ready for full operation upon FCC authorization.

Under penalty of perjury, I confirm the above statements are true and accurate to the best of my knowledge and belief.

Signed: Michael E. Bradford Date: 5-15-2014
Michael E. Bradford, CPBE