

WNJR
Washington, Pennsylvania
Washington and Jefferson College

License to Cover Construction Permit
File No. BPED-20190827AAR

Compliance with Special Operating Conditions or Restrictions

The construction permit for this facility includes eight (8) special operating conditions or restrictions. This Exhibit demonstrated compliance with all conditions.

1. Washington and Jefferson College, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of the FCC guidelines.
2. The installed antenna is an EPA Type 2 (opposed V Dipole) antenna, SWR Model FMECR/1-PLUS-DA, as specified.
3. A certification by a licensed surveyor is attached as a separate exhibit.
4. A certification from the engineer who oversaw the installation is attached as a separate exhibit.
5. A proof-of-performance from the antenna manufacturer is attached as a separate exhibit.
6. Figure 1 of this exhibit shows the authorized community contour from 47 C.F.R. §73.515 and the measured directional antenna community contour. The principal community of Washington, Pennsylvania, is shown. The measured antenna principal community contour provides 100% coverage of the principal community.
7. The RMS of the composite relative field horizontal plane directional antenna pattern encompasses 91.9% of the authorized pattern, as documented in Exhibit 6 of the SWR proof-of-performance.
8. The horizontally and vertically polarized components of the measured antenna do not exceed the authorized composite relative field at any azimuth. At the specified minimum from 100 to 110 degrees (clockwise), the maximum relative field is 0.278 for an effective radiated power of 31 Watts, which is less than the specified 36 Watts (0.036 kilowatts).

Declaration

I declare, under penalty of perjury, that I am a technical consultant to broadcasting and other communications systems, that I have over twenty-five years of experience in the engineering of broadcast and other communications systems, that I am familiar with the Federal Communications Commission's Rules found in the Code of Federal Regulations Title 47, that I am a Professional Engineer registered in North Carolina, that I have prepared or supervised the preparation of the attached Special Operating Conditions Exhibit, for Washington and Jefferson College, and that all of the facts therein, except for facts of which the Federal Communications Commission may take official notice, are true to the best of my knowledge and belief.



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