

Compliance with Special Operating Conditions

The KVKL Construction Permit (File Number BMXPED-20170602ABC) contains several Special Operating Conditions summarized as follows:

1. BEFORE PROGRAM TESTS ARE AUTHORIZED, the permittee must submit the results of a complete proof-of-performance to establish the horizontal plane radiation patterns for both the horizontally and vertically polarized radiation components. This proof-of-performance may be accomplished using the complete full size antenna, or individual bays therefrom, mounted on a supporting structure of identical dimensions and configuration as the proposed structure, including all braces, ladders, conduits, coaxial lines, and other appurtenances; or using a carefully manufactured scale model of the entire antenna, or individual bays therefrom, mounted on an equally scaled model of the proposed supporting structure, including all appurtenances. Engineering exhibits must include a description of the antenna testing facilities and equipment employed, including appropriate photographs or sketches and a description of the testing procedures, including scale factor, measurements frequency, and equipment calibration.
2. BEFORE PROGRAM TESTS ARE AUTHORIZED, the permittee must submit a certification executed by a licensed surveyor showing that the FM directional antenna system has been oriented at the azimuth(s) specified in the directional antenna proof of performance. This certification must include a description of the method used by the surveyor to determine the azimuth(s) of the installed directional antenna system and the accuracy of that determination.
3. BEFORE PROGRAM TESTS ARE AUTHORIZED, the permittee must submit an affidavit that the installation of the directional antenna system was overseen by a qualified engineer. This affidavit must include a certification by the engineer that the antenna was installed pursuant to the manufacturer's instructions and list the qualifications of the certifying engineer.
4. The relative field strength of neither the measured horizontally nor vertically polarized radiation component shall exceed at any azimuth the value indicated on the composite radiation pattern authorized by this construction permit.
5. A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power: .23 kilowatt
Principal minima and their associated field strength limits: 60 degrees True through 200 degrees True: 0.0074 kilowatt
6. The permittee/licensee, in coordination with other users of the site, must 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.

Southern Nevada Educational Broadcasters complies with or agrees to, these conditions as follows:

1. The Antenna Proof Of Performance is Exhibit 9-A
2. The Surveyor Certification is exhibit 9-B
3. The Installing Engineer Certification is Exhibit 9-C.
4. The relative field strength of all azimuths is shown in the Proof of Performance Exhibit 9-A. Note that at no point does the measured pattern field exceed the composite pattern field.
5. Warning Signs have been installed at appropriate intervals and access is restricted at this site. Documentation supporting this statement is seen in Exhibit 9-D.
6. Southern Nevada Educational Broadcasters, in coordination with other users of the site, agrees to 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 FCC guidelines.