

**K270BZ Phoenix, AZ**  
**LMS Construction Permit No. 0000215206**  
**Transmitter Power Output**  
**&**  
**Special Operating Conditions or Restrictions**

**Transmitter Power Output (TPO)**

The Nicom BKG77 two bay  $\frac{3}{4}$  (0.75) wave spaced circularly polarized directional antenna has a power gain of 0.94.

The 189 ft. of AAT-78-FC  $\frac{7}{8}$  inch foam coaxial cable has a loss of 0.656 dB.

The 26 ft. of AAT-12-FC  $\frac{1}{2}$  inch foam coaxial cable has a loss of 0.172 dB.

The Shively Model 2916-3 three pole band pass cavity filter has an insertion loss of 0.61 dB.

The total loss of the transmission line and filter is 1.438 dB which results in a line efficiency of percent 71.81

$220 \text{ watts ERP} \div 0.94 \text{ antenna gain} \div 0.7181 \text{ line loss} = 325.9 \text{ (326 watts) TPO}$

**Special Operating Conditions or Restrictions**

The permittee/licensee 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.