

**APPLICATION FOR STATION LICENSE**  
**LAWRENCE F. LOESCH**  
**W56EC LPTV TELEVISION STATION**  
**CH 56Z - 11.5 KW**  
**MANTEO, NORTH CAROLINA**  
**June 2005**

**TECHNICAL STATEMENT**

This Technical Statement was prepared on behalf of Lawrence F. Loesch ("Loesch"), permittee of a new LPTV television station W56EC, Channel 56Z, Manteo, North Carolina (BNPTTL-20000811AAF). This instant application seeks a license to cover the outstanding permit. Attached, as Exhibit A, is a calculation of the transmitter output power for the W56EC transmitter.

It is noted in the original application for construction permit that Loesch specified an Andrew ALP series non-directional antenna system for the LPTV station. It was determined that the weight of the antenna was too excessive for the tower on which the antenna was to be installed. Therefore, Loesch is utilizing a RF Technologies Corporation non-directional antenna system, Model LP-1900-12-WB-56. The amount of beam tilt of the RF Technologies antenna,  $-0.50^{\circ}$ , is the same as the Andrew. The effective radiated power remains unchanged at 11.5 kilowatts in the main antenna beam. Additionally, Loesch has utilized 7/8" transmission line, in lieu of the 1 1/4" line indicated in the application for construction permit. No other substitutions were made.

There were three special operating condition/restriction listed on the W56EC permit. The first relates to the use of a transmitter with a visual carrier tolerance of plus or minus 1.0 kHz. The W56EC transmitter has the required tolerance. The second condition notes that W56EC is a secondary service and must not cause interference to the reception of existing, or future, full service television stations and must accept interference from these facilities. Loesch acknowledges this requirement. The final condition notes that W56EC is entitled to displacement relief to eliminate or avoid interference conflicts. Loesch acknowledges this requirement.

Finally, Loesch also notes he will, in cooperation with other tower users, reduce the power of W56EC or cease operation, as necessary, to insure that persons having access to the tower will not be exposed to radio frequency electromagnetic fields in excess of the FCC's guidelines. Based on the foregoing, it is believed that all conditions on the W56EC permit have been satisfied.