



## **MEDIA SYSTEMS**

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R & L Media Systems, Inc. of Hendersonville, Tennessee, is a broadcast manufacturing and consulting company. We wish to begin manufacturing a line of antennas for the FM broadcast band in the United States and abroad. We need an experimental license to test a new design of antennas that will reduce the cost of directional antennas for the Non-Commercial Educational FM, FM translator and FM Booster market. Data derived from this experimentation will be used to calculate antenna system gains and performance in a real world situation, as well as assuring compliance with FCC rules and regulations.

Our latest antenna design is based on a standard, low-cost circular polarized antenna with reflector elements placed behind it to create various directional patterns. We feel this will allow NCE, FM translator, and FM boosters to make more efficient use of directional patterns and the surrounding spectrum they use. Current circular polarized yagi arrays are too expensive for non-commercial stations and translator budget.

All equipment used, other than the antennas, will be FCC certified and will not cause interference.

The experimental license should cover all types of polarization.

Our site is located 7.6 miles from the closest airport and no interference to other services is expected. We understand should such interference ever occur, we would cease operation immediately upon notification. We will on a weekly basis do a search of the FM band to insure we will not be causing interference to both existing and future stations and applications.