

The attached request for Experimental FCC License is for a small X-band Doppler radar. The radar parts were originally built by XonTech, Inc. Picture is attached as another file. The first license was:

File Number 0019-EX-ML-2003 and Call Sign was WC2XKA

XonTech, Inc., was purchased by Northrup Grumman. A subsequent license was:

File Number 0003-EX-TC-2003 with Call Sign unchanged.

Both the above licenses have expired.

ARES Corporation has obtained the rights to the only unit built, and intends to promote the low power radar for security surveillance applications. ARES will further engineering/manufacturing development of this radar. This initial license application is to enable demonstrations in controlled surveillance areas for marketing purposes.

Specifications of the radar (verified with a traceable spectrum analyzer) include:

9.25 GHz X-Band
0.002% frequency drift
1 W peak power/pulse
50-250 nanosecond pulses @ 32 kHz pulse rate
Mean power is less than 8 mW max

Transmit/receive antenna is a 12" dish.