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Federal Communications Commission
Office of Engineering & Technology
Experimental License Branch
Washington, DC 24501

Re: 0044-EX-ML-2003

You will find below the required and requested description and clarification of the proposed modification for the Experimental Radio Station Authorization KF2XDV.

The system in question is currently a 35 GHz Data collection radar with a 1 watt transmitter and 33 dB antenna, which yields an EIRP of about 2000 watts. I am currently modifying the system to operate at 93 to 95 GHz. To this end, we have purchased a 1200-watt W-Band transmitter, and a 38 dB antenna. EIRP will be close to but not exceed the 10 MW requested. I expect these improvements to be complete by year end.

This system is used to collect signature data on various military targets, and radar imagery on various outdoor scenes of interest. It uses a variety of frequency agile phase modulated waveforms over the operating band indicated. The system is mounted in a vehicle and is used at various locations typically owned by either Lockheed Martin or the United States government.

If you have any further requirements or explanation of the activities, please feel free to contact the program engineer, Albert Paragrande.

Very Truly Yours,

Claude E. Wells
Corporate
Tech. Support Analyst