



December 9, 2008

Marlene H. Dortch, Secretary  
Federal Communications Commission  
Office of the Secretary  
445 12th Street, SW  
Washington, DC 20554

Re: Section 5.77 Notification  
Experimental Radio Station WC2XRP

Dear Ms. Dortch:

Pursuant to Section 5.77 of the Commission's rules, Lockheed Martin Corporation ("Lockheed Martin"), licensee of Experimental Radio Station WC2XRP, hereby notifies the Commission that it is implementing certain permissive minor changes to its authorized experimental operations for a limited period of time. As described below, these operations will be entirely consistent with the terms and conditions of its existing license authority, and will not result in any operations exceeding its currently authorized emissions envelope. Moreover, these changes will not involve increasing or decreasing the height of existing antennas, nor will they result in the relocation of any antenna structures. These changes are to facilitate the testing of prototype technology being developed under the existing contract for the U.S. Marine Corps, and is thus consistent with the public interest, convenience and necessity.

As referenced in our initial license and as background here, Lockheed Martin utilizes the subject experimental license to support testing under current contracts with the U.S. Marine Corp. One of the existing USMC contracts (M67854-00-C-2008) was recently amended to include testing of prototype technologies for the U.S. Marine Corps. Now, in order to field test certain prototype equipment developed thus far, Lockheed Martin hereby reports that it is implementing a number of minor, permissive changes to its experimental authority for testing scheduled to begin on December 10, 2008. Specifically, Lockheed Martin intends to perform experimental digital operations in the 1264-1286 MHz and 1353-1392 MHz bands at its Cazenovia site (at which site Lockheed Martin is authorized to conduct experimental operations in these bands).

As an integral part of this experiment, Lockheed Martin intends to test a Direct Digital Synthesizer (DDS) modulator that is anticipated to replace the TPS59 analog modulator. As a result, Lockheed intends to utilize less bandwidth per signal (10 MHz) and less power (20 MW) than it is currently authorized to use (12 MHz and 240 MW, respectfully). Lockheed Martin hopes that the testing data derived from these experiments will improve the accuracy and efficiency of current radar designs used in support of national defense, which would be entirely consistent with the public interest, convenience and necessity.

Please contact the undersigned with any comments or questions regarding this notification.

Regards,

A handwritten signature in cursive script, reading "Giselle Creeser".

Giselle Creeser  
Director,  
Government & Regulatory Affairs  
703-413-6983 (tel)