

Description of Proposal – Amended Application

This amendment to the Experimental Radio Service station¹ is being submitted to expand the frequency of operations for the study to include the S-Band (3,050 MHz) frequency of operation and additional equipment. The original application was for X-band (9,410 MHz) use only.

The technical parameters in this amendment are identical those pertinent to the area of operation as identical equipment is being used at all places. As discussed in the original submissions to the Commission, the applicant is continuing to utilize commercially available consumer grade RADAR units. These units do not require a license for operation on waterways, but their use on land requires special authorization from the Commission. It should be noted that many of these units are in use by nautical craft operators throughout the United States with no adverse effects.

A separate request for expedited processing is attached describing the critical nature of this project. It is of course, respectfully submitted that the Commission process this modification request in an expedited fashion due to the life-safety, property, and environmentally related issues pertinent to this project.

The proposed research will add the deployment of JRC JPL-600ER3-12 marine Radar units with a NKE-600CIT 12 foot antenna. The units pulse width and pulse duration is shown in Table 1. These units are authorized by the Commission² for use on navigable waterways, but currently are not approved for use in land based applications. This application seeks an authorization for these units to be utilized at various land based locations during the period of research. Since the units

¹ File number is 0083-EX-ML-2008.

² FCC ID CKEJMA-9300

are currently approved for use on navigable waterways and are commercially available, they are not considered experimental in nature. This particular application of their use, however, is how the experimental nature becomes relevant. The JRC JPL-600ER3-12 is not capable of station identification pursuant to Section 5.115 of the Commission's Rules.

Pulse Width and Duration - Table 1

Range	Short	Middle	Long
0.125 nm	0.07 μ s / 1,900 Hz		
0.25 nm	0.07 μ s / 1,900 Hz		
0.5 nm	0.07 μ s / 1,900 Hz		
0.75 nm	0.07 μ s / 1,900 Hz	0.2 μ s / 1,900 Hz	
1.5 nm	0.07 μ s / 1,900 Hz	0.2 μ s / 1,900 Hz	0.3 μ s / 1,900 Hz
3 nm	0.2 μ s / 1,900 Hz	0.3 μ s / 1,900 Hz	0.6 μ s / 1,100 Hz
6 nm	0.3 μ s / 1,900 Hz	0.6 μ s / 1,100 Hz	1.2 μ s / 570 Hz
12 nm	0.3 μ s / 1,900 Hz	0.6 μ s / 1,100 Hz	1.2 μ s / 570 Hz
24 nm			1.2 μ s / 570 Hz
48 nm			1.2 μ s / 570 Hz
96 nm			1.2 μ s / 570 Hz

Affidavit

The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my belief and knowledge.



Above signature is digitized copy of actual signature

Keith Turcot
May 4, 2010