

From: Amaral, Gary @ RAND [Gary.Amaral@L-3com.com]
Sent: Friday, November 04, 2005 1:33 PM
To: 'Nico.Nguyen@faa.gov'
Cc: John Kennedy
Subject: Required information

Mr. Nguyen

The FCC requested I send you the following data for Aeronautical Study No. 2005-AWP-3874-OE. The request was made for the purpose of speeding up the process through the FCC. Please file with the above listed Aeronautical Study.

<<FCC File # 0307-EX-PL-2005 Reference Number 3972.rtf>>

Thank You
Gary Amaral
L3 communications / Randtron Systems
130 Constitution Dr.
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1. Please submit a justification for a five-year experimental license (five years (60 months) is the maximum length of time that an experimental license may be granted). [Please file for the standard 2 years.](#)

2. If you have not already done so, please report the following to the FAA Western Pacific Regional Office for frequencies 1010 MHz, 1030 MHz, 1060 MHz and 1090 MHz (if possible, please obtain and report the FAA Regional Office's NGT numbers for this coordination in your response to this correspondence):

- peak envelope power (PEP); [0dBm](#)
- type of antenna; [Parabolic](#)
- transmit antenna gain; [18dB](#)
- elevation above sea level of the antenna site; [274.3m](#)
- height above ground of the focal point of the antenna; [7.6m](#)
- antenna polarization; [Vertical](#)
- the azimuth that the antenna is pointed or appropriate designator to indicate whether the antenna is rotating, non-directional, etc.; [Non rotating \(Fixed position\)](#)
- pulse repetition rate (PRR) that the equipment is capable of operating on to include PRR stagger sequences if appropriate, whether the PRR is adjustable and what PRR's the equipment can accept, and any other information that would be helpful in understanding the pulse characteristics of the equipment; [transmission, CW](#)
- pulse width; [N/A](#)
- equipment nomenclatures; [Hewlett Packard 83623A Synth.](#)
- whether the equipment is capable of blanking transmissions in certain azimuths and any limitations with respect to blanking; [N/A](#)
- radius of operations if appropriate; [N/A](#)
- detailed description of the proposed operation to include any technical parameters that will be altered during operations. [The equipment license is required to operate an antenna test range for evaluation and tuning of antennas for use by various government agencies.](#)
- will interrogations (transmissions) be made on 1090 MHz as well as 1030 MHz (airborne transponders typically only transmit on 1090 MHz and receive on 1030 MHz)? [N/A](#)
- if transmissions will be made on 1030 MHz, in what modes of operation will the transmitter operate (Modes 1, 2, 3A, 3C, 4, 5, Mode-S)? Is this a TCAS and is TCAS the only reason why the 1030 MHz transmissions are needed (airborne Mode 4 and/or 5 operations will be very difficult if not impossible to authorize and airborne Mode-S is not authorized)? [N/A](#)
- to whom is this product being sold (is this confined to overseas customers or US customers)? [US customers \(various military agencies\)](#)
- does the waveform meet all of the required ICAO Annex 10 requirements and appropriate RTCA Document? [N/A](#)

1010 Mhz # NGT 050306
1025 Mhz # NGT 050307
1030 Mhz # NGT 0503010
1060 Mhz # NGT 050308
1090 Mhz # NGT 050311
1095 Mhz # NGT 050309

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