"Amendment 301 & 306 5705

U.S Department
of Transportation
**Federal Aviation
Administration**

Western-Pacific Region
Airports Division

P.O. Box 92007
Los Angeles, CA 90009

2004 NOV 18 PM 1:41

November 15, 2004

Intissar Durham
Chief Airports Engineer
Los Angeles World Airports
One World Way
Los Angeles, CA 90045

Dear Ms. Durham:

Los Angeles International Airport
Proposed Radio Frequency Ground Testing
Airspace Case No: 2004-AWP-762-NRA

The Federal Aviation Administration (FAA) has completed an airspace study from an airspace utilization standpoint of the subject project at Los Angeles International Airport. The airspace study was based upon the information received from Raytheon Multi-Program Testbed, on October 22, 2004, which included FAA Form 7460-1, *Notice of Proposed Construction or Alteration*.

The ground based aircraft used for transmitting and testing radio frequencies will be located approximately 1,446 feet west from Runway 7L threshold and 2,319 feet north from Runway 25R/7L centerline.

Based upon the information submitted, the following conditions are part of this determination:

a. In the event of any interference to FAA facilities, due to proponent's operation, the proponent is required to take immediate action to resolve the interference, including ceasing of operations if necessary.

b. The frequencies are temporarily approved for a period of two years from the date of this determination within the band that are primarily used for aviation, otherwise band must be coordinated with the Federal Communications Commission (FCC) for concurrence. Receiving requires no coordination.

Band (MHz)	Approved Transmit Frequency (MHz)
1025-1150	1051
118-136	136.025
225-399.5	256.875
1525-1660	Avoid GPS Transmission and subject to shared band coordination with FCC
960-1540	1051
969-1218	1051
4200-4400	Share band requires FCC coordination
960-1220	1051
~~(14650-14800)~~	~~14756~~
15180-15300	*15266.25

Neal.CTR.Swem@faa.gov
05/10/2005 10:24 AM

To Sydney.Bradfield@faa.gov, tmcline@raytheon.com
cc John.Hepsen@faa.gov, Mario.CTR.Jimenez@faa.gov, Mickey.Martinez@faa.gov, Nico.Nguyen@faa.gov, Phuong.Duong@faa.gov, Rene.Balanga@faa.gov,
bcc
Subject Re: Info: 2004-AWP-762-NRA/FAA Coordination for Raytheon FCC License

Sydney & Thelma,

Please correct the following to read:

NG T050136 14626.25 MHz
NG T050137 15266.25 MHz

These are paired assignments.

Sydney, I have corrected the records, and sent forward.

Neal K Swem
Sr. Comm/Spectrum & Graphics Eng.
AWP Spectrum Engineering Services
Operations Engineering Section,
WSA-471.20/NISC-II/FAA
310.725.3672
DSN:958.3672

Sydney Bradfield/AWP/FAA
05/04/2005 07:28 PM

To Sydney Bradfield/AWP/FAA@FAA
cc John Hepsen/AWP/FAA@FAA, Mario CTR Jimenez/AWA/CNTR/FAA@FAA, Mickey Martinez/AWP/FAA@FAA, Neal CTR Swem/AWP/CNTR/FAA@FAA, Nico Nguyen/AWP/FAA@FAA, Phuong Duong/AWP/FAA@FAA, Rene Balanga/AWA/FAA@FAA, Timothy J Pawlowitz/AWA/FAA@FAA, Vincent Q Nguyen/AWP/FAA@FAA
Subject Info: 2004-AWP-762-NRA/FAA Coordination for Raytheon FCC License Link

Background FYI.

Sydney

Sydney Bradfield/AWP/FAA

05/04/2005 07:23 PM

To tmcline@raytheon.com

cc Nico Nguyen/AWP/FAA@FAA, Vincent Q Nguyen/AWP/FAA@FAA, Neal CTR Swem/AWP/CNTR/FAA@FAA, Phuong Duong/AWP/FAA@FAA, Rene Balanga/AWA/FAA@FAA, Mario CTR Jimenez/AWA/CNTR/FAA@FAA, Timothy J Pawlowitz/AWA/FAA@FAA, Mickey Martinez/AWP/FAA@FAA, John Hepsen/AWP/FAA@FAA

Subject 2004-AWP-762-NRA/FAA Coordination for Raytheon FCC License

Thelma,

Per our followup conversation today to complete the resolution coordinated with Neal yesterday, to obtain the necessary FCC License, below are our coordination numbers for the frequencies previously approved in the subject Obstruction Evaluation for Raytheon ground only testing with a B727 aircraft at LAX.

NG T050133	136.025 MHz
NG T050134	256.875 MHz
NG T050132	1051.00 MHz
NG T050136	14756.0 MHz
NG T050137	15266.25 MHz

Apparently from our conversation, the understandable confusion arose regarding the need for FCC licensing because the OE determination went directly to the Raytheon Program Office not familiar with the policy that private organization transmissions require FCC Licensing separately from approval of frequencies and your Raytheon Frequency Group aware of FCC Licensing requirements was unfortunately not coordinated with by your Program Office (also the language used in our OE determination could be miscontrued by an unknowledgeable party as in this case to imply authorization for the testing). As we discussed, to avoid this occurence in the future, we will take steps to always add a condition to require FCC licensing in the event the proponent is not familiar with the process and to coordinate with you also in the Frequency Office on any Raytheon applications.

Per our Headquarters recommendations in our Telcon today which we did not have an opportunity to discuss, for similar future testing proposals in the Air to Ground Bands 118-137 and 225-400 MHz, as you may already be aware in your office, AFTRCC (www.AFTRCC.org), ARINC, and FCC Rules Part 87 may be more appropriate options to consider for those particular frequency resources.

By the way, to make sure our assignments are as accurate as possible, could you provide for the above frequencies the following information: Power, emission, and transmitter/receiver/antenna equipment .

Please let us know if we can be of further assistance in this process and thank you for your cooperation.

Sydney Bradfield