

Amendment

301 8306 5705



U.S. Department
of Transportation

Federal Aviation
Administration

Western Pacific Region
Airports Division

P.O. Box 82007
Los Angeles, CA 90009

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 2,315 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 ✓
118-138 ✓	136.025
225-399.5	256.875
1525-1860	Avoid GPS Transmission and subject to shared band coordination with FCC
960-1540	1051
969-1215	1051
4200-4400	Share band requires FCC coordination
360-1220	1051
14650-14800	14756 ✓
15180-15300	*15266.25 ✓

14 626.25
15 266.25

To 50136

US gov.
Contact Satel
what Satel
will be u
meet FCC
part 15 P

L1, L2, L3, L

123 to 575

225-402

15.18-15.3
123-575
123-125-
252



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/F
AA

05/04/2005 07:28
PM

To Sydney Bradfield/AWP/FAA@FAA
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,
cc 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: tmcilne@raytheon.com

Nico Nguyen/AWP/FAA@FAA, Vincent Q Nguyen/AWP/FAA@FAA, Neal CTR
Swern/AWP/CNTR/FAA@FAA, Phuong Duong/AWP/FAA@FAA, Rene Balanga/AWA/FAA@FAA, Mario
CC 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 misconstrued by an unknowledgeable party as in this case to imply authorization for the testing). As we discussed, to avoid this occurrence 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