



Federal Aviation Administration
Western Pacific Regional Office
PO Box 92007-AWP-520
Los Angeles, CA 90009-2007

Aeronautical Study No.
2005-AWP-3874-OE
Prior Study No.
2003-AWP-3705-OE

Issued Date: 10/21/2005

GARY AMARA L
L3 COMMUNICATIONS RANDTRON SYSTEMS
130 CONSTITUTION DRIVE
MENLO PARK, CA 94025

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has completed an aeronautical study under the provisions of 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure Type: U.S. AIR FORCE ANTENNA INSTALLATION
Location: HALFMOON BAY, CA
Latitude: 37-30-54.77 NAD 83
Longitude: 122-22-44.9
Heights: 40 feet above ground level (AGL)
1055 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

To coordinate frequency activation and verify that no interference is caused to FAA facilities, prior to beginning any transmission from the site you must contact FREQUENCY MANAGEMENT @ 310 725-3669.

See attachment for additional condition(s) or information.

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking and/or lighting are accomplished on a voluntary basis, we recommend it be installed and maintained in accordance with FAA Advisory Circular 70/7460-1 70/7460-1K.

This determination expires on 04/21/2007 unless:

- (a) extended, revised or terminated by the issuing office.
- (b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission if the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (310)725-6557. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2005-AWP-3874-OE.

Signature Control No: 429578-412871

(DNE)

Karen L. McDonald
Specialist

Attachment(s)
Additional Information
Frequency Data
Map

Additional Information for ASN 2005-AWP-3874-OE

THE FOLLOWING PROVISION FROM FAA FREQUENCY MANAGEMENT MUST BE MET:

FREQUENCIES;

1010.0 MHZ WITH COORDINATION # NG T050306
1025.0 MHZ WITH COORDINATION # NG T050307
1030.0 MHZ WITH COORDINATION # NG T0503010
1060.0 MHZ WITH COORDINATION # NG T050308
1090.0 MHZ WITH COORDINATION # NG T050311
1095.0 MHZ WITH COORDINATION # NG T050309,

SHALL BE USED WITH AUTHORIZED POWER OF 0.5 WATT (ERP).

THE ASSIGNMENTS ARE AUTHORIZED WITH THE CONDITION THAT THE VERTICAL BEAM WIDTH TOP EDGE DOES NOT EXTEND ABOVE THE DOME OF THE RECEIVING STATION.

THE FREQUENCY 1110 MHZ SHALL NOT BE USED DUE TO POTENTIAL OF INTERFERENCE TO FAA FACILITY CRITICAL TO AVIATION SAFETY.

ONLY FREQUENCIES 3150 MHZ AND 3450 MHZ WITH 1 WATT (ERP) SHALL BE USED WITHIN THE 3000 MHZ TO 3600 MHZ BAND.

THE BAND 3500 MHZ TO 3700 MHZ SHALL NOT BE USED DUE TO POTENTIAL OF INTERFERENCE TO FAA FACILITIES CRITICAL TO AVIATION SAFETY OPERATING IN THAT FREQUENCY BAND.

IF TRANSMISSIONS PRESENT INTERFERENCE TO FAA FACILITIES, PROPONENT WILL CEASE TRANSMISSIONS IMMEDIATELY UNTIL INTERFERENCE PROBLEM IS RESOLVED.

FCC LICENCE IS REQUIRED PRIOR TO OPERATION.

Frequency Data for ASN 2005-AWP-3874-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
1010		MHz	1	W
1025		MHz	1	W
1030		MHz	1	W
1060		MHz	1	W
1090		MHz	1	W
1095		MHz	1	W
1110		MHz	1	W
3000	3600	MHz	1	W

