

From: Sydney.Bradfield@faa.gov
Sent: Tuesday, July 18, 2006 7:42 PM
To: Center, Ronald E
Cc: John.M.Thompson@faa.gov; rodney.murphy@faa.gov; Calvin.Ngo@faa.gov;
Nathan.Wilson@faa.gov
Subject: RE: FW: FW: ANTENNA VSWR TEST, EL SEGUNDO, CA

Ron,

We have created **coordination assignment number NG T060382** for your temporary test from October 1 to December 31, 2006, subject to the revised parameters and conditions below.

If any further action or information is necessary, please feel free to contact me.

Sydney Bradfield
WSA Spectrum Engineering Services
Operations Engineering Section, AWP-471.2
310-725-3671, DSN 958-3671

"Center, Ronald E" <Ronald.E.Center@boeing.com>
07/17/2006 06:37 AM
To Sydney Bradfield/AWP/FAA@FAA
cc
Subject RE: FW: FW: ANTENNA VSWR TEST, EL SEGUNDO, CA

Sydney,

Thanks, we will comply with the conditions listed. I really appreciate your assistance.

Sincerely,
Ron

From: Sydney.Bradfield@faa.gov [mailto:Sydney.Bradfield@faa.gov]
Sent: Friday, July 14, 2006 5:51 PM
To: Center, Ronald E

Cc: rodney.murphy@faa.gov; Calvin.Ngo@faa.gov; Nico.Nguyen@faa.gov
Subject: RE: FW: FW: ANTENNA VSWR TEST, EL SEGUNDO, CA

Ron,

The lower power did help quite a bit with only LAX and Hawthorne airports within 3.8 miles (to -104 dBm) and more than likely only LAX affected as receive squelch levels according to the techs at LAX are set at 4 uV reducing the distance of concern to 1.4 nmiles (Hawthorne is approximately 3 nmiles away). Within the swept range of 245-275, there would only be 269.0 MHz possibly affected at LAX and at 1.3 nmiles to the receiver according to our database coordinates, the level received would be 4.11 uV just above squelch (see below). If you could further minimize power that would also be recommended but not mandatory.

After coordinating with the LAX OSC technicians, we would be able to concur under two conditions that (1) Boeing contact the LAX OSC technicians at 310-342-4934 upon activation to verify that no interference is caused and (2) provide a cease operation or stop buzzer number to call in the event of any interference with Boeing ceasing operations if any interference is caused.

If you can agree to theses conditions, we can provide a coordination number, pending coordination with Spectrum Engineering Services at Headquarters

Thanks,

Sydney Bradfield
WSA Spectrum Engineering Services
Operations Engineering Section, AWP-471.2
310-725-3671, DSN 958-3671

"Center, Ronald E" <Ronald.E.Center@boeing.com>
07/14/2006 08:49 AM

To Sydney Bradfield/AWP/FAA@FAA
cc

Subject RE: FW: FW: ANTENNA VSWR TEST, EL SEGUNDO, CA

Sydney,

Have you had an opportunity to complete your review of this test proposal. Thanks.

Sincerely,
Ron

From: Sydney.Bradfield@faa.gov [mailto:Sydney.Bradfield@faa.gov]
Sent: Friday, July 07, 2006 8:33 PM
To: Center, Ronald E
Cc: Sydney.Bradfield@faa.gov; Calvin.Ngo@faa.gov; Phuong.Duong@faa.gov;
John.Hepsen@faa.gov
Subject: Re: FW: FW: ANTENNA VSWR TEST, EL SEGUNDO, CA

Ron,

With your revised parameters, the affected area is significantly reduced to 3.8 nmiles to a ground receiver facility and 2.1nmiles (12,760 feet) to an aircraft so we will perform a search of ground facilities to that distance using 245-275 MHz which will probably include LAX and aircraft in a service volume that would intersect the -104 dBm contour.

We'll get back to you Monday on what frequencies would be impacted and what further conditions on parameters and testing periods may be warranted to insure no adverse impact.

Thanks,

Sydney Bradfield
WSA Spectrum Engineering Services
Operations Engineering Section, AWP-471.2
310-725-3671, DSN 958-3671

"Center, Ronald E" <Ronald.E.Center@boeing.com>
07/07/2006 09:27 AM

To Sydney Bradfield/AWP/FAA@FAA
cc Rodney Murphy/AWA/FAA@FAA
Subject FW: FW: ANTENNA VSWR TEST, EL SEGUNDO, CA

Sydney,

I was wondering if you had an opportunity to consider this revised proposal. Thanks.

Sincerely,
Ron Center

From: Center, Ronald E
Sent: Tuesday, June 27, 2006 2:17 PM
To: 'Sydney.Bradfield@faa.gov'
Cc: rodney.murphy@faa.gov
Subject: FW: FW: ANTENNA VSWR TEST, EL SEGUNDO, CA

Sydney,

I went back to our test engineers and received an alternative proposal. To make a long story short, we would still like to conduct an outdoor test, but with significantly reduced EIRP. We can achieve our test objective with an EIRP of -6 dBm, a peak emission of only 0.251 mW. All other test criteria would remain the same. The modified test description document is attached. We believe that we can accomplish this test without impacting any other operations. Thank you for your consideration.

Sincerely,
Ron

----- Forwarded by Sydney Bradfield/AWP/FAA on 07/07/2006 08:09 PM ----- Sydney
Bradfield/AWP/FAA
06/26/2006 07:40 PM

To "Center, Ronald E" <Ronald.E.Center@boeing.com>
cc Rodney Murphy/AWA/FAA@FAA
Subject Re: FW: ANTENNA VSWR TEST, EL SEGUNDO, CALink

Ron,

Performing some preliminary analysis, per below, it appears worse case that aircraft within 31.33 nmiles may pick up your test signal sweeping from 245-275 MHz with a 6 dB safety factor. Per the attachments, there are many assignments both FAA and Military in the UHF Spectrum that could be affected (search was from 33, 100 and 150 miles since the radius of operation for the aircraft varies dependent on use and facility). LAX right next door to your testing and other close facilities that have a greater potential of interference also uses frequencies in your proposed range.

Is it possible to either notch the frequencies above or use several single discrete frequencies that we could propose over that range in order test your antenna VSWR and also a question arises as to why it must be performed outside and not in a bldg or chamber?

Thanks,

Sydney Bradfield
WSA Spectrum Engineering Services
Operations Engineering Section, AWP-471.2
310-725-3671, DSN 958-3671

"Center, Ronald E" <Ronald.E.Center@boeing.com>
06/26/2006 02:34 PM

To "sydney.bradfield@faa.gov" <'sydney.bradfield@faa.gov'>
cc
Subject FW: ANTENNA VSWR TEST, EL SEGUNDO, CA

> Sydney,

>

> I don't know if you have had a chance to look at this yet, but I am
> attempting to complete this filing before the 4th of July weekend.
> Any assistance that you can provide will be greatly appreciated.

>

The Boeing Company is scheduling a VSWR test on a UHF Cup Dipole antenna and we are seeking FAA concurrence. The test is to be conducted outdoors, at our facility located in El Segundo, CA. I have attached the complete test description for your review and comment, as well as a map of the area with the location marked in yellow. If you have any questions or concerns please let me know.

> Thanks again,

>

> Ron Center
> The Boeing Company
> Frequency Management Services
> P.O. Box 3707 M/C 2T-22
> Seattle, WA 98124-2207
> (206) 544-6583

>

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> <<VSWR Test Description.doc>> <<elsegundo.pdf>>