

RE TCAS TESTING COORDINATION.txt

From: donald.nellis@faa.gov
Sent: Monday, February 11, 2008 7:46 AM
To: Center, Ronald E
Cc: Douglass, Bob; Cramer, Joseph
Subject: RE: TCAS TESTING COORDINATION

Ron,

The FAA concurs with the Boeing proposal below to seek a 2 year experimental license to support TCAS testing at 3 locations.

It is especially important that the requirement:

"If the aircraft transponder reports an altitude above ground, either the test set must be directly connected to the aircraft, or the test altitude, squawk code, time, and emergency contact point must be coordinated with the affected FAA Air Traffic Control Facility."

Appear in the special conditions of the experimental license to ensure that the testing does not generate any false TCAS alerts.

Don Nellis

"Center, Ronald
E"
<Ronald.E.Center@
boeing.com>

02/08/2008 02:00
PM

Donald Nellis/AWA/FAA@FAA To
cc
"Douglass, Bob"
<bob.douglass@boeing.com>, "Cramer,
Joseph" <joseph.cramer@boeing.com>
Subject
RE: TCAS TESTING COORDINATION

Don,

Thanks for taking the time to meet with us yesterday. As a follow-up to our discussion on TCAS testing, I would like to ask for your concurrence on the licensing plan outlined below. I filed an application for the Experimental license today, file number is 0076-EX-PL-2008, and would like to attach your email concurrence so that the FCC will have verification that we discussed this test plan with the FAA. Your assistance is appreciated.

Thanks,
Ron Center
The Boeing Company
Frequency Management Services
Seattle, WA
(206) 544-6583

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> _____
> From: Center, Ronald E
> Sent: Friday, January 25, 2008 12:52 PM
> To: donald.nellis@faa.gov
> Cc: Douglass, Bob; Cramer, Joseph
> Subject: TCAS TESTING COORDINATION
>
> Don,
>
> As you may recall, Boeing currently has three active STA's that
> allow for special testing using a TCAS test set. We would like to
> submit an application for an Experimental license to support continued
> TCAS and IFF testing at the three (3) Puget Sound locations authorized
> on the STA's. The intention is that the experimental license would
> replace the STA's. We request your coordination/concurrence to
> include as part of our application to the FCC. The specifics of the
> proposed operation are listed below.
>
> Our request will be submitted to the FCC Office of Engineering and
> technology and will ask for a license period of 24 months.
>
> The testing involves operation of the test set with an altitude set
> above ground level. We are currently conducting this type testing
> under the authorization of STA's, which were granted through the FCC
> Wireless Bureau, ULS Aviation and Marine branch. The current Call
> Signs are WQJ885, WQHA294 and WQHA295. These STA's are of short
> duration, and it was suggested by the FCC Aviation and Marine branch
> that we should submit an application for a more permanent license.
>
> The test location and parameters are indicated below, and we will
> comply with the special condition of the current licenses, which
> requires that; If the aircraft transponder reports an altitude above
> ground, either the test set must be directly connected to the
> aircraft, or the test altitude, squak code, time, and emergency
> contact point must be coordinated with the affected FAA Air Traffic
> Control Facility.
>
> The test locations are:
>
> 1. Renton Field, WA (RNT)
> 2. Boeing Field, WA (KBFI)
> 3. Paine Field, WA (PAE)
>
> Frequency: 1030 and 1090 MHz.
>
> Power: 0.01 watts
>
> Emission: 14M0V1D, 14M0K1D and 6M00M1D
>
> PRR: 235 (1030 MHz only)
>
> Type Aircraft: 707, 717, 727, 737, 747, 757, 767, 777and 787. We can
> also support additional aircraft to include military variants and
> Cessna type aircraft.
>
> IFF Modes: Mode 1, Mode 2, Mode 3, Mode 4, Mode A, Mode C, Squitter,
> Extended Squitter and Enhanced Surveillance. Mode 4 testing will be
> done using a low power interrogator.
>
> Type of Test Equipment: We have the ability of utilizing 12 different
> sets of test boxes. All those test sets meet ICAO Annex 10 Volume 4
> standards, FCC Rules and the will be used IAW applicable FAA rules.

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> The equipment used is the same equipment currently used on permanent
> RLT licenses held by The Boeing Company.
>
> Your assistance is greatly appreciated.
>
> Sincerely,
> Ron Center
> The Boeing Company
> Frequency Management Services
> Seattle, WA
> (206) 544-6583
>