

From: Sydney.Bradfield@faa.gov
Sent: Tuesday, June 17, 2008 4:44 PM
To: Center, Ronald E
Cc: Mario.CTR.Jimenez@faa.gov; victor.hinton@faa.gov;
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daniel.r.orear@faa.gov;
Vu.Pham@faa.gov; Mark.R.Gallant@faa.gov

Subject: Fw: COORDINATION REQUEST - AIRCRAFT PEDS TESTING

Attachments: Protection distance 118-137 MHz.doc; FAA Coordination Request.pdf

Ron,

Per our below Telcon today confirming that the testing will determine path loss only where the 10 usec transmission period is feasible and will be adhered to for each individual frequency insuring that the interference potential to actual Comm/NAV/GPS receivers is negligible and not an issue per coordination with our Headquarters/Technical Center below, we have created the appropriate coordination assignment numbers as follows:

NG T080360 0dBm/1mW	108-137 MHz	Stepped CW	500KN0N 10 uSec
NG T080361 0dBm/1mW	329-335 MHz	Stepped CW	500KN0N 10uSec
NG T080362 0dBm/1mW	962-1215 MHz	Stepped CW	1M00N0N 10uSec
NG T080363 0dBm/1mW	1530-1610 MHz	Stepped CW	1M00N0N 10 uSec
NG T080364 0dBm/1mW	4200-4400 MHz	Stepped CW	1M00N0N 10 uSec
NG T080365 0dBm/1mW	5030-5090 MHz	Stepped CW	1M00N0N 10 uSec

I have cc'd Mark Gallant of FAA Central Service Area to advise that you plan to pursue a similar test at the location of San Antonio, TX.

Sydney Bradfield
WSA Engineering Services

LA Operations Engineering Support Center, AJW-W15M
Comm/Spectrum Support Center
310-725-3671, DSN 958-3671

----- Forwarded by Sydney Bradfield/AWP/FAA on 06/17/2008 04:13 PM -----

Sydney Bradfield/AWP/FAA

AJW-W15M, Comm/Spectrum Spt Ctr - WSA

06/16/2008 03:29 PM

To Robert Frazier/AWA/FAA

cc Edward Coleman/ACT/FAA@FAA

Subject Fw: COORDINATION REQUEST - AIRCRAFT PEDS TESTING

Bob and Ed,

After I spoke with you today, Ed, I posed the question to Boeing whether 10 usec at each frequency would be able to achieve realistic results for their testing and Ron Center of Boeing needed the technical people available so he set up this Telcon. He did indicate something about a frequency stirring procedure that was developed through RTCA. In the event you are interested and can make it, you're welcome also and I asked Ron to invite you also, although I will gather all the information to pass along to you later if you're not able to be there.

Sydney

Calendar Entry

Meeting

Subject PEDS TEST DISCUSSION - BOEING/FAA

When

Starts Tue 06/17/2008 09:30 AM 30 mins

Ends Tue 06/17/2008 10:00 AM

Invitees Required (to) kenneth.p.kirchoff@boeing.com, Sydney
Bradfield/AWP/FAA

Chair Ronald.E.Center@boeing.com

Where Location Virtual

Categorize

Description

This meeting is scheduled to discuss the aircraft PEDS tolerance test.

Toll Free: 1-866-723-9670

Passcode: 5891197

To join the call dial the toll free number, and then follow the prompt to enter the passcode followed by the (#) pound sign.

Thanks,
Ron

Your Notes

----- Forwarded by Sydney Bradfield/AWP/FAA on 06/17/2008 04:04 PM -----

Robert Frazier/AWA/FAA

AJW-64, Spectrum Planning & Int'l Office

06/11/2008 01:03 PM

To Sydney Bradfield/AWP/FAA@FAA, Paul.dever@faa.gov,
edward.coleman@faa.gov

cc Daniel R ORear/ANM/FAA@FAA, Dave Walen/ANM/FAA@FAA, Donald
Nellis/AWA/FAA@FAA,
Edward Coleman/ACT/FAA@FAA, Gregory Dunn/ANM/FAA@FAA, James
Motley/AWP/FAA@FAA,
Mario CTR Jimenez/AWA/CNTR/FAA@FAA, Michael Richmond/AWA/FAA@FAA,
Nico Nguyen/AWP/FAA@FAA,
"Center, Ronald E" <Ronald.E.Center@boeing.com>, Thomas CTR
Christein/AWA/CNTR/FAA@FAA,
Thuy T Nguyen/AWP/FAA@FAA, Timothy J Pawlowitz/AWA/FAA@FAA, Victor
Hinton/AWA/FAA@FAA,
Vu Pham/ANM/FAA@FAA

Subject Re: Fw: COORDINATION REQUEST - AIRCRAFT PEDS
TESTINGLink

OK, the way I understand your description of the test signal, the Boeing test set will transmit a single 10 usec pulse with peak power of 10 dBm inside the aircraft, (with an expected 0 dBm outside the aircraft), and then the test signal generator will move to another frequency band. If this is the case, I don't see how such a signal will disrupt any NAS receivers. GPS will not even know it was there. I don't expect that neither will ILS, VOR or DME. You might hear a single click in a com receiver, but I don't even know if that would be audible.

Paul, Ed. How difficult would my hypothesis be to test on the bench?

bob f