

Parker, Alan D

To: Garcia-Jr, John E
Subject: RE: Coordination Request for EMC/EMI Ground Testing of the F-15 Saudi Transponder

From: donald.nellis@faa.gov [<mailto:donald.nellis@faa.gov>]

Sent: Tuesday, June 10, 2014 11:05 AM

To: Center, Ronald E; Sydney.Bradfield@faa.gov; Thorsheim, Joel D; Garcia-Jr, John E

Cc: james.motley@faa.gov; Kevin.Yazawa@faa.gov; Nico.Nguyen@faa.gov; John.Hepsen@faa.gov; Phuong.Duong@faa.gov; daniel.r.orear@faa.gov; Khoat.Nguyen@faa.gov; Vu.Pham@faa.gov; timothy.j.pawlowitz@faa.gov; Rene.Balanga@faa.gov; Thomas.Ahn@faa.gov; Anuj.K.Sinha@faa.gov; Charles.Thornton@faa.gov; Mike.Meza@faa.gov; Chris.Wong@faa.gov; 9-AWP-ZLA-MOS@faa.gov; 9-AWP-ZLA-OMIC@faa.gov; 9-AWP-ZLA-SOC@faa.gov; 9-AWP-POCC@faa.gov; Kevin.Pool@faa.gov; timothy.j.fodor@faa.gov

Subject: RE: Coordination Request for EMC/EMI Ground Testing of the F-15 Saudi Transponder

Ron,

Based on our discussion at the AIMS Conference and your draft text, please add the following as additional conditions for the FCC License.

(9) THIS LICENSE ONLY SUPPORTS EMI/EMC COMPATIBILITY TESTING OF THE F-15 SAUDI PROGRAM. NO OTHER TESTING MAY BE CONDUCTED UNDER THIS LICENSE.

(10) TESTING SHALL BE LIMITED TO A SMALL NUMBER OF TEST EVENTS (4-5) WITHIN THE NEXT 6-9 MONTH TEST WINDOW. EACH TEST EVENT IS EXPECTED TO COVER A 2 WEEK PERIOD WITH 3-5 TEST DAYS EACH. EACH TEST EVENT AS WELL AS SPECIFIC TRANSPONDER TEST DATES SHALL BE PRE-COORDINATED IN ACCORDANCE WITH CONDITION 5 ABOVE.

(11) THE TRANSPONDER TESTING SHALL BE LIMITED TO THE MINIMUM NUMBER OF 15 SECOND TRANSMISSIONS NECESSARY TO COMPLETE THE EMI/EMC TESTING.

With this addition, your FAA coordination is complete.

Don Nellis

From: Center, Ronald E [<mailto:Ronald.E.Center@boeing.com>]

Sent: Tuesday, June 03, 2014 5:56 PM

To: Bradfield, Sydney (FAA); Thorsheim, Joel D; Garcia-Jr, John E

Cc: Motley, James (FAA); Yazawa, Kevin (FAA); Nguyen, Nico (FAA); Hepsen, John (FAA); Duong, Phuong (FAA); Orear, Daniel R (FAA); Nguyen, Khoat (FAA); Pham, Vu (FAA); Nellis, Donald (FAA); Pawlowitz, Timothy J (FAA); Balanga, Rene (FAA); Ahn, Thomas (FAA); Sinha, Anuj K (FAA); Thornton, Charles (FAA); Meza, Mike (FAA); Wong, Chris (FAA); 9-AWP-ZLA-MOS; 9-AWP-ZLA-OMIC; 9-AWP-ZLA-SOC; 9-AWP-POCC; Pool, Kevin (FAA); Fodor, Timothy J (FAA)

Subject: RE: Coordination Request for EMC/EMI Ground Testing of the F-15 Saudi Transponder

Thanks, we really appreciate your quick turnaround.

Ron

From: Sydney.Bradfield@faa.gov [<mailto:Sydney.Bradfield@faa.gov>]

Sent: Tuesday, June 03, 2014 2:09 PM

To: Center, Ronald E; Thorsheim, Joel D; Garcia-Jr, John E

Cc: james.motley@faa.gov; Kevin.Yazawa@faa.gov; Nico.Nguyen@faa.gov; John.Hepsen@faa.gov; Phuong.Duong@faa.gov; daniel.r.orear@faa.gov; Khoat.Nguyen@faa.gov; Vu.Pham@faa.gov; donald.nellis@faa.gov; timothy.j.pawlowitz@faa.gov; Rene.Balanga@faa.gov; Thomas.Ahn@faa.gov; Anuj.K.Sinha@faa.gov; Charles.Thornton@faa.gov; Mike.Meza@faa.gov; Chris.Wong@faa.gov; 9-AWP-ZLA-MOS@faa.gov; 9-AWP-ZLA-OMIC@faa.gov; 9-AWP-ZLA-SOC@faa.gov; 9-AWP-POCC@faa.gov; Kevin.Pool@faa.gov; timothy.j.fodor@faa.gov

Subject: FW: Coordination Request for EMC/EMI Ground Testing of the F-15 Saudi Transponder

Ron, Joe, and John:

Subject to the reconfirmed conditions below as noted also in the frequency assignment records and future FCC License with the additional condition of required notification to our Spectrum Engineering Office at the beginning and end of the operational window, we provide our conditional concurrence under the following coordination assignments to support your FCC License:

SER	XSC	XAL	FRQ
NG T140239	CA	PALMDALE	M1030
NG T140240	CA	PALMDALE	M1090
NG T140241	CA	EDWARDS AFB	M1030
NG T140242	CA	EDWARDS AFB	M1090

CONDITIONS:

- (1) TEST SET INTERROGATIONS OF TRANSPONDER UNDER TEST SHALL NOT EXCEED A 15 SECOND DURATION DURING ANY SINGLE TEST SEQUENCE
AND THE TEST SET INTERROGATIONS MUST CEASE FOR A MINIMUM OF 1 MINUTE BETWEEN TEST EVENTS/SEQUENCES.
- (2) ALL TESTING SHALL BE CONDUCTED OFF-PEAK HOURS BETWEEN MIDNIGHT TO 4 AM.
- (3) AIRPLANE ALTITUDE MUST BE MAINTAINED AT GROUND LEVEL THROUGHOUT TEST EVENT TO PREVENT INTRODUCTION OF FALSE MODE C IN THE NAS.
- (4) VALID MODE A CODE MUST BE OBTAINED FROM LOCAL ATRCC.
- (5) EACH TEST EVENT MUST BE PRE-COORDINATED WITH LOCAL LA ATRCC, EDWARDS AFB RANGE CONTROL , AND PALMDALE TOWER
- (6) VALID MODE S CODE SHALL BE OBTAINED FROM EITHER SAUDI GOVERNMENT OR OTHER AUTHORIZED AGENCY.
- (7) STOP BUZZER POC SHALL ALSO BE LISTED ON LICENSE (CRAIG HADLOCK 661-265-3330, TOM ROGERS 314-705-2637 AS NOTED) WITH CONFIRMATION OF NAME AND CELL NUMBER PROVIDED TO LOCAL ARTCC (OMIC 661-265-8205) ON A DAILY BASIS JUST PRIOR TO EACH TEST EVENT AND AT TEST CESSATION.
- (8) LOCAL SPECTRUM ENGINEERING SHALL BE NOTIFIED AT THE TEST EVENT WINDOW BEGINNING CONFIRMING CEASE BUZZER AND END.

Sydney Bradfield
 FAA WSA Spectrum Engineering Services, AJW-1C7
 Los Angeles Western-Pacific Regional Office
 Office: 310-725-3671, DSN 958-3671
 Mobile: 310-863-5097

From: Bradfield, Sydney (FAA)
Sent: Friday, May 30, 2014 10:15 PM
To: Hanson, Andrew CTR (FAA)
Subject: FW: Coordination Request for EMC/EMI Ground Testing of the F-15 Saudi Transponder

Hi Andrew,

Could you upload this one for me?

Thanks as always,

Sydney

From: Thorsheim, Joel D [<mailto:Joel.D.Thorsheim@boeing.com>]
Sent: Friday, May 30, 2014 2:31 PM
To: Bradfield, Sydney (FAA); Center, Ronald E
Cc: Motley, James (FAA); Yazawa, Kevin (FAA); Nguyen, Nico (FAA); Hepsen, John (FAA); Duong, Phuong (FAA); Garcia-Jr, John E; Orear, Daniel R (FAA); Nguyen, Khoat (FAA); Pham, Vu (FAA)
Subject: RE: Coordination Request for EMC/EMI Ground Testing of the F-15 Saudi Transponder

Hi Sydney,

I attached is what I hope is the file you need and in the right format. My Air Force days were spent only on the SFAF side so the GMF format is new to me.

If this isn't what you need, please let me know.

Ron is likely in the air now on his way to the AIMS conference.

Thanks and have a nice weekend!

Joe

Joe Thorsheim
Frequency Management Services, M/C 2T-22
The Boeing Company
Phone: (206) 544-6066
Fax: (206) 662-0701

From: Sydney.Bradfield@faa.gov [<mailto:Sydney.Bradfield@faa.gov>]
Sent: Friday, May 30, 2014 1:27 PM
To: Center, Ronald E
Cc: james.motley@faa.gov; Kevin.Yazawa@faa.gov; Nico.Nguyen@faa.gov; John.Hepsen@faa.gov; Phuong.Duong@faa.gov; Garcia-Jr, John E; Thorsheim, Joel D; daniel.r.orear@faa.gov; Khoat.Nguyen@faa.gov; Vu.Pham@faa.gov
Subject: RE: Coordination Request for EMC/EMI Ground Testing of the F-15 Saudi Transponder

Thanks, Ron!

Yes definitely glad you guys have access to Spectrum XXI to facilitate the coordinations, but instead of GMF which we cannot have automation group upload automatically into an NG T assignment, I wonder if you could select the option out of Spectrum XXI for NTIA export in the Card Format necessary for the upload option.

Appreciate it and let me know if you all have any trouble doing that.

Sydney

From: Center, Ronald E [<mailto:Ronald.E.Center@boeing.com>]

Sent: Friday, May 30, 2014 9:03 AM

To: Bradfield, Sydney (FAA)

Cc: Motley, James (FAA); Yazawa, Kevin (FAA); Nguyen, Nico (FAA); Hepsen, John (FAA); Duong, Phuong (FAA); Garcia-Jr, John E; Thorsheim, Joel D

Subject: Coordination Request for EMC/EMI Ground Testing of the F-15 Saudi Transponder

Sydney,

Thanks for the sample document. We used Spectrum XXI and created a GMF format document to support the coordination. The special conditions that we discussed with Mr Nellis are listed in the SUP lines. The file contains four records, two for each location. One record for the communication from the test set to the transponder and a second record for the communication from the transponder back to the test set.

Please let me know if you need anything else. I really appreciate your support in issuing the NGT needed to actually get the license out the FCC.

Thanks,
Ron

From: Sydney.Bradfield@faa.gov [<mailto:Sydney.Bradfield@faa.gov>]

Sent: Thursday, May 29, 2014 4:51 PM

To: Center, Ronald E; Garcia-Jr@faa.gov; Garcia-Jr, John E

Cc: james.motley@faa.gov; Kevin.Yazawa@faa.gov; Nico.Nguyen@faa.gov; John.Hepsen@faa.gov; Phuong.Duong@faa.gov

Subject: Sample Interrogator Text Set/Transponder NTIA Card Formats: Edwards APX-118/USM-719E LATERAL COORDINATION

Hi Ron and John,

After discussing your application further, the attached sample NTIA Card Formats for existing assignments would be similar to your proposed Test Set and Transponder assignments.

So you could use the attached as a possible template and modify accordingly for your application/parameters to expedite. Please note that for the SUP lines, maximum length is 72 characters of data after the "SUPXX " mnemonic, and not sure if I adhered to that restriction so please verify on your records.

Below is a prior coordination where we provided the local engineering and corresponding temporary N T assignments to confirm our Service Area concurrence.

Please call if you have any questions or need clarification, and Chapter 9 attached again of the NTIA Handbook can be used as a reference/detailed explanation of the line items also.

Sydney Bradfield
FAA WSA Spectrum Engineering Services, AJW-1C7

Los Angeles Support Center
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