

**From:** [daniel.r.orear@faa.gov](mailto:daniel.r.orear@faa.gov)  
**To:** [Thorsheim, Joel D](mailto:Thorsheim, Joel D)  
**Cc:** [Thomas.Ahn@faa.gov](mailto:Thomas.Ahn@faa.gov); [timothy.j.pawlowitz@faa.gov](mailto:timothy.j.pawlowitz@faa.gov); [victor.hinton@faa.gov](mailto:victor.hinton@faa.gov)  
**Subject:** Re: FAA Coordination Request for Moses Lake P-8I EMC FCC STA  
**Date:** Thursday, April 04, 2013 1:58:00 PM

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Joe,

Here are the coordination numbers for the IFF transponder and ramp test sets specified below to support the P-8I EMC testing at Moses Lake.

| <b>Frequency (MHz)</b> | <b>FAA Coordination #</b> |
|------------------------|---------------------------|
| 1090 (IFF transponder) | NG T130137                |
| 108.1                  | NG T130139                |
| 108.15                 | NG T130138                |
| 334.55                 | NG T130140                |
| 334.7                  | NG T130141                |
| 108.0                  | NG T130142                |
| 108.05                 | NG T130143                |
| 978.0                  | NG T130144                |
| 979.0                  | NG T130145                |
| 1104.0                 | NG T130146                |
| 75.0                   | NG T130151                |
| 1090.0 (TCAS)          | NG T130152                |
| 1030.0 (TCAS)          | NG T130153                |

Dan ORear  
ATO Western Service Area  
Northwest Mountain Region  
Spectrum Engineering Services  
425-227-2637

**From:** "Thorsheim, Joel D" <[Joel.D.Thorsheim@boeing.com](mailto:Joel.D.Thorsheim@boeing.com)>  
**To:** Daniel R ORear/ANM/FAA@FAA  
**Date:** 03/14/2013 09:44 AM  
**Subject:** FAA Coordination Request for Moses Lake P-8I EMC FCC STA

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Dan,

The below requirements are required to support a P-8I program EMC SOFT test. FAA national level suggested an Eastern Washington location for the interrogator test but we do not have the below frequency assignments in place at Moses Lake to support this test. The Moses Lake interrogator requirement is now pending at the FCC under STA file number 0991-EX-ST-2012 and your coordination. We would like to conduct this test in late April or early May.

The transponder below was previously approved at Boeing Field under FCC call sign WG9XBQ and coordinated under NG T120430.

Please let me know if you have any additional questions.

Thanks for all your help.

Joe

Joe Thorsheim

Frequency Management Services, M/C 2T-22

The Boeing Company

Phone: (206) 544-6066

Fax: (206) 662-0701

## OBJECTIVE & TEST DESCRIPTION

This requirement supports aircraft Electromagnetic Compatibility (EMC) Safety of Flight Test (SOFT) testing at Moses Lake, WA.

## TEST OVERVIEW

Start Date: April 1, 2013  
Stop Date: September 30, 2013

## IFF Transponder

Manufacturer: Hindustan Aeronautics Limited (HAL)  
Model: 2410A TS  
Part Number: N149451  
Frequency: 1090 MHz  
Emissions: 14M0M1D (Modes 1,2,3/A, C)  
Emissions: 11M9M1D (Mode S)  
Antenna Type: Blade  
Antenna Polarization: Vertical  
Antenna Gain: 2.5  
Effective Radiated Output: 861 Watts (Peak)

## Ramp Test SetS

### Aeroflex IFR-4000 or IFR-6000

| <u>Function</u> | <u>Frequency (MHz)</u> | <u>Emission</u> | <u>Power ERP</u> |
|-----------------|------------------------|-----------------|------------------|
| LOC             | 108.1 and 108.15       | 6K00A9W         | 10 uW            |
| G/S             | 334.55 and 334.7       | 300HA1N         | 10 uW            |
| VOR             | 108.0 and 108.05       | 20K9A9W         | 10 uW            |
| DME             | 978.0 and 979.0        | 2M00M1D         | 10 uW            |
| DME             | 1104.0                 | 12M0M1D         | 10 uW            |
| MB              | 75.0                   | 6K00A2A         | 10 uW            |
| TCAS            | 1090.0                 | 14M0K1D         | 10 uW            |
| TCAS            | 1090.0                 | 14M0V1D         | 10 uW            |
| TCAS            | 1090.0                 | 6M00M1D         | 10 uW            |
| TCAS            | 1030.0                 | 12M0M1D         | 10 uW            |
| TCAS            | 1030.0                 | 14M0M1D         | 10 uW            |
| TCAS            | 1030.0                 | 6M00M1D         | 10 uW            |

### AN/USM-708 or Equivalent

| <u>Function</u> | <u>Frequency (MHz)</u> | <u>Emission</u> | <u>Power ERP</u> |
|-----------------|------------------------|-----------------|------------------|
| IFF SIF         | 1090                   | 8M00V1D         | 0.5 Watt         |
| IFF Mode S      | 1090                   | 7M00V1D         | 0.5 Watt         |

|            |      |         |          |
|------------|------|---------|----------|
| IFF SIF    | 1030 | 8M00V1D | 0.5 Watt |
| IFF Mode S | 1030 | 14M0V1D | 0.5 Watt |

**STOP BUZZER POINTS OF CONTACT:**

Primary: Terry Bowman at phone number 206-551-7210

Secondary: Nate Horton at phone number 206-852-3121

**LOCATION**

Ground tests will be conducted at Moses Lake, WA

Location: Moses Lake, WA (Fixed Location)

Latitude: 47-12-04 N

Longitude: 119-18-01 W