

From: [Roper, Jessica CIV NMSC, OPS](#)
To: [Thornsberry \(US\), Colin R](#)
Cc: [WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ](#); [Stephenson, Derrick R CTR \(USA\)](#)
Subject: RE: Navy Military Advisory Group (MAG) Pre-Coordination for Renewal of WJ2XGF
Date: Thursday, September 26, 2019 9:56:56 AM
Attachments: [image001.gif](#)

Colin,

Yes, this concurrence is the DON MAG coordination. I have spoken with Mr. Whittington, MAG Chair, and there are no objections to the renewal of the subject request.

Very Respectfully,

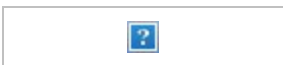
Jessica Roper
Navy and Marine Corps Spectrum Center
Operations Management Div
6916 Cooper Ave
Fort Meade, MD 20755-0549
NIPR: jessica.roper@navy.mil
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CML: 301-225-3833
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FAX: 301-225-0583
SharePoint: [NMSC OPS Team](#)

From: Thornsberry (US), Colin R <Colin.R.Thornsberry@boeing.com>
Sent: Thursday, September 26, 2019 10:32 AM
To: Roper, Jessica CIV NMSC, OPS <jessica.roper@navy.mil>
Cc: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ <william.whittington.5@us.af.mil>; Stephenson, Derrick R CTR (USA) <derrick.stephenson1@navy.mil>
Subject: [Non-DoD Source] RE: Navy Military Advisory Group (MAG) Pre-Coordination for Renewal of WJ2XGF

Jessica,

Thank you. Is the MAG okay with this as well?

Very Respectfully,
Colin Thornsberry
The Boeing Company
Global Spectrum Management
+1 (314) 545-2424



From: Roper, Jessica CIV NMSC, OPS [mailto:jessica.roper@navy.mil]
Sent: Thursday, September 26, 2019 9:21 AM
To: Thornsberry (US), Colin R <Colin.R.Thornsberry@boeing.com>
Cc: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ <william.whittington.5@us.af.mil>; Stephenson, Derrick R CTR (USA) <derrick.stephenson1@navy.mil>
Subject: RE: Navy Military Advisory Group (MAG) Pre-Coordination for Renewal of WJ2XGF

Colin,

The Department of Navy concurs with renewal of WJ2XGF.

Very Respectfully,

Jessica Roper
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From: Thornsberry (US), Colin R <Colin.R.Thornsberry@boeing.com>
Sent: Thursday, September 26, 2019 8:28 AM
To: Roper, Jessica CIV NMSC, OPS <jessica.roper@navy.mil>
Subject: [Non-DoD Source] RE: Navy Military Advisory Group (MAG) Pre-Coordination for Renewal of WJ2XGF

Jessica,

Thank you. I appreciate the help.

Very Respectfully,
Colin Thornsberry
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From: Roper, Jessica CIV NMSC, OPS [<mailto:jessica.roper@navy.mil>]
Sent: Tuesday, September 17, 2019 5:35 PM
To: Thornsberry (US), Colin R <Colin.R.Thornsberry@boeing.com>
Subject: RE: Navy Military Advisory Group (MAG) Pre-Coordination for Renewal of WJ2XGF

Colin,

In receipt and currently reviewing...will provide response soonest.

Very Respectfully,

Jessica Roper
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From: Thornsberry (US), Colin R <Colin.R.Thornsberry@boeing.com>
Sent: Thursday, September 12, 2019 11:55 AM
To: Roper, Jessica CIV NMSC, OPS <jessica.roper@navy.mil>
Subject: [Non-DoD Source] Navy Military Advisory Group (MAG) Pre-Coordination for Renewal of WJ2XGF
Importance: High

Good Morning Jessica,

Boeing is requesting Military Assignment Group (MAG) pre-coordination for renewal of FCC OET experimental license WJ2XGF. WJ2XGF expires December 31, 2019 but it is Boeing's intent to submit for a renewal once we are in the 90 day window. The following technical parameters apply:

System: AN/USM-708 Test Set
Frequency: 302.1 MHz

Emission: 70K0F1D

Power: 5.03 watts (mean) – this translates to 3.06 watts effective radiated power (ERP) since the antenna gain is 0 dBi gain.

Location: Berkeley, Missouri

Coordinates: 384504N 0902125W

Purpose/Detail: Approximately 2 years ago, Boeing F/A-18 E/F personnel were provided a USM-708 test set and amplifier, by the Naval Air Systems (NAVAIR) command, for the purposes of testing F/A-18 E/F aircrafts' Link 4A Automatic Carrier Landing System (ACLS). ACLS assists the F/A-18 in navigation during approach and landing (on an aircraft carrier). The USM-708 is a replacement of the GRC-171B(V)4 system that was previously used.

The previous system has a U.S. Navy frequency assignment, Navy serial number N 083857. The original intent was to modify Navy frequency assignment N 083857 to reflect the newer equipment. However, the test set is not currently approved to use the included 5 watt amplifier necessary to test the aircraft while in flight. The SPS paperwork, attached, only permits for 0.03 watt operation which while good for short distant ground testing, is not so suitable for flight testing. Boeing respectfully requests the MAG approve our FCC OET renewal request.

Previously, Boeing had requested the Navy program office, NAVAIR PMA-213, do a note-to-holder on the USM-708 certification to include the amplifier. That would have allowed us to update N 083857 with the new equipment using the included amplifier (both are government furnished equipment – GFE). However, per NAVAIR (see “FA_Note-to-Holder for USM-708 Test Set.pdf” attachment) **“I talked with the program office on this. The Navy does not use that mode or the 5 Watts for any of their ~10,000 USM-708 test sets. They are not planning to submit a NTH, as they do not want to jeopardize what is already approved. The approval for this test set took several years, so opening it up again to add the 5W mode gives FAA an opportunity to argue against what has been approved.”**

Since Boeing is unable to update N 083857 with the newer government furnished equipment (including the amplifier), Boeing is requesting WJ2XGF be renewed for another 2 year period. Boeing will request N 083857 be deleted since modification is not possible since the Navy will not agree to change the spectrum certification.

If you have any questions or concerns, or if there is another format our pre-coordination request needs to be in, please let me know soonest and I will respond accordingly.

Thank you in advance for your assistance.

Very Respectfully,

Colin Thornsberry

The Boeing Company

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