

From: [WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ](#)
To: [Fleming \(US\), Christopher T](#)
Cc: ["mark.k.rossow.civ@mail.mil"](#); [Navid Golshahi](#)
Subject: RE: Boeing MAG Coordination - Mesa, AZ (Queen Creek / San Tan Valley area)
Date: Tuesday, April 02, 2019 9:15:42 AM

Chris--the MAG and DoD AFC Arizona concur with an extension of subject STAs until 31 Aug 2019.

v/r,
Randy

-----Original Message-----

From: Fleming (US), Christopher T <christopher.t.fleming@boeing.com>
Sent: Monday, April 01, 2019 3:11 PM
To: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ
<william.whittington.5@us.af.mil>
Cc: 'mark.k.rossow.civ@mail.mil' <mark.k.rossow.civ@mail.mil>
Subject: [Non-DoD Source] RE: Boeing MAG Coordination - Mesa, AZ (Queen Creek / San Tan Valley area)

Randy and Mark,

Boeing needs to extend an FCC STA you previous coordinated with us on in Mil-UHF band. Due schedule slippages we will not be able to conduct testing as planned. We're hoping to extend out our STA until the end of August. Test parameters will be exactly the same as previously coordinated, and the Mesa site will be testing in the Queen Creek / San Tan Valley area.

Thanks,
Chris

Christopher Fleming
The Boeing Company
Team Lead, U.S Western Region | Global Spectrum Management
Office of Internal Governance & Administration
(480) 891-1041 (Office) / (714) 655-3290 (Cell)

-----Original Message-----

From: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ
[\[mailto:william.whittington.5@us.af.mil\]](mailto:william.whittington.5@us.af.mil)
Sent: Wednesday, November 14, 2018 2:12 PM
To: Fleming (US), Christopher T <christopher.t.fleming@boeing.com>
Cc: 'mark.k.rossow.civ@mail.mil' <mark.k.rossow.civ@mail.mil>
Subject: RE: Boeing MAG Coordination - Mesa, AZ

Chris--with DoD AFC AZ concurrence, the MAG concurs with Boeing's STA request.

Please annotate the application with the following: MAG CHAIR (WHITTINGTON) concurs 14 Nov 2018, when applying for your FCC license.

v/r,
Randy

-----Original Message-----

From: Fleming (US), Christopher T [<mailto:christopher.t.fleming@boeing.com>]
Sent: Monday, October 29, 2018 12:54 PM
To: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ
<william.whittington.5@us.af.mil>
Subject: [Non-DoD Source] RE: Boeing MAG Coordination - Mesa, AZ

Randy,

Here's a draft of the STA write up. We chose 4 channels from Annex B, and we will not exceed the limits of the channels.

Thanks,
Chris

-----Original Message-----

From: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ
[<mailto:william.whittington.5@us.af.mil>]
Sent: Sunday, October 28, 2018 8:13 AM
To: Fleming (US), Christopher T <christopher.t.fleming@boeing.com>
Subject: RE: Boeing MAG Coordination - Mesa, AZ

If you can make it work within the Annex B channels I will support for a 6 month period.

Send me your draft STA.

Randy

-----Original Message-----

From: Fleming (US), Christopher T [<mailto:christopher.t.fleming@boeing.com>]
Sent: Wednesday, October 24, 2018 1:10 PM
To: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ
<william.whittington.5@us.af.mil>
Subject: [Non-DoD Source] RE: Boeing MAG Coordination - Mesa, AZ

Qatar.

-----Original Message-----

From: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ
[<mailto:william.whittington.5@us.af.mil>]
Sent: Wednesday, October 24, 2018 10:06 AM
To: Fleming (US), Christopher T <christopher.t.fleming@boeing.com>
Subject: RE: Boeing MAG Coordination - Mesa, AZ

Now the important question, who is the customer, Army?

-----Original Message-----

From: Fleming (US), Christopher T [<mailto:christopher.t.fleming@boeing.com>]
Sent: Tuesday, October 23, 2018 10:28 AM
To: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ
<william.whittington.5@us.af.mil>

Cc: mark.k.rossow.civ@mail.mil

Subject: [Non-DoD Source] RE: Boeing MAG Coordination - Mesa, AZ

Randy,

We're trying to test out the frequency hopping capabilities of a transmitter we are putting on the Apache for a customer. The dwell time for each frequency will be less than 20 milliseconds. We're going to need a total of 120 frequencies to successfully complete this test. We only need 1 week sometime between 1 Feb and 30 Apr to complete this test. We've put together an attachment to better explain what we are trying to do.

We can move our testing from our Mesa site over to our testing strip in Queen Creek, AZ (33-11-28 N, 111-29-10 W), and limit ourselves to a radius of 35 nautical miles (64.82 km).

Thanks,

Chris

-----Original Message-----

From: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ

[mailto:william.whittington.5@us.af.mil]

Sent: Wednesday, September 26, 2018 2:32 PM

To: Fleming (US), Christopher T <christopher.t.fleming@boeing.com>

Cc: mark.k.rossow.civ@mail.mil

Subject: RE: Boeing MAG Coordination - Mesa, AZ

Chris--if the BW of the signal is not more than 25 kHz then it is not a WB requirement.

You will need to nominate single channel frequencies (minimum) to obtain your test objective.

Band assignments are not allowed in the MAG band.

v/r,

Randy

-----Original Message-----

From: Fleming (US), Christopher T [mailto:christopher.t.fleming@boeing.com]

Sent: Friday, September 21, 2018 9:42 AM

To: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ

<william.whittington.5@us.af.mil>

Cc: mark.k.rossow.civ@mail.mil

Subject: [Non-DoD Source] RE: Boeing MAG Coordination - Mesa, AZ

Randy,

Below are our band selections. If those don't work for one reason or another, we are open to selecting something else.

Also, I've received further clarification from the test engineers: The bandwidth we will require is just 25 kHz. That 25 kHz signal will be hopping around within the 1.2 MHz bands. We can and will ensure that we will not exceed the band segments.

1. 272.025 MHz thru 273.225 MHz
2. 324.900 MHz thru 326.100 MHz
3. 350.400 MHz thru 351.600 MHz
4. 374.400 MHz thru 375.600 MHz

Thanks,
Chris

-----Original Message-----

From: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ
[mailto:william.whittington.5@us.af.mil]
Sent: Tuesday, September 11, 2018 5:22 PM
To: Fleming (US), Christopher T <christopher.t.fleming@boeing.com>
Cc: mark.k.rossow.civ@mail.mil
Subject: RE: Boeing MAG Coordination - Mesa, AZ

Chris-- have your engineers look at Annex B. This is a wideband requirement and will have to
Use Annex B frequencies. Once the nomination is made, we will then need to coordinate with
The DoD AFC Arizona for concurrence.

v/r,
Randy

-----Original Message-----

From: Fleming (US), Christopher T [mailto:christopher.t.fleming@boeing.com]
Sent: Tuesday, September 04, 2018 1:05 PM
To: WHITTINGTON, WILLIAM R GS-15 USAF ACC AFSMO/SQ
<william.whittington.5@us.af.mil>
Subject: [Non-DoD Source] Boeing MAG Coordination - Mesa, AZ

Randy,

I would like to pre-coordinate, with the MAG, a test that we plan on filling an FCC STA for. This is to support comm checks on a Direct Commercial Sale Apache variant. Comm check will have both a ground and air phase.

This test will begin 4 Feb 2019 and end 30 Apr 2019.

Transmitter: Thales 6036

Bandwidth: 1 MHz

Emission: F3E

Power: 20 W (mean)

Location: Boeing, Mesa, AZ (33-28-18.2 N, 111-43-33.4 W)

Radius: 80 km

Antenna: Cobham 12-207-9, Omnidirectional

Antenna Gain: 0 dBi

Polarization: Vertical

Frequency: We'll take any frequencies we can get in Military UHF band. Below I copy and pasted the requirement from the Test Engineer.

Per our Test Engineer:

"With regards to the frequency authorization we need to support the Secure Voice Frequency Hopping (SVFH) mode on the TRA6036 radio for Qatar, it has to cover a 4 MHz sub band in the UHF band.

The sub bands can be grouped as follows:

1. The 4 MHz sub band frequencies can be sequential such as from 225 to 229 MHz.
2. The 4 MHz sub band can be divided into two 2 MHz bands such as from 225 to 227 and 300 to 302.
3. The 4 MHz sub band can be divided into four 1 MHz bands such as from 225 to 226, 300 to 301, 350 to 351, and 355 to 356."

Thank you ahead of time, and please let me know if you have any questions.

Thanks,

Chris

Christopher Fleming

Team Lead, U.S. Western Region
Global Spectrum Management

(Formerly, Frequency Management Services)

(480) 891-1041 (Desk)

(714) 655-3290 (Cell)

