

From: "South, Matthew CIV NAVAIR 511200E" <matthew.south@navy.mil>
Date: March 9, 2011 1:29:40 PM PST
To: <torres@avinc.com>
Subject: FW: NAWC WD Frequency Support

Gabe,

Sorry for the long delay. Frequency management has been diligent in coordinating w/other installation. Hence, the delay. Informal 'blessing' is identified below w/official letter expected to follow.

MTS

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

From: Robbins, Clinton W CIV NAVAIR, 52313MD
Sent: Friday, March 04, 2011 9:51
To: South, Matthew CIV NAVAIR 511200E
Cc: Seals, Kathy NAVAIR Ranges; May, Christopher NAVAIR; Hernandez, Michael A NAVAIR; Richardson, Joseph L CIV NAVAIR, 52370MD; Szelog, John CIV NAVAIR, 52370MD
Subject: RE: NAWC WD Frequency Support

Matthew,

I have reviewed AeroVironment's request. NAWCWD has no issues with this emitter as long as the emitter remains outside the boundaries (Restricted, Controlled and Warning) of Navy installations and ranges.

This emitter will be operating in the Area of Responsibility of the DoD Area Frequency Coordinator-Western (WAFC) and it was only proper to share the request with the Air Force Flight Test Center at Edwards AFB CA, NASA Dryden at Edwards AFB and Palmdale CA, NASA/JPL in Pasadena CA and the Aerospace & Flight Test Radio Coordination Council (AFTRCC). No impacts positive or negative have been received to date.

I will provide you a formal letter referencing the same information shortly.

Feel free to contact me with any questions or comments.

v/r

Clinton W. Robbins
Head, Frequency Management Branch
Pacific Range Operations Division
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-----Original Message-----

From: South, Matthew CIV NAVAIR 511200E
Sent: Monday, January 10, 2011 11:54
To: May, Christopher NAVAIR
Cc: Robbins, Clinton W CIV NAVAIR, 52313MD
Subject: RE: NAWC WD Frequency Support

Chris / Clint,

Here's the email from AeroVironment. Basically they are looking for a letter of concurrence that would state that the Navy does not object to AV operations. Please let me know how I can assist.

Matthew South
Sr. T&E Engr - Unmanned Systems
NAWC WD Code 518000H
(805) 989-1423
(805) 816-0778 (c)

Matt,

Hello again. Hope you had a pleasant holiday.

Following up on our phone conversation, we're getting ready to submit an application to the FCC for an experimental license for the 4.9 GHz Public Safety band. Our application for experimental license includes a request for a waiver of one of the restrictions of the FCC rules for this band. This waiver allows us to use this frequency in an airborne application (small unmanned aircraft system) below 400 ft AGL. We intend to conduct operations in the area of Simi Valley, CA and also in the area of Camp Roberts, CA. Our transmitters are limited to 26 dBm EIRP (less than 0.5 Watts) with omnidirectional antennas. We expect a maximum bandwidth of 20 MHz. We would be flying below 400 ft AGL at all times.

Because the Public Safety band (4940 to 4990 MHz) is just above the frequencies used for Navy CEC operations, we'd like to request your help in obtaining a letter of concurrence from Point Mugu (or other responsible Navy

organization) that says that the Navy has no issues with us operating on the frequencies mentioned above. My understanding is that the Navy CEC frequency spectrum extends up to 4940 MHz and is not a direct conflict, but that the Navy CEC transmissions are very powerful and at times can bleed into the adjacent 4940-4990 Public Safety band. We understand that there is the possibility of interference on our system caused by Navy CEC operations, and we will be working within that constraint.

The requested letter of concurrence would state that the Navy does not object to OUR operations. I have attached a sample letter in case this is helpful. We would like to request a response in the next couple of weeks if possible.

Please let me know if I can answer any additional questions.

Thank you

Gabriel

Gabriel Torres
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-----Original Message-----

From: May, Christopher NAVAIR
Sent: Thursday, January 06, 2011 12:04
To: South, Matthew CIV NAVAIR 511200E
Cc: Robbins, Clinton W CIV NAVAIR, 52313MD
Subject: RE: NAWC WD Frequency Support

Matt,

My holidays went very well, hope yours were the same.

You've come to the right place. Frequency Management for both the Land and Sea Ranges, as well as the Western Area Frequency Coordinator, are in my Division. Clint Robbins is the head of the Branch. I've included him on distribution of this email as his lead for the Sea Range is on extended Sick Leave. I don't know the exact particulars of how AeroVironments request would go, but if they are looking at operating on the ranges, such a request

would require more than a letter from us. Clint is the expert, and can guide you in the right direction. He can be reached at DSN 436-6085.

Thanks,
Chris

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

From: South, Matthew CIV NAVAIR 511200E
Sent: Thursday, January 06, 2011 11:54 AM
To: May, Christopher NAVAIR
Subject: NAWC WD Frequency Support

Chris,

Hope your holidays went well. Now that we're back I need some guidance. At one point in time you were heading up the frequency shop. Not sure if you still are but here's the deal.

Got a call from AeroVironment. They are looking to move forward with a frequency request in the 'public emergency' band (~4.9 GHz?) and they were wondering if they can get a letter out of NAWC WD stating no expected conflicts. I said this may have to come out of the Western Area Frequency Coordinators office, but didn't know. They are suppose to be sending me a synopsis email.

When I get this information, where should I start the process?

Matthew South

Sr. T&E Engr - Unmanned Systems

NAWC WD Code 518000H

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