From:	Wayne Morris
To:	Craig Mauldin
Cc:	"Hankins, Danny" (dhankins@txtav.com); Chriss Brown
Subject:	[External] Fwd: [Non-DoD Source] Fwd: AFTRCC ICN 1132-20/8196 (Raytheon X-NET Radio Demo-Virginia Beach, VA)
Date:	Thursday, February 27, 2020 3:05:54 PM

Craig,
Please note comments from MIDLANT, they have concurred.

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This email is your AFTRCC coordination.

This coordination includes this header information, DOD Area Frequency Coordinator comments and AFTRCC comments. These messages must not be
separated.

This coordination is advisory only and not binding on the FCC. Applicants are advised that this coordination does not constitute a judgment that the
frequency(ies) is best suited for the applicant's purpose nor that the frequency(ies) is exclusive to the applicant. Flight Test frequencies are
shared and may require scheduling with other users.

In return for AFTRCC's processing of the applicant's coordination request, the applicant agrees to release and hold harmless AFTRCC, its officers,
directors, agents, members, and representatives from any claims, losses or expenses that may arise from the use of the frequency.

This coordination is not an authorization to transmit. A copy of this coordination must accompany application to the FCC.

Signed:
Wayne Morris
AFTRCC Telemetry Coordinator
903-450-5942
```

---------- Forwarded message ---------
From: **Hoschar, Scott A CIV USN NAVAIRWARCENACDIV MD (US)** <scott.hoschar@navy.mil>
Date: Thu, Feb 27, 2020 at 3:56 PM
Subject: RE: [Non-DoD Source] Fwd: AFTRCC ICN 1132-20/8196 (Raytheon X-NET Radio Demo-Virginia Beach, VA)
To: Wayne Morris <5600wayne@gmail.com>
Cc: Hoschar, Scott A CIV USN NAVAIRWARCENACDIV MD (US) <scott.hoschar@navy.mil>, Goddard, Robert N CIV USN (USA) <robert.n.goddard@navy.mil>, Landrum, Shauntrae L CTR USN NAS PAX MD (USA) <shauntrae.landrum.ctr@navy.mil>

Wayne:

Thanks for the gentle reminder ;-D

Based on the additional information, MIDLANTAFC concurs with STA usage on a non-interference basis to Flight Test Telemetry from 4/23 to 5/8 May.

Please inform Raytheon that this a one-time STA support and that any future use of any portion of the 1435 – 1525 MHz will require a formal meeting with MIDLANTAFC and others in the Navy and DOD flight test community to discuss future needs and requirements and justification as to why critical safety of life telemetry spectrum like 1435 – 1525 MHz is required.

Also inform Raytheon to keep all of their operations to the minimum altitude necessary and to primarily use the upper portion of this spectrum, i.e. 1500 – 1525 MHz, if at all possible.

Thanks,

V/r,
Scott

Scott A. Hoschar

Head, MIDLANTAFC

Middle Atlantic Area Frequency Coordination Office

NAWC AD Installation Spectrum Manager

301.342.9549 | Office

301.672.5455 | Cell

midlantafc_paxriver@navy.mil | MIDLANTAFC Group e-mail

scott.hoschar@navy.mil | NIPRnet (unclassified email)

scott.hoschar@navy.smil.mil | SIPRnet (classified email)

Naval Air Warfare Center Aircraft Division (NAWCAD)

23013 Cedar Point Road, BLDG 2118

Patuxent River, MD 20670

From: Wayne Morris <5600wayne@gmail.com>
Sent: Tuesday, February 25, 2020 11:53 AM
To: Hoschar, Scott A CIV USN NAVAIRWARCENACDIV MD (US) <scott.hoschar@navy.mil>
Subject: Fwd: [Non-DoD Source] Fwd: AFTRCC ICN 1132-20/8196 (Raytheon X-NET Radio Demo-Virginia Beach, VA)

Hi Scott,

Where are we on this?

Thanks in advance.

Wayne

---------- Forwarded message ---------
From: **Hoschar, Scott A CIV USN NAVAIRWARCENACDIV MD (US)** <scott.hoschar@navy.mil>
Date: Wed, Feb 19, 2020 at 4:39 PM
Subject: RE: [Non-DoD Source] Fwd: AFTRCC ICN 1132-20/8196 (Raytheon X-NET Radio Demo-Virginia Beach, VA)
To: Wayne Morris <5600wayne@gmail.com>, MIDLANTAFC_PAXRIVER <midlantafc_paxriver@navy.mil>
Cc: Goddard, Robert N CIV USN (USA) <robert.n.goddard@navy.mil>

This as well … 1st thing in the AM …

From: Wayne Morris <5600wayne@gmail.com>
Sent: Wednesday, February 19, 2020 3:07 PM
To: Hoschar, Scott A CIV USN NAVAIRWARCENACDIV MD (US) <scott.hoschar@navy.mil>; MIDLANTAFC_PAXRIVER <midlantafc_paxriver@navy.mil>
Subject: [Non-DoD Source] Fwd: AFTRCC ICN 1132-20/8196 (Raytheon X-NET Radio Demo-Virginia Beach, VA)

Scott,

I'm reintroducing this back to you. This is the one for Part of the Trident Demo thing in VA Beach but in "L" band.

You had said that you were leaning toward concurrence put wanted to know if they (Raytheon) could lower their

altitude. I am attaching their response. I really need to get some of these out of the way so am eagerly awaiting your response.

V/R

Wayne

David Duran <**david_duran@raytheon.com**> Mon, Feb 3, 11:42 AM

to Craig, me

Hi Wayne,

We will have various flight patterns throughout the 2 week Trident Spectre demonstration. Although some flights will require us to be at or below 1000 ft, I cannot promise that every flight will.

In addition to this, we will not need to use the entire 1435 – 1525 MHz range. Our system only requires a 20MHz chunk within this range. Is there a way to deconflict sharing this range? The system we are operating uses Dynamic Spectrum Access, in which we sense over the 20Mhz and opportunistically use bandwidth that is not being used. (i.e. do no harm to other emitters detected within this range). We are willing to coordinate on a day-to-day basis as well.

Thank you,

David Duran

Principal Systems Engineer

Space and Airborne Systems (SAS)

Raytheon Company

714.588.5956 cell

714.446.4361 office

David_Duran@Raytheon.com

---------- Forwarded message ---------
From: **Wayne Morris** <5600wayne@gmail.com>
Date: Thu, Jan 16, 2020 at 1:03 PM
Subject: AFTRCC ICN 1132-20/8196 (Raytheon X-NET Radio Demo-Virginia Beach, VA)
To: Goddard, Robert N. CIV NAVAIR 5.1.1.3 <robert.n.goddard@navy.mil>
Cc: MIDLANTAFC_PAXRIVER <Midlantafc_paxriver@navy.mil>

AFTRCC concurs with and requests DoD MIDLANT AFC concurrence/coordination on

the following STA request.

Applicant:

Raytheon Company

2000E El Segundo Blvd.

El Segundo, CA 90245

POC: Craig Mauldin

Frequencies: 1435.0 thru 1525.0 MHz

Station Class: MOEA

Emission: 1M20G2D

Power: 4.832 watts (Peak/zero gain antenna)

Location: Virginia Beach, VA (36-55-22 N 76-01-01 W)

MIRAD: 62 miles (100 KM)

Maximum flight altitude: 5000', AGL

Dates: 2020-04-23 thru 2020-05-08

AFTRCC comments: non-interference basis to Flight Test telemetry.

Demo of integration of X-Net radio onto RQ-21A Blackjack UAS.

Requester states device is listen before transmit.

Please reply via return email as to concurrence, non-concurrence, scheduling, or

additional comments.

Signed:
Wayne Morris

AFTRCC Telemetry Coordinator

903-450-5942