

RE FW Coordination for 0701-EX-ST-2005 (120205 thru 122005 Please Expedite ASAP).txt
From: John.Cabala@faa.gov
Sent: Tuesday, December 20, 2005 3:10 PM
To: Lemmons, Perry
Subject: RE: FW: Coordination for 0701-EX-ST-2005 (12/02/05 thru 12/20/05 Please Expedite ASAP)

Perry,

The FAA does not object to extending this request through Mar 31, 06 provided the original restrictions are followed ("fixed frequency" mode listed is denied).

JOHN CABALA, Lt Col, USAF
Spectrum Engineering Services
Federal Aviation Administration
800 Independence Ave, SW
Washington DC 20591
V 202 267-8584
F 202 267-5901

This email may contain For Official Use Only or Sensitive Security Information

"Lemmons, Perry"
<Perry.Lemmons@nmsc.navy.mil>

12/20/2005 08:35
AM

Michael Biggs/AWA/FAA@FAA

To

cc

"Pearce, Elvira"
<Elvira.Pearce@nmsc.navy.mil>,
"Anton, James"
<James.Anton@nmsc.navy.mil>,
Jerrold Sandors/AWA/FAA@FAA, John
Cabala/AWA/FAA@FAA, "Horrocks,
Michael (Contractor)"
<Michael.Horrocks.ctr@nmsc.navy.mil>,
Robert Frazier/AWA/FAA@FAA,
"twwoods@ntia.doc.gov"
<twwoods@ntia.doc.gov>,
"vcobb@ntia.doc.gov"
<vcobb@ntia.doc.gov>

Subject

RE: FW: Coordination for
0701-EX-ST-2005 (12/02/05 thru
12/20/05 Please Expedite ASAP)

Mike,

RE FW Coordination for 0701-EX-ST-2005 (120205 thru 122005 Please Expedite ASAP).txt

Thanks for responding. You're correct in that the NASA platform is only to be used for the Air Force and will not be a telemetry/telecommand link. They are very aware (and I will remind them again) of the requirement to log all emissions into the deconfliction server for overall TSDF control. FACS FACSD is short for Fleet Area Control and Surveillance Facility San Diego and I know for a fact that these folks know all Link 16 requirements. I admit there is a procedural problem here with Northrop Grumman going through FCC on this. I will personally make them aware of proper Link 16 procedures even though they may not need it after this. I hope this helps but if not, just call or write. Thanks again.

Respectfully,
Perry G Lemmons Jr.
Navy-Marine Corps Spectrum Center
2461 Eisenhower Avenue
Hoffman I, Suite 1202
Alexandria Va, 22331-1400
(703) 325-2815
DSN 221-2815

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

From: michael.biggs@faa.gov [mailto:michael.biggs@faa.gov]
Sent: Tuesday, December 20, 2005 8:21 AM
To: Lemmons, Perry
Cc: Pearce, Elvira; Anton, James; jerrold.sandors@faa.gov;
john.cabala@faa.gov; Horrocks, Michael (Contractor);
robert.frazier@faa.gov; 'twoods@ntia.doc.gov'; 'vcobb@ntia.doc.gov'
Subject: RE: FW: Coordination for 0701-EX-ST-2005 (12/02/05 thru
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Perry -

Thanks again for the info, and while I don't understand all the acronyms, I get the impression that the use of JTIDS is actually for the Air Force, and that the NASA bird is just being used as a platform for that Air Force program. It will not be used as some sort of telemetry/telecommand link. Please correct me if I am wrong.

I would like to take the opportunity to promulgate one clarification, obviously it is not the number of users in a network that determine whether it is a concern ... 2 users can eat up a whole 100% network by themselves. Even a lower per-terminal levels, all TSDF must be input into the geographic area server to ensure the aggregate levels are not exceeded. I don't know what "FACS FACSD" is, but perhaps we should be sure they are aware of that fact.

I also think we may need some more outreach to purchasers/borrowers of Link-16 equipment to be sure they all know the procedures to follow before they are used to transmit. Is there some procedure in-place to accomplish that?

Mike Biggs
FAA ATO-W/Spectrum

RE FW Coordination for 0701-EX-ST-2005 (120205 thru 122005 Please Expedite ASAP).txt
phone:+1-202-267-8241

"Lemmons, Perry"
<Perry.Lemmons@nm
sc.navy.mil>

12/19/2005 06:23
AM

Michael Biggs/AWA/FAA@FAA

To

cc

"Pearce, Elvira"
<Elvira.Pearce@nmsc.navy.mil>,
"Anton, James"
<James.Anton@nmsc.navy.mil>,
Jerrold Sandors/AWA/FAA@FAA, John
Cabala/AWA/FAA@FAA, "Horrocks,
Michael (Contractor)"
<Michael.Horrocks.ctr@nmsc.navy.mil
>, Robert Frazier/AWA/FAA@FAA,
"twoods@ntia.doc.gov"
<twoods@ntia.doc.gov>,
"vcobb@ntia.doc.gov"
<vcobb@ntia.doc.gov>

Subject

RE: FW: Coordination for
0701-EX-ST-2005 (12/02/05 thru
12/20/05 Plea se Expedite
ASAP)

Mike,

Attached is the answer I got back from Northrop Grumman.

Respectfully,
Perry G Lemmons Jr.
Navy-Marine Corps Spectrum Center
2461 Eisenhower Avenue
Hoffman I, Suite 1202
Alexandria Va, 22331-1400
(703) 325-2815
DSN 221-2815

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

From: michael.biggs@faa.gov [mailto:michael.biggs@faa.gov]
Sent: Wednesday, December 14, 2005 10:15 AM
To: Lemmons, Perry
Cc: Pearce, Elvira; Anton, James; jerrold.sandors@faa.gov;
john.cabala@faa.gov; Horrocks, Michael (Contractor);
robert.frazier@faa.gov; 'twoods@ntia.doc.gov'; 'vcobb@ntia.doc.gov'
Subject: RE: FW: Coordination for 0701-EX-ST-2005 (12/02/05 thru
12/20/05 Plea se Expedite ASAP)

RE FW Coordination for 0701-EX-ST-2005 (120205 thru 122005 Please Expedite ASAP).txt

Thanks for that, good to know NASA is not in the bombing business.

OK, then to get some baselines. US224 allows "government" spread spectrum systems in the band ... so we should assume that any N-G use of JTIDS will be in support of a government contract for their "system demonstrations"? If they use the link, should we expect other manufs to do the same (i.e., has JTIDS become a telemetry/telecommand link for system demonstrations)? If so, how do we ensure those uses are entered into the deconfliction server? For that matter, what TSDF was authorized for the N-G STA ... depending on the math their request can be interpreted as between 100% and 200% which should have had a big impact on other DOD uses ... did/does it?

Off hand it seems we may be moving into a new model for JTIDS ... from a tactical DOD data link into a comm link for other users/functions. If that is true, I think we need to discuss.

Mike Biggs
FAA ATO-W/Spectrum
phone:+1-202-267-8241

"Lemmons, Perry"
<Perry.Lemmons@nm
sc.navy.mil>

12/14/2005 09:17
AM

Michael Biggs/AWA/FAA@FAA To
cc

"Pearce, Elvira"
<Elvira.Pearce@nmsc.navy.mil>,
"Anton, James"
<James.Anton@nmsc.navy.mil>,
Jerrold Sandors/AWA/FAA@FAA, John
Cabala/AWA/FAA@FAA, "Horrocks,
Michael (Contractor)"
<Michael.Horrocks.ctr@nmsc.navy.mil
>, Robert Frazier/AWA/FAA@FAA,
"twoods@ntia.doc.gov"
<twoods@ntia.doc.gov>,
"vcobb@ntia.doc.gov"
<vcobb@ntia.doc.gov>

Subject

RE: FW: Coordination for
0701-EX-ST-2005 (12/02/05 thru
12/20/05 Plea se Expedite
ASAP)

Mike,

Thanks for the inquiry. The attached is the response from Northrop
Page 4

RE FW Coordination for 0701-EX-ST-2005 (120205 thru 122005 Please Expedite ASAP).txt
Grumman. Please let me know if you have any other questions.

Respectfully,
Perry G Lemmons Jr.
Navy-Marine Corps Spectrum Center
2461 Eisenhower Avenue
Hoffman I, Suite 1202
Alexandria Va, 22331-1400
(703) 325-2815
DSN 221-2815

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

From: michael.biggs@faa.gov [mailto:michael.biggs@faa.gov]
Sent: Wednesday, December 14, 2005 7:26 AM
To: Lemmons, Perry
Cc: Pearce, Elvira; Anton, James; jerrold.sandors@faa.gov;
john.cabala@faa.gov; Horrocks, Michael (Contractor);
robert.frazier@faa.gov; 'twoods@ntia.doc.gov'; 'vcobb@ntia.doc.gov'
Subject: Re: FW: Coordination for 0701-EX-ST-2005 (12/02/05 thru
12/20/05 Plea se Expedite ASAP)

Should we expect NASA to be a continued player in the JTIDS arena? What do
they do with a bomber?

Mike Biggs
FAA ATO-W/Spectrum
phone:+1-202-267-8241

"Lemmons, Perry"
<Perry.Lemmons@nm
sc.navy.mil>

12/14/2005 06:25
AM

John Cabala/AWA/FAA@FAA

To

cc

Jerrold Sandors/AWA/FAA@FAA,
Michael Biggs/AWA/FAA@FAA, Robert
Frazier/AWA/FAA@FAA,
"'twoods@ntia.doc.gov'"
<twoods@ntia.doc.gov>,
"'vcobb@ntia.doc.gov'"
<vcobb@ntia.doc.gov>, "Anton,
James" <James.Anton@nmsc.navy.mil>,
"Horrocks, Michael (Contractor)"
<Michael.Horrocks.ctr@nmsc.navy.mil
>, "Pearce, Elvira"
<Elvira.Pearce@nmsc.navy.mil>

Subject

FW: Coordination for
0701-EX-ST-2005 (12/02/05 thru
12/20/05 Plea se Expedite ASAP)

RE FW Coordination for 0701-EX-ST-2005 (120205 thru 122005 Please Expedite ASAP).txt

John,

As you can see below, Northrop Grumman is requesting an extension through March 2006. If you recall, they initially sent a STA request through FCC who in turn contacted NTIA who then contacted your office. I was contacted by FCC yesterday who put me in touch with the Northrop Grumman representative. I explained to them the proper coordination procedures for any future requests. Thanks in advance for your attention to this matter and please let me know if you have any questions.

Respectfully,
Perry G Lemmons Jr.
Navy-Marine Corps Spectrum Center
2461 Eisenhower Avenue
Hoffman I, Suite 1202
Alexandria Va, 22331-1400
(703) 325-2815
DSN 221-2815

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

From: Berrong, Fred [mailto:fred.berrong@ngc.com]

Sent: Tuesday, December 13, 2005 2:33 PM

To: Lemmons, Perry

Cc: Schuemann, Vance W.

Subject: FW: Coordination for 0701-EX-ST-2005 (12/02/05 thru 12/20/05

Please Expedite ASAP)

Importance: High

Mr. Lemmons:

We have been asked by several agencies to do additional demonstrations of the equipment using this JTIDS authorization, and request that the authorization be extended through March, 2006. There will probably be no more than ten additional flights.

I believe that all necessary information is included in the following e-mail string and within the attached documents.

Thank you,

Fred Berrong
Northrop Grumman Corporation
661-272-7033.

From: John.Cabala@faa.gov [mailto:John.Cabala@faa.gov]

Sent: Saturday, December 03, 2005 8:27 AM

To: Lemmons, Perry

Cc: jerrold.sandors@faa.gov; michael.biggs@faa.gov; robert.frazier@faa.gov;

twooods@ntia.doc.gov; vcobb@ntia.doc.gov; Downie, Tom; Berrong, Fred; Hunt,

Jim; Anton, James; Horrocks, Michael (Contractor); Pearce, Elvira

Subject: RE: Coordination for 0701-EX-ST-2005 (12/02/05 thru 12/20/05

Please Expedite ASAP)

Importance: High

The FAA does not object to this STA for the air and ground operations of the MIDS LVT2 terminal as requested, with the exception of the "fixed frequency" mode listed, which is denied.

I understand the urgency of this request, however, in the future, all JTIDS

RE FW Coordination for 0701-EX-ST-2005 (120205 thru 122005 Please Expedite ASAP).txt
requests will be submitted through the NMSC (Perry Lemmons (703) 325-2815)
a minimum of 30 days prior to start date.

Perry, thanks for your expeditious analysis.

JOHN CABALA, Lt Col, USAF
Spectrum Engineering Services
Federal Aviation Administration
800 Independence Ave, SW
Washington DC 20591
V 202 267-8584
F 202 267-5901

This email may contain For Official Use Only or Sensitive Security
Information

-----"Lemmons, Perry" <Perry.Lemmons@nmsc.navy.mil> wrote: -----

To: John Cabala/AWA/FAA@FAA, Jerrold Sandors/AWA/FAA@FAA, Michael
Biggs/AWA/FAA@FAA, Robert Frazier/AWA/FAA@FAA
From: "Lemmons, Perry" <Perry.Lemmons@nmsc.navy.mil>
Date: 12/02/2005 10:34AM
cc: twoods@ntia.doc.gov, vcobb@ntia.doc.gov, "Downie, Tom"
<Tom.Downie@nmsc.navy.mil>, "'gred.berrong@ngc.com'"
<gred.berrong@ngc.com>, "Hunt, Jim" <Jim.Hunt@nmsc.navy.mil>, "Anton,
James" <James.Anton@nmsc.navy.mil>, "Horrocks, Michael (Contractor)"
<Michael.Horrocks.ctr@nmsc.navy.mil>, "Pearce, Elvira"
<Elvira.Pearce@nmsc.navy.mil>
Subject: RE: Coordination for 0701-EX-ST-2005 (12/02/05 thru 12/20/05 - Pl
ease Expedited ASAP)

Gentlemen,

As you can see from the trail below, Northrop Grumman wishes to conduct a
JTIDS test in the San Diego area that will include a MIDS LVT-2 ground
terminal at 324939N1170812W and an airborne NASA XB-57 aircraft. I have
deconflicted the area and found the closet Navaid to be a DME (FAA 792680)
located at 324911N1170847W which is 0.67 nautical miles away. The LVT-2
ground terminal will use an omnidirectional antenna with 7.5 dBi of gain
and
6.25 dB of line losses. My calculations indicate the required separation
to
be 0.61 nm in order to achieve the minus 33 dBm restriction. Additionally,
the aircraft includes external 1030/1090 MHz notch filters providing an
additional 40 dB of suppression. I've attached the cosite analysis that
shows the safety margin to be 21.9 dB weaker than the minimum trigger
level
of minus 80 dBm. Thank you for your consideration and please let me know
if
you have any questions.

Respectfully,
Perry G Lemmons Jr.
Navy-Marine Corps Spectrum Center
2461 Eisenhower Avenue
Hoffman I, Suite 1202
Alexandria Va, 22331-1400
(703) 325-2815
DSN 221-2815

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

From: John.Cabala@faa.gov [mailto:John.Cabala@faa.gov]

Page 7

RE FW Coordination for 0701-EX-ST-2005 (120205 thru 122005 Please Expedite ASAP).txt
Sent: Thursday, December 01, 2005 3:28 PM
To: perry.lemmons@nmsc.navy.mil
Cc: twoods@ntia.doc.gov; jerrold.sandors@faa.gov;
robert.frazier@faa.gov; michael.biggs@faa.gov;
downiet@navemscen.navy.mil; vcobb@ntia.doc.gov
Subject: Fw: Coordination for 0701-EX-ST-2005 (12/02/05 thru 12/20/05 -
Please Expedited ASAP)
Importance: High

Perry, I'm not in Fri, but this one is coming in off track and needs to be expedited, even though it was not coordinated correctly. If it in fact is URGENT and has to be approved tomorrow and you get the separation analysis completed, you can forward it over to me and CC all above, and Mike or Robert can provide the FAA approval if they are in.

Push come to shove, I can be reached at 703 568-5770 (cel) and can coordinate via phone if necessary.

JOHN CABALA, Lt Col, USAF
Spectrum Engineering Services
Federal Aviation Administration
800 Independence Ave, SW
Washington DC 20591
V 202 267-8584
F 202 267-5901

This email may contain For Official Use Only or Sensitive Security Information

----- Forwarded by John Cabala/AWA/FAA on 12/01/2005 03:17 PM -----

Rene
Balanga/AWA/FAA

12/01/2005 03:06
PM

To
John Cabala/AWA/FAA@FAA, Margarette
Ebate/AWA/FAA@FAA, Victor
Hinton/AWA/FAA@FAA

cc

Subject

Fw: Coordination for
0701-EX-ST-2005 (12/02/05 thru
12/20/05 - Please Expedited
ASAP)

Here's the high priority STA request....

RJ

RE FW Coordination for 0701-EX-ST-2005 (120205 thru 122005 Please Expedite ASAP).txt

RJ Balanga
ATC Spectrum Engineering Services
Technical Operations Services (AJW-63)
FAA Headquarters
800 Independence Ave, SW
Room 715
Washington, DC 20591
Voice: 202.267.3819
Fax: 202.267.5901

----- Forwarded by Rene Balanga/AWA/FAA on 12/01/2005 03:06 PM -----

"Verleanor Cobb"
ov>

To

12/01/2005 02:59
PM

Jerrold Sandors/AWA/FAA@FAA, Rene
Balanga/AWA/FAA@FAA

cc

Subject

Fwd: Coordination for
0701-EX-ST-2005 (12/02/05 thru
12/20/05 - Please Expedited
ASAP)

** High Priority **

Please Expedited ASAP.

>>> Verleanor Cobb 12/1/2005 2:44:31 PM >>>
The FCC request to issue a Special Temporary Authorization (STA) to
Northrop Grumman from December 2-20, 2005.

See attachment for frequencies, locations and details.

This STA is being provided to you in order for you to assess any potential
impact of this STA to your agencies operations. In order for NTIA to
provide timely comments to the FCC request, all comments and/or
concurrence
must be provided to this office by close of business December 1, 2005.
Any
agency not replying is considered to be in concurrence with the proposal.

Thomas Woods Jr.
Chief, Frequency Assignment Branch
Spectrum Services Division
Office of Spectrum Management
National Telecommunications & Information Administration

(See attached file: 73636.PDF)(See attached file: 0701ST05FAS.txt)(See
attached file: Request for Expedited Processing of 0701-EX-ST-2005.txt)

RE FW Coordination for 0701-EX-ST-2005 (120205 thru 122005 Please Expedite ASAP).txt
(See attached file: XB-57 Cosite.xls)(See attached file: NASA JTIDS.pdf)
(See attached file: NASAS JTIDS #2.txt)(See attached file: WC9XJA.pdf)

[attachment "RE STA extension.txt" deleted by Michael Biggs/AWA/FAA]

[attachment "RE STA extension2.txt" deleted by Michael Biggs/AWA/FAA]