

William Thompson

From: Looney, Kelly L. (MSFC-FP50) <kelly.l.looney@nasa.gov>
Sent: Sunday, April 19, 2015 9:07 PM
To: William Thompson
Subject: FW: Frequency for Surrey OTB

Importance: High

Hi Will,

Just heard back from Scott....see below....let me know any issues/questions you may have....we can talk tomorrow....

Kelly

From: <GALBRAITH>, "VINCENT SCOTT (GSFC-4500)" <vincent.s.galbraith@nasa.gov>
Date: Sunday, April 19, 2015 at 6:30 PM
To: James H Looney <kelly.l.looney@nasa.gov>
Cc: Danny Harris <danny.w.harris@nasa.gov>, Raymond French <raymond.a.french@nasa.gov>
Subject: Frequency for Surrey OTB

Kelly,

I am pleased to report to you that as of Friday we have obtained limited concurrence on the federal side for the Surrey OTB spacecraft to use a downlink frequency in the 2200-2290 MHz spectrum. We have reviewed frequencies least likely to cause an interference problem to federal space users at this time. It is recommended that Surrey file for a license with the FCC and request use of **2272.5 MHz** for **downlink** to the ground station which will be constructed at Johnson Space Center.

Surrey's application to the FCC should be for an experimental license with a term not to exceed 3 years. The issues with this operational request are as much regulatory as they were originally technical and agreement has been obtained subject to constraints. DoD as agreed to not object to the issuance of the experimental license provided that it meets their conditions on the length of the operation. Agreement has been made strictly on the basis that the OTB is serving federal entities (acknowledging that Surrey itself may have its own private payload separate from the three government ones.) Since the federal requirements are projected to last no more than 2-3 years, the FCC authorization needs to be limited to that time period. At that time, if government needs might extend, then the federal sector will consider agreeing to renewal of the experimental license in 1 year intervals and related to serving the needs of the federal users up to the possible life of USG need at 5 years. Operation of the OTB on this frequency under an experimental license will be on a secondary non-interference basis to all other authorized users of the spectrum.

We (NASA) made every effort to find and recommend a frequency which is least likely to cause any interference based upon current and known future operations. It is still possible that interference could result and it is also possible that future missions and operations could commence on frequencies which might be in conflict with the operation of the OTB. Surrey is strongly encouraged to identify spectrum which is available for non-federal space operators and plan future missions to utilize that spectrum.

If there are any questions, please contact me.

Best regards,

Scott

From: Looney, Kelly L. (MSFC-FP50)
Sent: Monday, March 30, 2015 10:21 PM
To: GALBRAITH, VINCENT SCOTT (GSFC-4500)
Cc: Harris, Danny W. (MSFC-FP50); French, Raymond A. (MSFC-FP50)
Subject: Re: Further re, Status

Hi Scott,

In answer, we have not worked the MOA details with JSC/ESTL yet, as we were waiting on the frequency selection. However we are engaged with them through monthly tag ups and are working the details now. They have committed to providing ground station support to Surrey through the life of ISS program which is currently through 2020. Beyond that, they can't make any commitments regarding the facility.

Let me know if you need any additional information...

Kelly
Sent from my iPhone

On Mar 28, 2015, at 6:30 AM, GALBRAITH, VINCENT SCOTT (GSFC-4500)
<vincent.s.galbraith@nasa.gov> wrote:

Kelly,

In your response to my last series of questions, you indicated "**DSAC has a planned 1 year mission, but if still operable after that would likely push to get funding to operate an additional year. The SERB payloads have a planned mission of 2 years. Again, if still operable at the end, they would likely try to continue operating and collecting data. The test data that Surrey is collecting on some of their own technology demonstration payloads would be collected beyond DSAC and SERB payloads, if possible.**"

Is NASA (JSC) committed via contract/MOA/MOU to provide full ground station and network support for the life of the spacecraft even if all USG payload activity has ceased?

Thanks,

Scott

From: <GALBRAITH>, Vincent Galbraith <vincent.s.galbraith@nasa.gov>
Date: Thursday, March 26, 2015 11:58 AM
To: "Looney, Kelly L. (MSFC-FP50)" <kelly.l.looney@nasa.gov>
Cc: VICTOR SPARROW <victor.d.sparrow@nasa.gov>, William Horne <william.horne@nasa.gov>, John Zuzek <john.e.zuzek@nasa.gov>
Subject: RE: Status?

Kelly,

Rest assured that you will know as soon as decisions are reached. (Well, within a reasonable email time at least J) The selection is still under review outside of NASA and I have not received a response yet.

Regards,

Scott

From: Looney, Kelly L. (MSFC-FP50)
Sent: Thursday, March 26, 2015 4:24 PM
To: GALBRAITH, VINCENT SCOTT (GSFC-4500)

Subject: Status?
Importance: High

Hi Scott,

Good morning! Hope all is well with you. Will Thompson and I are sitting in the USAF STP-2 Payload Readiness Review in Albuquerque. Will is presenting the status on readiness of OTB this afternoon. If you have any update on the frequency coordination/approval that we can report here to Colonel Cothorn, please let me know. If not, are you still expecting to hear something in the next 2-3 weeks?

Thanks so much,

Kelly

Kelly Looney

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