

Rummel, Jeffrey

From: Rummel, Jeffrey
Sent: Friday, August 27, 2021 11:47 AM
To: 'Williams, Jonathan V.'; 'Vanderley, Ashley'
Cc: 'Simpson, Clarence E. IV'; 'Quay, Noah B.'; 'Sweeney, Dan C.'; 'West, David M.'
Subject: Leidos - NSF Ku Coordination Agreement Follow-Up (Experimental Operations under Call Signs WJ2XAY and WI2XZF)
Attachments: March 2021 - Leidos_NSF_ku Band Coordination Agreement.DOC; NSF Redline March 11 2021.DOCX; WJ2XAY - Current License and Pending Renewal Application .msg; WI2XZF - Current License, Pending Modification Application and NRQZ No Objection.msg

Ashley and Jonathan:

Hope all is well !

Quick catch-up on the following items:

Finalization of Updated Ku-Band Coordination Agreement

- As you know, Leidos would like to finalize the updated Ku-coordination agreement with NSF when you and your colleagues are ready to complete the process.
- Jonathan's last email below indicated that final NSF review was still occurring.
- In addition to the clean and redlined versions of the attached updated coordination agreement, we provided some comments in my March 11 and March 18 emails below.
- Please let us know if you need anything further from Leidos to complete the update of the coordination agreement.

Verification of Ongoing Operations under Station WJ2XAY and Station WI2XZF

- As you know, the Leidos experimental call signs referenced in the agreement are: WJ2XAY and WI2XZF.
- This is to confirm the following – let us know if you have any questions, or if you believe this impacts the agreement in any material manner:
- Re: WJ2XAY:
 - o Attached are:
 - § The current granted WJ2XAY license (issued under File No. 0441-EX-CR-2019)
 - § The currently pending renewal application, seeking renewal of the license with no technical changes, under File No. 0461-EX-CR-2021. As you can see, Exhibit 1 to the renewal application requests an update to the Stop Buzzer information for the license.
- Re: WI2XZF:
 - o Attached are:
 - § The current granted WI2XZF license (issued under File No. 0376-EX-CR-2019)
 - § The currently pending modification application, under File No. 0148-EX-CM-2021 seeking to:

- Delete the ground-based operations at Antenna 1.
- Update contract information
- Update Stop Buzzers

§ Confirmation of no objection from the NRQZ.

Best regards,

Jeff Rummel
Attorney for Leidos, Inc.

Jeffrey E. Rummel
Partner

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From: Williams, Jonathan V. <jonwilli@nsf.gov>

Sent: Friday, May 14, 2021 10:44 AM

To: Rummel, Jeffrey <Jeffrey.Rummel@arentfox.com>; Vanderley, Ashley <bevander@nsf.gov>

Cc: Simpson, Clarence E. IV <CLARENCE.E.SIMPSON.IV@leidos.com>; Quay, Noah B. <NOAH.B.QUAY@leidos.com>; Sweeney, Dan C. <dan.sweeney@leidos.com>; West, David M. <David.M.West@leidos.com>

Subject: Re: Leidos - NSF Ku Coordination Agreement Follow-Up

Jeff,
I'm working with Ashley to confirm a couple of items on this. I don't think there are any issues; we're "dotting i's", as it were.

Jonathan

Jonathan Williams
Program Director
Astronomical Sciences Division
National Science Foundation
2415 Eisenhower Ave, Rm W9188
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Telephone: 703-292-2455

From: Vanderley, Ashley <bevander@nsf.gov>

Sent: Thursday, March 18, 2021 1:30 PM

To: Rummel, Jeffrey <Jeffrey.Rummel@arentfox.com>; Williams, Jonathan V. <jonwilli@nsf.gov>

Cc: Simpson, Clarence E. IV <CLARENCE.E.SIMPSON.IV@leidos.com>; Quay, Noah B. <NOAH.B.QUAY@leidos.com>;

Sweeney, Dan C. <dan.sweeney@leidos.com>; West, David M. <David.M.West@leidos.com>

Subject: RE: Leidos - NSF Ku Coordination Agreement Follow-Up

Thanks, Jeff.

Received. We can incorporate this change.

Did you have any other final edits?

Ashley

B. Ashley Zauderer, Ph.D.

Program Director

- Electromagnetic Spectrum Management
- Arecibo Observatory

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From: Rummel, Jeffrey <Jeffrey.Rummel@arentfox.com>

Sent: Thursday, March 18, 2021 10:12 AM

To: Vanderley, Ashley <bevander@nsf.gov>; Williams, Jonathan V. <jonwilli@nsf.gov>

Cc: Simpson, Clarence E. IV <CLARENCE.E.SIMPSON.IV@leidos.com>; Quay, Noah B. <NOAH.B.QUAY@leidos.com>;

Sweeney, Dan C. <dan.sweeney@leidos.com>; West, David M. <David.M.West@leidos.com>

Subject: [EXTERNAL] - RE: Leidos - NSF Ku Coordination Agreement Follow-Up

Ashley:

Hope all is well.

Regarding our efforts to finalize the attached coordination agreement, I have been informed that the street number has changed for Mr. West and Mr. Simpson, as specified in **red** below.

6 Points of Contact

For Leidos:

PRIMARY POC:

David West
Systems Engineer
1398 1402 Airport Rd Bridgewater VA 22812
Mobile: 423.836.8325
David.M.West@leidos.com

COPIES TO:

Clarence Simpson
Systems Engineering Project Lead
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540-831-0261
Clarence.E.Simpson.IV@leidos.com

If it is not too much trouble for you to incorporate this address change into the document, that would be appreciated.

However, if you would like us to send you new versions of the attached documents with these changes included, please let me know.

Best regards,

Jeff

Jeffrey E. Rummel
Partner

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From: Rummel, Jeffrey
Sent: Thursday, March 11, 2021 11:00 AM
To: Zauderer, Bevin A. <bezauder@nsf.gov>; Williams, Jonathan V. <jonwilli@nsf.gov>
Cc: Simpson, Clarence E. IV <CLARENCE.E.SIMPSON.IV@leidos.com>; Quay, Noah B. <NOAH.B.QUAY@leidos.com>; Sweeney, Dan C. <dan.sweeney@leidos.com>; West, David M. <David.M.West@leidos.com>
Subject: Leidos - NSF Ku Coordination Agreement Follow-Up

Ashley:

Hope all is well.

Apologies for the delay. Leidos has now prepared the attached "Clean" and "Redline" version of the Ku-band coordination agreement.

Once you have reviewed, if you would like to coordinate a call, let us know.

Some notes regarding the attached:

- Cover page:

Leidos does not need a logo, so unless you require it, we can remove that comment.

- Re: Section 3.2 – "Additional Radio Astronomy Sites":

At the time of our last call with you, my notes reflect that you explained that these sites were not yet operating in the band subject to this agreement and that Leidos would not be required to protect these sites until Leidos was notified that they were operating in-band and were subject to protection. We discussed including language to this effect in the agreement to clarify this. We also discussed that protection of these Section 3.2 sites is referenced in other sections (e.g., 4.2, 4.3, 4.5, 4.8, 4.9) and that appropriate language could be inserted to clarify the status of these sites as described in the prior sentence.

The version you sent back in August did not seem to address this, so we have included some notes and edits referencing this issue.

- As you know, this Agreement specifically references Leidos' experimental grants under call signs WI2XZF and WJ2XAY because those FCC grants contain Special Conditions which require a ku-band coordination agreement with NSF, and which reflect authorized operations in the ku-band which are proximate to an exclusion area. To

be clear, Leidos has been issued authority for other experimental operations which are within the ku-band but outside the observational frequencies of 14.47-14.50 GHz and which do not contain a Special Condition requiring a coordination agreement with NSF. Leidos assumes that such other FCC-authorized operations do not need to be referenced in this coordination Agreement, regardless of the areas of operation authorized in such grant documents. However, if you need any information regarding such other authorized operations or feel that such other operations should be referenced in this agreement as not subject to the NSF restrictions, please let us know.

Best regards,

Jeff Rummel
Attorney for Leidos, Inc.

Jeffrey E. Rummel
Partner

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From: Zauderer, Bevin A. <bezauder@nsf.gov>
Sent: Monday, August 24, 2020 10:11 AM
To: Rummel, Jeffrey <Jeffrey.Rummel@arentfox.com>; Moomau, Brandi N. <Brandi.N.Moomau@leidos.com>; Williams, Jonathan V. <jonwilli@nsf.gov>
Cc: Lytle, Samson N. <Samson.Lytle@leidos.com>
Subject: Re: Leidos - NSF Ku Coordination Agreement Follow-Up

Dear Jeff and Colleagues,

Thanks for your patience with getting this agreement finalized. Since we know you are able to operate, we have not prioritized completing this as other activities get added to our plate. But, I hope we can get it finalized soon.

Attached are two versions. _clean has all track changes accepted and the other has the track change history. I left highlighting in _clean for my most recent changes, described below.

I have gone off memory of what we had discussed needed to be modified as my notes are in my office, which I haven't been back to since mid-March!

Brief summary of changes:

- (1) Clarified the agreement only is for the 14.7 - 15 GHz; the only mention of the 11 GHz band is in the background and the section noting that RAS stations to observe elsewhere and appreciate whatever help we can get to keep the sites quiet (section 4.8)
- (2) Changed Attachment 1 to "Appendix 1" and added Appendices 2 and 3. Also modified language such that in the future we can modify the call signs, POCs, lists of telescopes without reopening the official agreement as long as there is no substantial change.
- (3) NSF Asst. Director has left; modified who will be signing on our side.
- (4) Added footnote to explain why Harvey had described the VLA as a single dish

- (5) fixed numbering
- (6) a few other minor typos, etc.

Let's set up a phone call if you see any other edits that need to be made or we missed the mark.

Otherwise, once we both agree, we can run this by our legal counsel. Then, we can start the official process of obtaining all the signatures to get this formally signed.

Ashley