Exhibit 1

This modification application seeks revisions to the following frequency ranges on the WJ2XAY license as follows:

- Modify 13.75-13.77 GHz to "14.402-14.429 GHz"

- Modify 13.78-14.393 GHz to "14.246-14.274 GHz"

No other technical changes are requested to the license.

As you can see in the attached email, NASA has confirmed that these modifications will remove the requirement for a ku-band cooridnation agreement with NASA. See attached email. Based on discussions with NSF, a coordination agreement with NSF will continue to be required and Leidos is in the process of updating its existing agreement with NSF.

Accordingly, it is requested that upon grant of this application Special Condition 5 be revised to remove the requirement for a coordination agreement with NASA, as follows:

> (5) Operation pursuant to this authorization must be in compliance with the terms of Leidos, Inc.'s coordination agreement~~s~~ with the National Science Foundation ~~**and the National Aeronautics and Space Administration**~~ pertaining to operation of earth stations aboard aircraft (ESAA) in the Ku-Band.

From: GALBRAITH, VINCENT SCOTT (GSFC-4500) <vincent.s.galbraith@nasa.gov>
Sent: Tuesday, May 7, 2019 3:08 PM
To: Rummel, Jeffrey <Jeffrey.Rummel@arentfox.com>
Cc: Cacciatore, Lisa E. (GSFC-4500) <lisa.e.cacciatore@nasa.gov>; Berman, Ted (GSFC-450.S)[PERATON, INC] <theodore.e.berman@nasa.gov>; Berman, Ted (GSFC-450.S)[PERATON, INC] <theodore.e.berman@nasa.gov>
Subject: RE: Leidos/NASA - Ku-Band Coordination for Experimental Operations - Follow-Up
Importance: High

Jeff,

Following our review and discussion, this is to advise that I believe the changes you proposed below would alleviate our concerns and the need for any MOA to protect our sites. Our belief is based upon the way you stated the ranges below and that the full necessary bandwidth of your emissions would be contained within those limits.

Regards,
- Scott

From: Rummel, Jeffrey
Sent: Friday, March 22, 2019 1:40 PM
To: vincent.s.galbraith@nasa.gov; lisa.e.cacciatore@nasa.gov; theodore.e.berman@nasa.gov; smanohar@peraton.com
Subject: Leidos/NASA - Ku-Band Coordination for Experimental Operations - Follow-Up

All:

Good afternoon.

As you may recall, last year my client Leidos, Inc. entered into discussions with NASA to negotiate a ku-band coordination agreement based on Leidos' authority issued under Experimental Station WJ2XAY and Special Condition 5 to that license.

See correspondence below from last year, and current version of WJ2XAY license attached ("Current Version of WJ2XAY License Before Modification.pdf")

Since that time, Leidos has determined that revisions to the WJ2XAY authorized frequencies can be accomplished while still allowing the company to conduct its experiments.

Specifically, Leidos has prepared the attached modification application to be filed with the FCC – see attached "WJ2XAY Draft Modification Application.pdf".

As you can see, the modification as currently drafted proposes the following revisions to the authorized frequencies on the license:

- Modify 13.75-13.77 GHz to "14.402-14.429 GHz"
- Modify 13.78-14.393 GHz to "14.246-14.274 GHz"

Before Leidos submits the modification application to the FCC, however, Leidos would like to know:

- If NASA believes that these frequency revisions would remove the requirement for Leidos to enter into a ku-band coordination agreement with NASA under Special Condition 5.

  Or

- If NASA believes that a ku-band coordination agreement would still be necessary, would these frequency modifications remove any prior objections or concerns NASA previously identified (e.g., see Mr. Galbraith's email below from 3/7/18, where he stated that "the operation of any units below 14 GHz is fully within our receiver passband and that will really complicate things.")

You input on this question would be greatly appreciated.

Best regards,

Jeff Rummel
Attorney for Leidos, Inc.

Jeffrey E. Rummel
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