

## Rummel, Jeffrey

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**From:** National Radio Quiet Zone (NRQZ) <nrqz@nrao.edu>  
**Sent:** Friday, September 16, 2022 9:27 AM  
**To:** Rummel, Jeffrey  
**Cc:** Electromagnetic Spectrum Management - ESM (esm@nsf.gov); National Radio Quiet Zone (NRQZ)  
**Subject:** NRQZ ID 220819A - Site Name ['Bridgewater, VA-2', 'Bridgewater, VA-1'] - Letter of Concurrence, Coordination Not Required Letter  
**Attachments:** 220819A Coordination Not Required - Site Bridgewater VA1.pdf; 220819A Coordination Not Required - Letter of Concurrence - Site Bridgewater VA2.pdf

Dear Applicant and/or Frequency Coordinator:

Find attached a Letter of Concurrence (LOC) and/or Letter recognizing coordination is not required, that fulfills the coordination requirements of the National Radio Quiet Zone (NRQZ) under [Federal Code 47CFR1.924 \(a\)](#) for quiet zones that "minimize possible impact on the operations of radio astronomy or other facilities that are highly sensitive to interference." 47CFR1.924 (a) "NRAO, NRRO. The requirements of this paragraph are intended to minimize possible interference at the National Radio Astronomy Observatory site located at Green Bank, Pocahontas County, West Virginia, and at the Naval Radio Research Observatory site at Sugar Grove, Pendleton County, West Virginia."

Please review all documentation upon receipt and advise the NRQZ office immediately of any errors or discrepancies.

Please read the attached documentation carefully for any special conditions of this concurrence.

The NRQZ Office requests that:

1. This Letter of Concurrence be attached to the FCC application.
2. The FCC application should indicate to the FCC that the assignment should be modified to include the current NRQZ ID in the supplementary details line (e.g. "SUP: NRQZ COORD COMPLETE 2022 SEP 16/NRQZ ID 220819A").
3. The applicant provides the NRQZ Office (nrqz@nrao.edu) with notice of its official filing with the FCC per section 47CFR1.924 (a) (2).
4. The FCC should email the NSF Electromagnetic Spectrum Management Unit (esm@nsf.gov) when the supplemental details have been modified to include the NRQZ ID as this will facilitate faster approval of the application.

As a reminder, you will need to attach this document to your official filing with the FCC.

You shall provide notification of your ULS filing to the NRQZ office by supplying the file number and date.

If I can be of further assistance, or if there are any questions or concerns, please feel free to contact the NRQZ office at [nrqz@nrao.edu](mailto:nrqz@nrao.edu). Please address all emails to [nrqz@nrao.edu](mailto:nrqz@nrao.edu).

Attachment: Letters of Concurrence

Sincerest regards,

*Sheldon*

Sheldon Wasik



## NATIONAL RADIO ASTRONOMY OBSERVATORY

POST OFFICE BOX 2  
GREEN BANK, WV 24944-0002  
NRQZ OFFICE TELEPHONE (304) 456-2107  
HTTP://WWW.GB.NRAO.EDU/

FAX (304) 456-2276  
NRQZ@NRAO.EDU

September 16, 2022  
Page 1 of 2  
NRQZ ID: 220819A

David M. West  
1398 Airport Road  
Bridgewater, VA 22812

Application Reason/Purpose	Prior coordination notification
File Number	220819A
Applicant Name	Leidos, Inc.
Call Sign	['W12XOX']
Site Name or Loc	['Bridgewater, VA-1']
Previous NRAO Coordination No.	
Current NRAO Coordination No.	220819A-12, 220819A-11, 220819A-10, 220819A-09, 220819A-08, 220819A-07

Dear Applicant:

The National Radio Quiet Zone (NRQZ) has reviewed these facilities and determined coordination is not required per NTIA Manual section 8.3.9. The NRQZ Office is in communication with the applicant in regards to any voluntary coordination.

The NRQZ Office requests that:

1. The applicant modify their frequency proposal in SSXI to include the current NRQZ ID in the supplementary details line (e.g. "SUP: NRQZ COORD NOT REQ 2022 SEP 16/NRQZ ID 220819A").
2. The applicant should email the NSF Electromagnetic Spectrum Management Unit ([esm@nsf.gov](mailto:esm@nsf.gov)) when the supplemental details have been modified to include the NRQZ ID, as this will facilitate faster approval of the application.



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If I may be of assistance, please feel free to contact me.

Sincerest regards,

Sheldon Wasik  
NRQZ Program Administrator

cc: [nrqz@nrao.edu](mailto:nrqz@nrao.edu), [esm@nsf.gov](mailto:esm@nsf.gov), Sugar Grove Research Station Spectrum Management Group

This Letter remains valid provided the data contained within is consistent with the applicant's filing. Any discrepancy in system parameters, such as geographical coordinates (Latitude, Longitude, AMSL), antenna height above ground level (AGL), antenna gains or directivity (orientation), channel (operating frequency or frequency bands), emission type, and power requires re-coordination. If there are any questions regarding the validity of this or any concurrence, please direct inquiries to [nrqz@nrao.edu](mailto:nrqz@nrao.edu) or 304-456-2107.

NRQZ ID	Site Name	Lat N NAD83	Lon W NAD83	MSL (m)	Max TX Pwr (W)	# TX per Sector	# TX per Facility	Freq Low (MHz)	Freq High (MHz)	Bandwidth (MHz)	Max Gain (dBi)	Antenna Model	AGL (m)	Az ° True	Mechanical-DT	Electrical-DT	Max eRPd of facility (W)	NRAO ERPD Limit (W)
220819 A-12	Bridge water, VA-1	38 22 00.0	-78 57 37.0	355	20.0	1	1	5250	5850	44.7	2.15	N/A	45 72 .0	275.8	0	0	1.0	1.3e- 01
220819 A-11	Bridge water, VA-1	38 22 00.0	-78 57 37.0	355	20.0	1	1	4400	4940	44.7	2.15	N/A	45 72 .0	275.8	0	0	1.0	2.0e- 02
220819 A-10	Bridge water, VA-1	38 22 00.0	-78 57 37.0	355	20.0	1	1	2400	2483	44.7	2.15	N/A	45 72 .0	275.8	0	0	1.0	2.1e- 02
220819 A-09	Bridge water, VA-1	38 22 00.0	-78 57 37.0	355	20.0	1	1	2200	2300	44.7	2.15	N/A	45 72 .0	275.8	0	0	1.0	1.7e- 02
220819 A-08	Bridge water, VA-1	38 22 00.0	-78 57 37.0	355	20.0	1	1	1500	1535	44.7	2.15	N/A	45 72 .0	275.8	0	0	1.0	1.8e+0 0

220819 A-07	Bridge water, VA-1	38 22 00.0	-78 57 37.0	355	20.0	1	1	1450 0	1483 0	44.7	2.15	N/A	45 72 .0	0	0	1.0	1.6e+0 0
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\*Note: Analysis was conducted as if max altitude was constant.



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September 16, 2022  
Page 1 of 2  
NRQZ ID: 220819A

David M. West  
1398 Airport Road  
Bridgewater, VA 22812

Application Reason/Purpose	Prior coordination notification
File Number	220819A
Applicant Name	Leidos, Inc.
Call Sign	['W12XOX']
Site Name or Loc	['Bridgewater, VA-2']
Previous NRAO Coordination No.	
Current NRAO Coordination No.	220819A-06, 220819A-05, 220819A-04, 220819A-03, 220819A-02, 220819A-01

Dear Applicant:

The National Radio Quiet Zone (NRQZ) has reviewed these facilities and determined coordination is not required per NTIA Manual section 8.3.9. The applicant has voluntarily coordinated the facilities described, with results seen below.

The National Radio Quiet Zone (NRQZ) has evaluated these facilities to determine the interference impact on our highly sensitive radio astronomy operations.

The NRQZ Office requests that:

1. This Letter of Concurrence be attached to the FCC application.
2. The FCC application should indicate to the FCC that the assignment should be modified to include the current NRQZ ID in the supplementary details line (e.g. "SUP: NRQZ COORD COMPLETE 2022 SEP 16/NRQZ ID 220819A").
3. The applicant provides the NRQZ Office ([nrqz@nrao.edu](mailto:nrqz@nrao.edu)) with notice of its official filing with the FCC per section 47CFR1.924 (a) (2).
4. The FCC should email the NSF Electromagnetic Spectrum Management Unit ([esm@nsf.gov](mailto:esm@nsf.gov)) when the supplemental details have been modified to include the NRQZ ID as this will facilitate faster approval of the application.



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The National Radio Astronomy Observatory (NRAO) site located at Green Bank, Pocahontas County, WV, has no objection to this frequency assignment.

The Sugar Grove Research Station, the former Naval Radio Research Observatory (NRRO), located at Sugar Grove, Pendleton County, WV has no objections to this frequency assignment.

If I may be of assistance, please feel free to contact me.

Sincerest regards,

Sheldon Wasik  
NRQZ Program Administrator

cc: [nrqz@nrao.edu](mailto:nrqz@nrao.edu), [esm@nsf.gov](mailto:esm@nsf.gov), Sugar Grove Research Station Spectrum Management Group

Attachments: Site Specific Data

This concurrence remains valid provided the data contained within is consistent with the applicant's filing at the Commission. Any discrepancy in system parameters, such as geographical coordinates (Latitude, Longitude, AMSL), antenna height above ground level (AGL), antenna gains or directivity (orientation), channel (operating frequency or frequency bands), emission type, and power requires re-coordination. If the Commission has questions regarding the validity of this or any concurrence, please direct inquiries to [nrqz@nrao.edu](mailto:nrqz@nrao.edu) or 304-456-2107.

NROZ ID	Site Name	Lat N NAD83	Lon W NAD83	MSL (m)	Max TX Pwr (W)	# TX per Sector	# TX per Facility	Freq Low (MHz)	Freq High (MHz)	Bandwidth (MHz)	Max Gain (dBi)	Antenna Model	AGL (m)	Az ° True	Mechanical-DT	Electrical-DT	Max eRPd of facility (W)	NRAO ERPD Limit (W)
220819 A-06	Bridge water, VA-2	38 22 00.0	-78 57 37.0	355	1.0	1	1	5250	5850	44.7	2.15	N/A	6. 0	275.8	0	0	1.0	2.0e+0 7
220819 A-05	Bridge water, VA-2	38 22 00.0	-78 57 37.0	355	1.0	1	1	4400	4940	44.7	2.15	N/A	6. 0	275.8	0	0	1.0	2.9e+0 6
220819 A-04	Bridge water, VA-2	38 22 00.0	-78 57 37.0	355	1.0	1	1	2400	2483	44.7	2.15	N/A	6. 0	275.8	0	0	1.0	1.9e+0 6
220819 A-03	Bridge water, VA-2	38 22 00.0	-78 57 37.0	355	1.0	1	1	2200	2300	44.7	2.15	N/A	6. 0	275.8	0	0	1.0	1.5e+0 6
220819 A-02	Bridge water, VA-2	38 22 00.0	-78 57 37.0	355	1.0	1	1	1500	1535	44.7	2.15	N/A	6. 0	275.8	0	0	1.0	4.8e+0 8



220819 A-01	Bridge water, VA-2	38 22 00.0	-78 57 37.0	355	1.0	1	1	1450 0	1483 0	44.7	2.15	N/A	6. 0	275.8 0	0	0	1.0	4.3e+0 8
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