



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

July 25, 2025
Page 1 of 2
NRQZ ID: 250709I

Leidos, Inc.
Attn: Robert J. Kane
1398 Airport Rd
Bridgewater, VA 22812

Application Reason/Purpose	STA – Applicant Notification to NRQZ
File Number	250709I
Applicant Name	Leidos, Inc.
Call Sign	['WM2XAU']
Site Name or Loc	['Bridgewater, VA-1']
Previous NRAO Coordination No.	240513J
Current NRAO Coordination No.	250709I-01, 250709I-02, 250709I-03, 250709I-04, 250709I-05, 250709I-06, 250709I-07, 250709I-08, 250709I-09, 250709I-10, 250709I-11, 250709I-12, 250709I-13

Dear Applicant:

The National Radio Quiet Zone (NRQZ) has reviewed these facilities in relation to FCC Rules and Regulations 47CFR1.924. The NRQZ Office recognizes these facilities do not fall under FCC Rules and Regulations 47CFR1.924(1) because the operations are either (i) under Special Temporary Authority; (ii) Temporary-Fixed in nature; or (iii) Mobile in nature, thus coordination is not required. However, the NRQZ Office appreciates all voluntary submissions, additional technical details, and notification of frequency assignments.

The NRQZ Office requests the following Special Conditions be added to the license:

1. Operation is subject to, as appropriate, possible scheduling with the National Radio Quiet Zone (NRQZ) point-of-contact Sheldon Wasik, nrqz@nrao.edu, when used within 20 nautical miles of the National Radio Quiet Zone.
2. The NRQZ Office is able to utilize the stop buzzers provided to NRAO, on condition that harmful interference is received at a facility in the NRQZ.

The NRQZ Office asks the following be voluntarily performed:

1. This Letter 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 Office notified, resulting in completed letter on 2025 JUL 25/NRQZ ID 250709I").
3. The applicant provides the NRQZ Office (nrqz@nrao.edu) with notice of its official filing with the FCC.
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.
5. The applicant continues communications with the NRQZ Office on future facilities, although not required by the FCC.
6. Any interference issues of which these facilities are determined to be the source, be addressed and worked through with the NRQZ Office. It is noted not all interference can be avoided, however additional information may be useful to the NRQZ Office. The NRQZ Office respects the proprietary information in applicant technical data throughout the given process.



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7. The applicant is asked to voluntarily reduce emissions to the limits provided in the site-specific information tables below, where feasible.

The National Radio Astronomy Observatory (NRAO) site located at Green Bank, Pocahontas County, WV, acknowledges coordination is not required under FCC Rules and Regulations 47CFR1.924(1) as these facilities do not fall under permanent fixed, and appreciates any voluntary submissions, and encourages the FCC to proceed with licensing as if there were no objections, provided the special conditions are added to the license.

The Sugar Grove Research Station, the former Naval Radio Research Observatory (NRRO), located at Sugar Grove, Pendleton County, WV acknowledges coordination is not required under FCC Rules and Regulations 47CFR1.924(1) as these facilities do not fall under permanent fixed, and appreciates any voluntary submissions, and encourages the FCC to proceed with licensing as if there were no objections, provided the special conditions are added to the license.

The NRAO's records show the applicant's current stop buzzers are:

1. Robert Kane (717) 300-9038
2. Clarence Simpson (540) 831-0261
3. Ryan Simmons (540) 430-0698

Please review the stop buzzer information, and immediately notify NRAO of any changes.

As a result, the NRQZ Office encourages the FCC to move forward in licensing this application, as the applicant is in communications with the NRQZ Office in regards to their operations, and there is no requirement for NRQZ coordination under FCC Rules and Regulations 47CFR1.924.

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

Sincerest regards,

Sheldon Wasik

Sheldon Wasik
Zone Regulatory Services Coordinator

cc: nrqz@nrao.edu, esm@nsf.gov, Sugar Grove Research Station Spectrum Management Group

Attachments: Site Specific Data

It is understood by the NRQZ Office, under FCC Rules and Regulations 47CFR1.924, that operations which are either (i) under Special Temporary Authority; (ii) Temporary-Fixed in nature; or (iii) Mobile in nature do not need to coordinate with the NRQZ, as its classification is not permanent fixed. The NRQZ Office has provided limits that would preclude interference to its sites, asking the applicant to voluntarily meet them if feasible. If the Commission has questions regarding the validity of this or any concurrence, please direct inquiries to nrqz@nrao.edu.

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)
250709I-01	Bridge water, VA-1	38 21 44.000	-78 57 28.000	363 .0	40.0	1	1	72.0	72.0	0.025	14.02	0	20.0	276.1	0	0	1.0	5.9e+05
250709I-02	Bridge water, VA-1	38 21 44.000	-78 57 28.000	363 .0	40.0	1	1	76.0	76.0	0.025	14.02	0	20.0	276.1	0	0	1.0	6.2e+05
250709I-03	Bridge water, VA-1	38 21 44.000	-78 57 28.000	363 .0	40.0	1	1	122.7	122.7	0.025	4.0	0	20.0	276.1	0	0	9.7	9.8e+03
250709I-04	Bridge water, VA-1	38 21 44.000	-78 57 28.000	363 .0	40.0	1	1	123.35	123.35	0.025	4.0	0	20.0	276.1	0	0	9.7	9.8e+03
250709I-05	Bridge water, VA-1	38 21 44.000	-78 57 28.000	363 .0	40.0	1	1	123.55	123.55	0.025	4.0	0	20.0	276.1	0	0	9.7	9.8e+03

250709I -06	Bridge water, VA-1	38 21 44.0 00	-78 57 28.00 0	363 .0	40.0	1	1	80.0	83.0	0.025	14.02	0	20.0	276.1	0	0	1.0	6.5e+05
250709I -07	Bridge water, VA-1	38 21 44.0 00	-78 57 28.00 0	363 .0	40.0	1	1	225.8	225.8	0.025	2.15	0	20.0	276.1	0	0	40.0	4.2e+03
250709I -08	Bridge water, VA-1	38 21 44.0 00	-78 57 28.00 0	363 .0	40.0	1	1	226.8	226.8	0.025	2.15	0	20.0	276.1	0	0	40.0	4.3e+03
250709I -09	Bridge water, VA-1	38 21 44.0 00	-78 57 28.00 0	363 .0	40.0	1	1	231.5	231.5	0.025	2.15	0	20.0	276.1	0	0	40.0	4.5e+03
250709I -10	Bridge water, VA-1	38 21 44.0 00	-78 57 28.00 0	363 .0	40.0	1	1	245.3	245.3	0.025	2.15	0	20.0	276.1	0	0	40.0	5.2e+03
250709I -11	Bridge water, VA-1	38 21 44.0 00	-78 57 28.00 0	363 .0	40.0	1	1	259.2	259.2	0.025	2.15	0	20.0	276.1	0	0	40.0	6.0e+03
250709I -12	Bridge water, VA-1	38 21 44.0 00	-78 57 28.00 0	363 .0	40.0	1	1	262.6 5	262.6 5	0.025	2.15	0	20.0	276.1	0	0	40.0	6.2e+03

250709I-13	Bridge water, VA-1	382144.000	-785728.000	363.0	40.0	1	1	283.3	283.3	0.025	2.15	0	20.0	276.1	0	0	40.0	7.6e+03
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SGRS Site Specific Results:

- Proposal NRQZ#**250709I-9 (freq low 231.5 MHz)**, bandwidth 25 kHz exceeds the threshold. To achieve threshold requirements of an additional 50.6 dB loss, antenna NRQZ#250709I-9 would need to lower the power from 46 dBm to -4.6 dBm.
- Proposal NRQZ#**250709I-10 (freq low 245.3 MHz)**, bandwidth 25 kHz exceeds the threshold. To achieve threshold requirements of an additional 50 dB loss, antenna NRQZ#250709I-10 would need to lower the power from 46 dBm to -4 dBm.
- Proposal NRQZ#**250709I-11 (freq low 259.2 MHz)**, bandwidth 25 kHz exceeds the threshold. To achieve threshold requirements of an additional 49.4 dB loss, antenna NRQZ#250709I-11 would need to lower the power from 46 dBm to -3.4 dBm.
- Proposal NRQZ#**250709I-12 (freq low 262.5 MHz)**, bandwidth 25 kHz exceeds the threshold. To achieve threshold requirements of an additional 49.2 dB loss, antenna NRQZ#250709I-12 would need to lower the power from 46 dBm to -3.2 dBm.

Site ID	Bearing of Antenna (DEG)	Mechanical + Electrical Down Tilt (DEG)	Bearing to SG (DEG)	Elevation to 1st Obstacle (DEG)	Off-axis Angle Azimuth (DEG)	Off-Axis Angles Elevation (DEG)	Main Beam Gain (dBi)	Antenna Gain towards Sugar Grove (dBm)	Maximum Allowed ERP(dBd) towards Sugar Grove (WATTS)	Distance to 1 st Obstacle (km)	Height of 1 st obstacle (m)
250709I-9	Omni	Omni	301	1.6	Omni	Omni	2.15	2.15	.00033	26.7	1174
250709I-10	Omni	Omni	301	1.6	Omni	Omni	2.15	2.15	.00038	26.7	1174
250709I-11	Omni	Omni	301	1.6	Omni	Omni	2.15	2.15	.00044	26.7	1174
250709I-12	Omni	Omni	301	1.6	Omni	Omni	2.15	2.15	.00046	26.7	1174