

JHU/APL STA Application

- Experiment Point of Contact:
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- Background: This Special Temporary Authority (STA) License Application covers research initiated under the contract N00024-22-D-6404 / N00024-25-F-8143.
- Objective: Testing of sensor system, and command and control architecture, including the EchoShield sensor.
- Experiment Description: The Johns Hopkins Applied Physics Laboratory (JHUAPL) is a University Associated Research Center (UARC) that conducts basic research for the United States Government (USG)
- Location Details:
 - 39.243°N , 76.972°W
 - 13240 Greenberry Ln, Clarksville MD 21029
- Emission Details (include for each signal if multiple)
 - Peak output power: 52dBm/160W
 - Peak ERP: 79dBm/49dBW
 - Frequency of operation: 16.4 – 16.6 GHz
 - Frequency Tolerance: +/- 10ppm
 - Signal Bandwidth: 50MHz
 - LFM pulse-doppler
 - 47 CFR Part 87: 59M7Q3N
 - 47 CFR Part 90: 57M8Q3N
- FCC License Request Dates:
 - 09/03/2026– 03/03/2027
 - Monday – Friday, 0800- 1600



Equipment Description:

- Antenna >6m above ground? N
- Directional? Y
- Manufacturer: Echodyne Corp.
- Model #: EchoShield 700025-200-200
- Polarization: Horizontal linear
- 3-dB Beamwidth: 8° Az, 4° El
- Az Beam FOV (relative to North): 125° - 210°
- El Beam FOV: 0° - 70°

