

JHU/APL STA Application

- Experiment Point of Contact: Harry Haldren, harry.Haldren@jhuapl.edu, (240) 592-4972, (240) 302-6596
- Background: This Special Temporary Authority (STA) License Application covers research initiated APL IR&D funding
- Objective:
 - Verify transmission of HF from dipole antenna
- 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)
 - 5 transmitters, 1 receiver
 - Transmitter nodes are airborne & mobile, with radius of operation of no more than 400 ft
 - Airborne platforms operate at low altitude 100-200 ft
 - Receiver is fixed on the ground
 - Experiments:
 - Each transmission experiment will take no more than 10 minutes total
 - There will be no more than 10 experiments per day of testing
- Location Details:
 - Lat/Lon Center: 39.243, -76.974
 - Deviation from center will be no more than 400 ft radius
 - Street Address: Way Back Farm, 13250 Greenberry Ln, Clarksville, MD 21029
- Emission Details (include for each signal if multiple)
 - Peak output power: 1 W per transmitter
 - Peak ERP: 1 W per transmitter
 - Frequency of operation: 9-11 MHz
 - Signal Type/description: CW tone only
- FCC License Request Dates: 9/20/2026-3/20/2026

Antenna Description:

- Antenna >6m above ground? airborne
- Directional? N
- Manufacturer: APL developed vertical dipole of length 50 ft

