

EXHIBIT: TWO-PHASE SPECTRUM DECONFLICTION & INTERFERENCE MITIGATION

Applicant: Ursa Major Technologies

Project/Program: HAVOC – Holy Smokes

Requested Operational Bands:

Band Segment 1: 2250.0 MHz – 2300.5 MHz (24M0G1D, 20W TPO, 10W ERP)

Band Segment 2: 2300.5 MHz – 2350.0 MHz (24M0G1D, 20W TPO, 10W ERP)

Station Class: MO (Mobile)

1. Phase I: Pre-Flight Pad Testing & Active Stop-Buzzer Protocol

Prior to launch, the missile telemetry system will undergo live range compatibility and tracking verification checks while secured on the launch pad. During this pre-flight testing phase, the ground operations engineering team retains direct remote command and control access to the vehicle's avionics suite.

In the unlikely event that localized interference is reported by NASA Wallops Range Safety, adjacent federal facilities, or satellite ground networks during pad testing, the ground operations engineer serves as the active "stop-buzzer" point of contact. The engineer will instantly terminate all RF power from the Quasonix TIMTER transmitter via the ground command link.

2. Phase II: Airborne Operational Constraints & Time-Bounding

Upon ignition and launch, the vehicle transitions to an un-commanded, autonomous flight profile. Due to tactical payload constraints, no active RF uplink command channel is integrated into the airborne telemetry deck. To mitigate the absence of a real-time remote stop-buzzer during flight, transmissions are strictly time-bounded to a single suborbital trajectory lasting approximately 180 seconds from launch to ocean splashdown.

3. Range Coordination & Scheduling

The specific discrete center frequency used within the requested 2250–2300.5 MHz or 2300.5-2350 MHz tuning band will be assigned directly by the NASA Wallops Range Spectrum Management Office. Because the over-the-air testing is actively controlled on the pad and the subsequent airborne flight is under 3 minutes, executing this mission within an allocated range window ensures zero probability of harmful interference to localized tracking assets.

Designated Range & Pad Testing Contact:

Name: Quintin J. Medina

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