

Exhibit 1  
Description of STA Requirement

This experimental STA application is for the demonstration of Liberty Defense's HEXWAVE UWB surveillance system to potential investors at the company's Boston, Massachusetts location. The HEXWAVE system will be operated in compliance with the power levels set forth in Section 15.511 of the FCC's rules, 47 C.F.R. § 15.511. Because a waiver of the FCC's certification measurement rules is required to equipment authorize and operate the system, operation of the system for the purpose of demonstrations is not permitted under Section 2.805 of the FCC's rules, 47 C.F.R. § 2.805, without an experimental license. Although Liberty Defense filed a request for the required waiver, and OET has placed the request on Public Notice (*see* DA 19-706 and DA 19-898), OET has not yet acted on the waiver request. Therefore, even though Liberty Defense understands that action on the pending waiver request may be imminent, the company nevertheless is seeking this experimental license to ensure that any delay in OET action on the waiver request will not prevent Liberty from demonstrating the HEXWAVE system to investors during upcoming, prescheduled investor meetings.

The HEXWAVE system requires a waiver of the FCC's requirement that the emissions from UWB devices employing hopped, stepped, or sequenced operation be measured with the hop, step, or sequenced function stopped. The required waiver that Liberty Defense has requested is similar to a waiver previously granted to MBOA-SIG (*see* FCC 05-58). Prior to OET action on Liberty Defense's pending waiver request, Liberty Defense is unable to demonstrate the HEXWAVE system to its investors in compliance with the requirements of Section 2.805(d)(1). This FCC rule requires that "[t]he radio frequency device shall be operated in compliance with existing Commission rules, waivers of such rules that are in effect at the time of operation, or rules that have been adopted by the Commission but that have not yet become effective." Thus, Liberty Defense instead must operate the device during its upcoming investor demonstrations under the authority of Section 2.805(b), which states that "[o]peration of a radio frequency device prior to equipment authorization is permitted under the authority of an experimental radio service authorization issued under part 5 of this chapter."

Consistent with Liberty Defense's previously granted experimental license to conduct experimental testing at its own facility (*see* Call Sign WK2XAT), Liberty Defense will label each HEXWAVE unit with the following legend: "For evaluation only; not FCC-approved for sale, marketing, or other distribution to the general public." Liberty Defense also is aware that, pursuant to Section 5.84 of the FCC's rules, 47 C.F.R. § 5.84, its experimental operations of the HEXWAVE system cannot cause harmful interference to other services and must accept harmful interference.