

Test Site Description and Testing Restrictions

The testing site at the Ethan Allen Firing Range in Jericho, Vermont is a National Guard live fire range located in a very low density populated area. The long distance from the range to any significant population centers, residential housing, commercial buildings, hospitals, etc., is significant, which is why the area was selected for live fire exercises and artillery training. The range has been situated in such a manner that all live fire exercises are directed from a position at the base of the valley towards the surrounding high ground to the front. While the range is of sufficient depth and width not to endanger human life or property, its positioning, with high ground rising up to elevations of 1400 to 4000 feet in three different directions, also affords protection against errant rounds impacting beyond the intended target area. Such an environment, creating a three-sided box within which to test our technology, is an ideal location.

Despite the testing site's isolation and our technology's limited range of influence (approximately 1 kilometer), other measures will be taken to ensure operation of the device can in no way cause any interference. The three meter parabolic dish will be positioned at an elevation of five meters off the ground and aimed at an angle of 90 degrees. Aiming the dish in such a manner, plus operating the device with a very narrow 1.5 degree beam divergence, will ensure impact occurs at a distance of one kilometer from the device at the point where the beam intersects with the ground rising up to it. Additionally, there will be some shielding provided in the form of a Faraday cage positioned around the back half of the device to prevent side lobe emission.

We believe the natural barriers around the test site coupled with the operational restrictions on the device we will be imposing will prevent interference of any sort from occurring. It should be noted as well in operating our device under an STA granted for a similar test earlier this year and doing so in an environment much more developed and with very limited natural barriers, no interference of any sort was generated.