

Experiment Explanation:

This experiment consists of 2 low power radar units with TPO of no more than 3 Watts. They will be mounted on structures no more than 5 meters above the ground. They will be staring into mountainsides (Mount Superior and Flagstaff Peak) in Little Cottonwood Canyon. They will have a near range to target of 500m with a far range not exceeding 2km. The two radars will operate in a total 5 km radius.

The radars are owned by the Utah Department of Transportation. They will be used for snow pack classification, avalanche forecasting and avalanche detection. The final intent is to mitigate the dangers involved in avalanche prediction and most snow sports. Niivatech, Inc. will operate the radar and monitor the data. The radar model has been tested for UAS use and has shown no interference to other entities broadcasting in this frequency band. UDOT's use of the radar in low power mode and pointing at the mountain shows it will continue to operate without interfering.