

From: Craig Mauldin

To: Behnam Ghaffari

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Subject: FCC File No. 0617-EX-PL-2015

Message:

RAYTHEON IS CONDUCTING EXPERIMENTAL TESTING OF THE BAMBOO CAY RADAR TO COLLECT CLUTTER AND TARGET DATA IN L-BAND (1380 MHz), S-BAND (3040 – 3320 MHz), AND X-BAND (9600 – 9690 MHz) WITH CALIBRATION AT 9600 MHz. FREQUENCY 1380 MHZ AT 20 MHZ BANDWIDTH WILL KEEP US ABOVE FREQUENCY 1370 AND BELOW 1390 MHZ. THE L-BAND ANTENNA IS A 6 FOOT DIAMETER PARABOLIC REFLECTOR AT 21 DB GAIN 8.7 DEGREES BW. WE PLAN TO TRANSMIT FROM RAYTHEON CAMPUS BUILDING E-1 LATITUDE 334550.04N LONGITUDE 1182323.92W TO BUILDING R-9 LATITUDE 335547.33N LONGITUDE 1182311.67W AND FROM BUILDING E-1 TO A HILL TOP IN PALOS VERDES LATITUDE 334722.00N LONGITUDE 1182407W.

- ? Both radar systems will be located in RSIL-1 on South Campus
- – Radars will be ~10m apart
- ? The MTS test target will be located on the roof top of R9 (North Campus)
- ? Distance between North and South Campus is ~1.8 km
- ? Radar 1 will be located in RSIL-1 on South Campus
- ? Radar 2 will be located in RSIL-2 on South Campus
- ? Radars will be ~100m apart
- ? The MTS test target will be located on the radar site in Palos Verdes (PV)
- ? Distance from RSILs to PV is ~20 km
- ? PV cliff also provides a high clutter environment for low-MDV testing