Correspondence Reference Number: 14785

3. The requested frequency band 2400-2417 MHz is allocated to AMATURE (Amateur) operation as primary services. How do you purpose to protect operations on this band?

Given the geographical location of the Lockheed Martin test facility, which is located within a remote undeveloped swamp located in the interior 4,600 acre rectangular portion of the 290,000 acre Deseret Cattle and Citrus Ranch, interference to amateur services is very unlikely. The layout restricts the placement of amateur equipment close to the ETS Radar. From the Lockheed Martin property, the Deseret Cattle and Citrus Ranch continue south for additional 5-miles, east for additional 9-miles, and north for additional 5-miles. To the west is another Farmland Reserve property which continues for additional 6-miles. Aside from the remoteness of the test facility the 18 to 21-m tree-lined ellipse surrounding the paved ground-reflection plane of the LM radar provides a natural formation that absorbs transmitted radiation thus providing additional shielding from the antenna to other systems. Additionally the antenna is highly directional with good side and back lobe reductions.

The radar will be operated at a system PRF of 70 KHz. The pulse modulated CW signal will have a pulse width of 55 nanoseconds. This yields a system duty cycle of 0.385%. The Radar Cross Section system operates in a frequency list mode. LM provides the following POC in case any harmful interference to any FCC licensed station is detected and if that is the case the frequency can be immediately eliminated from use.

POC:
Robert Reim Telephone Numbers: 407 568 7100 or 7050