

AMENDED DESCRIPTION OF OPERATIONS

Lockheed Martin Corporation (“Lockheed Martin”) hereby seeks amendment to its request for authority under Part 5 of the Commission’s Rules to permit it to conduct research into communications between static machines and mobile machines, to include uncrewed aerial systems. Lockheed Martin is amending its application **to update the desired n78 frequency band to 3600-3700 MHz.**

The subject research program is designed to utilize this portion of the cellular n78 band in anticipation of next generation wireless communications architectures being developed for this band for both military and other customers.

All operations will be conducted exclusively at Lockheed Martin’s Waterton campus, well into the private property of the campus. Operational areas will be marked appropriately to minimize any potential for radiation hazard exposure to personnel.

Outdoor testing is directional and will be conducted in a valley with 300 foot natural hillsides around it. This environment will significantly reduce any potential for interference to other users of the spectrum.

For directional antenna operations, the following parameters apply:

(a) Width of beam in degrees at the half-power point:	65 ± 10°
(b) Orientation in horizontal plane:	0° or 270°
(c) Orientation in vertical plane:	0°