

July 27, 2010



To whom it may concern,

Vehicle mounted on-the-move SATCOM systems are needed by the US Army and Marines. Several government procurements are currently underway to obtain these SATCOM systems for deployment in current initiatives.

L3 is seeking a **permanent VSAT/Blanket** FCC license for the operation of its vehicle mounted on-the-move SATCOM system.

- L3/Linkabit MPM-1000 Modem and Controller Assembly
- L3/Datron FSS-4180-LP Antenna Assembly
 - Non-Compliant with 47CFR25.209
- Ku Band (14-14.5 GHz, 11.7-12.2 GHz)
- All CONUS operation
- Multiple Satellites
- Mobile operation

The system utilizes advanced antenna pointing technology, spread spectrum modulation, and centralized and distributed controls to ensure that interferences to others meet the requirements of the FCC (and ITU). Extensive verification of this system has been performed since June/2005 under an FCC experimental license (call sign **WD2XSJ**) and the use of AMC-9, AMC-2, and AMC-5. A permanent single earth station license was granted on 3/16/2009 (call sign **E060390**). A complete technical brief describing the system is including in our filing.

L3 has developed methods to protect adjacent satellite operations. These methods have taken several years to develop and refine and have been verified in laboratory and operational conditions. A conservative analysis has been performed and has and will continue to be used to protect adjacent satellite operations. Power Spectral Density (PSD) into the antenna shall be managed within the required FCC (and ITU) limits by controlling the transmit power and/or utilizing spread spectrum modulation. Interference effects to others will be less than or equal to those of an FCC 25.209 compliant antenna. The system is compliant with FCC 25.226.

Please feel free to contact me with any questions or clarifications.

Regards,

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