

From: Jeffrey Luban

To: Anthony Serafini

Date: July 25, 2003

Subject:

Experiment modification 0043-EX-ML-2003

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Message:

Dear FCC,

This email is in regards to the addition of permission to operate on 161.975 MHz (AIS1, Channel 87B) and 162.025 MHz (AIS2, Channel 88B) in Liverpool, NY.

This update to permit fixed-station operation, will not to exceed 10 Watts EIRP, from the Liverpool Electronics Park VHF FM antenna, and permission to operate the mobile transponder sets, limited to 12.5 Watts EIRP, in the immediate vicinity of the Liverpool, NY facility at Electronics Park, on the AIS1 and AIS2 frequencies.

Lockheed Martin NE&SS-Radar is the USCG systems integrator for the Ports and Waterways Safety System (PAWSS) contract, as well as a variety of international contracts. Systems integration work includes performing system Factory Acceptance Testing (FAT) in Liverpool, NY.

AIS is a basic part of new PAWSS installations. This modification allows operation on AIS1 and AIS2, both for base stations and portable transponder sets, to perform adequate system testing prior to final site installation.

The Liverpool facility is land-locked, not near a major navigable waterway. The nearest significant body of water is Lake Ontario, 30 miles away, with USCG maintaining Station Oswego in Oswego, NY. The combination of relatively low antenna height, low power output, distance, and intervening topography (hills) removes any potential for interference with operation of Station Oswego.

Operations on AIS1 and AIS2 will be limited strictly to AIS transponder testing, for vessel traffic system integration and test purposes. The international AIS specification limits transceivers to a maximum of 12.5W; the base station has losses associated with coaxial cable runs that will limit actual EIRP to under 10W, while the mobile transponders will have no more than 0dBi antennas.

Sincerely,

Jeff Luban