

Date: 29 November, 2011

Attn: Federal Communications Commission
Experimental Radio Service

Subject: Exhibit 1
Government Project Information

Ref: File TBD
Call Sign TBD

Dear Sirs,

Lockheed Martin Sippican, Inc requests this FCC license to allow transmission of frequencies to verify the proper operation of the AXCP Ocean Probe during routine Factory Acceptance and Developmental testing, to supply AXCP Probes to the National Oceanic and Atmospheric Administration (NOAA). This Ocean Probe is used to profile water velocity and temperature.

Lockheed Martin Sippican, Inc will be testing AXCP Ocean Probes as part of a Quality Assurance sampling program to monitor and maintain the quality of the products delivered to the NOAA.

AXCP Ocean Probes produced by Lockheed Martin Sippican, Inc have a transmitter with an integral monopole antenna that which points toward the sky. In normal operation seawater acts as the ground plane.

Station Location

7 Barnabas Rd
Marion MA 02738
United States
41⁰ 42' 35.09" lat
70⁰ 46' 23.58" long
Ground elevation 10 meters above sea level
Receive antenna elevation 13 meters above ground elevation and is less than 6 meters above the roof.
The New Bedford airport is the closest airport, 15.9km away from the launch site.

AXCP Transmitter

3 Fixed transmit carrier frequencies:

170.5MHz
172.0MHz
173.5 MHz

Frequency tolerance +/- 0.2MHz

Mean TX Power 750mW (28.75dBm)

Emission Designator 225K0F3D

FM with a maximum modulating frequency of 2.30 kHz

Peak Deviation 75.0 kHz

Emission Occupied BW 225.0 kHz

Omni directional Whip antenna

Main beam gain 2.0 dBi

Horizontal Beamwidth 360 degrees
Vertical Beamwidth 60 degrees off horizon

Please do not hesitate to contact me with any questions concerning this request.

Regards,

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