

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 403MHz LMS6 Radiosonde during routine Factory Acceptance and Developmental testing under contract number F04701-01-C-0001 subcontract 59643LM, to supply Ground Systems and Radiosondes.

In support of this contract Lockheed Martin Sippican, Inc will be testing Radiosondes as part of a Quality Assurance sampling program to monitor and maintain the quality of the delivered products. In addition, development testing of Radiosondes will be conducted to evaluate sensor improvements.

Lockheed Martin Sippican, Inc will produce two Radiosonde model numbers, 1848-612 and 1649-311, which utilize the same transmitter and antenna. The Radiosonde transmitter uses a monopole antenna that directs transmitted power towards the ground.

During testing, the Radiosondes are attached to a weather balloon and deployed from the Lockheed Martin Sippican, Inc facility at 7 Barnabas Road, Marion MA. The weather balloon can travel a ground distance of 250km and reach a height of 30km. The average duration of the deployment is 135 minutes. The expected number of deployments is on the order of 5 per month.

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.

Radiosonde Transmitter

16 Fixed transmit carrier frequencies (MHz): 400.250, 400.625, 401.000, 401.375, 401.750, 402.125, 402.500, 402.875, 403.250, 403.625, 404.000, 404.375, 404.750, 405.125, 405.500, 405.875

Frequency tolerance +/- 30ppm

Mean TX Power 70.8mW (18.5dBm)

Emission Designator 16K8F1D

FSK with a maximum modulating frequency of 4.8 kHz

Emission 3dB BW +/- 5.0 kHz

Emission 20dB BW +/- 12.7 kHz

Omnidirectional antenna

Main beam gain 2dBi

Horizontal Beamwidth 360 degrees

Vertical Beamwidth \pm 84 degrees

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

Regards,

Philip Kelley

Engineering Staff Engineer

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