

January 25, 2000
2-L200-AS00-077
Page 1 of 2



Federal Communications Commission
Experimental Radio Service
P.O. Box 358320
Pittsburgh, PA 15251-5320

TIMELY ACTION REQUIRED
LICENSE REQUIRED BY: April 25, 2000

Subject: Request for Special Temporary Authority (STA)

This request for an STA is submitted in accordance with the FCC Rules, Part 5.56.

1. Name and address:

US Sea Launch
P.O. Box 32889
Long Beach, CA 90832-2889

2. Need for special action: Sea Launch is required to demonstrate that the re-radiation system is fully operational before launch. The test of the re-rad link is essential because the spacecraft RF link is a launch commit criteria for Hughes at the launch site.

3. Type of operations: With the rocket erect and in port, at our Long Beach Facility, the re-radiation system located on the rocket will transmit to the Assembly and Command Ship(ACS), which will be 6.5km off shore.

4. Purpose of operation: To test the satellite(Thuraya) systems before departing for launch.

5. Time and date: The test will be conducted sometime during the period of April 25, 2000 through Oct. 22, 2000.

6. Class of station: MO
Nature of Service: XT

7. Location: The testing will be conducted between the Launch Platform docked at our facility at Long Beach, CA and the Assembly and Command Ship(ACS) located approximately 6.5km from shore.

January 25, 2000
2-L200-AS00-077
Page 2 of 2

8. Equipment

Manufacturer:	Model :	Number of units:
M/A COM		2
Malibu Research		1

9. Frequency(ies) desired: 3.612 / 3.614 GHz for telemetry
6.476 GHz for command

10. Power Output to Antenna: 117mW. (Launch Vehicle-ACS)
100W(ACS-Launch Vehicle)

11. Emission: 100KG9D for the 3 GHz frequencies
1M30F9D for the 6.476 GHz frequency

12. Antenna Height: 85m(Antenna height above water level on Launch
Platform)

Antenna Type: Cavity backed Spiral

Gain: 4dB

Beamwidth: 40deg(fullbeam)

Polarization: Vertical

12a. Antenna Height: 42m(above water level)

Antenna Type: 2' Parabolic reflector

Gain: 36 dB

Beamwidth: 3deg(fullbeam)

Polarization: Linear

Should additional information be required, please contact Bill Gjertson at (425) 393-2557.



Alan D. Stewart
Director of Launch Services, BCSC
Sea Launch Project

Enclosures: FCC Form 159

