

0317-EX-ST-1999

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



TIMELY ACTION REQUIRED
LICENSE REQUIRED BY: November 1, 1999

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 systems before departing for launch.
5. **Time and date:** The test will be conducted sometime during the period of November 1, 1999 through February 29, 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.
8.

Equipment Mfg.	Model:	Number of units
M/A COM		2
Malibu Research		1
9. **Frequency(ies) desired:** 7.0115/7.0125 GHz for telemetry
5.180/5.244 GHz for command
10. **Power Output to Antenna:** 117mW. (Launch Vehicle – ACS)
100W (ACS – Launch Vehicle)

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11. **Emission:** 200KG9D for the 7 GHz frequencies
1M00F9D for the 5 GHz frequencies



12. **Antenna Height:** 85m (Antenna height above water level on Launch Platform)
Antenna Type: Cavity backed Spiral
Gain: 4dB
Beamwidth: 40deg (fullbeam)
Polarization: V

- 12a. **Antenna Height:** 42m (above water level)
Antenna Type: 2' Parabolic reflector
Gain: 36dB
Beamwidth: 3deg (fullbeam)
Polarization: Linear

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

A handwritten signature in black ink, appearing to read 'Alan D. Stewart'.

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

Enclosures: FCC Form 159