

0318-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 obtain a license which permits Hughes Spececraft to "free radiate" within our fully enclosed Payload Processing Facility, in Long Beach. The shielding effectiveness chart, from 1GHz-18GHz, for the Payload Processing Facility-Encapsulation Cell was provided in an application (File Number: 0203-EX-ST01999) submitted for the Highes-DirecTV spacecraft.
3. **Type of operations:** Hughes Spacecraft will transmit from spacecraft (ICO) antennas, demonstrating operation prior to encapsulation.
4. **Purpose of operation:** To test the satellite antenna system before encapsulation.
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 inside our payload processing facility in Long Beach, CA.
8. **Equipment Mfg.** Hughes Spacecraft
Model: ICO
Number of units 1
9. **Frequency(ies) desired:** 7.0115/7.0125 GHz for telemetry
5.180/5.244 GHz for command
10. **Power Output to Antenna:** 4 Watts for the 7.0115/7.0125 GHz frequencies
4 Watts for the 5.180/5.244 GHz frequencies

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

12. **Antenna Height:** 1m & 6m
Antenna Type: Pipe and Bicone
Gain: 5dB
Beamwidth: 60deg (fullbeam)
Polarization: V



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