

0203-EX-ST-1999

May 20, 1999  
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Federal Communications Commission  
Experimental Radio Service  
P.O. Box 358320  
Pittsburgh, PA 15251-5320

**BOEING**

TIMELY ACTION REQUIRED  
LICENSE REQUIRED BY: JULY 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 Spacecraft to "free radiate" within our Payload Processing Facility, in Long Beach.

3. Type of operations: Hughes Spacecraft will transmit from spacecraft 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 July 15 1999 through August 31 1999.

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

| Manufacturer:     | Model :    | Number of units: |
|-------------------|------------|------------------|
| Hughes Spacecraft | DirecTV-1R | 1                |

9. Frequency(ies) desired: 12.69825 GHz for telemetry  
12.69925 GHz for telemetry  
17.305 GHz for command

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10. Power Output to Antenna: 4 Watts for the 12 GHz frequencies  
5 Watts for the 17 GHz frequency

11. Emission: 128KP9D for the 12 GHz frequencies  
630KP9D for the 14 GHz frequency

12. Antenna Height: 1m & 6m  
Antenna Type: Pipe & Bicone  
Gain: 5dB  
Beamwidth: 60° (Fullbeam)  
Polarization: V

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

*Mark A. Name for*

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

Enclosures: FCC Form 159



# FAX COVER SHEET

**FAX TO:**

**Name:** Mr. Carl Huie  
**Company:** FCC  
**Phone:** 202 418 2430  
**FAX #:** 202 418 1918  
**Mail Stop:** \_\_\_\_\_

**FROM:**

**W. G. (Bill) Gjertson**  
**BCSC, Sea Launch Program**  
**Phone:** (425) 393-2557  
**Fax:** (425) 477-5777  
**Mail Stop:** 6E-62

**Date:** June 22, 1999**Number of Pages  
including Cover Sheet**1

Good Afternoon Mr. Carl Huie,

**SUBJECT**

1. The payload processing facility referred to in our request, File number: ~~0200-EX-STA-99~~ in which the Spacecraft transmitter and a transmitter transmitting to the spacecraft will be tested was measured and the RF attenuation of the building was determined to be a minimum of 30 dB at frequencies from 6- 18 GHz. See the attached graph (page 2). THIS SHOULD BE: ~~0203-EX-STA-99~~

2. With reference to our STA, your file number ~~0203-EX-STA-99~~, item 7. Location is incorrect. The location of the transmitter at 17.305 GHz is on the ACS 6.5 km from the other transmitter at 12.69825 and 12.69925 GHz. on the launch vehicle transmitting to the ACS. Please consider this correction in your processing of this STA. THIS SHOULD BE ~~0201-EX-STA-99~~

3. Per your telecon:

Sea Launch memo 705 is File # 0201-EX-STA-99

Sea Launch memo 704 is File # 0200-EX-STA-99

Sea Launch memo 706 is File #0203-EX-STA-99

Thank you for the correction. I am sorry about my mistake.

*Bill Gjertson* 6/22/99  
 Bill Gjertson

Sea Launch EMC Frequency Coordinator  
 425-393-2557

P. S. I will call AFTER 2 PM EST

# Encapsulation Cell

