

0201-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 demonstrate that the re-radiation system is fully operational before launch. The test of the re-read 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 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 building at our Long Beach facility.

8. Equipment

Manufacturer:
M/A Com

Model :

Number of units:

2

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

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

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

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

Antenna Type: Cavity Backed Spiral
Gain: 4dB
Beamwidth: 40° (Fullbeam)
Polarization: V

Antenna Height: 42m (above water level)
Antenna Type: 2' Parabolic Reflector
Gain: 36dB
Beamwidth: 3° (Fullbeam)
Polarization: Linear

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

Man L. Name for

Alan D. Stewart
Director of 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 EMCFrequency Coordinator
 425-393-2557

P. S. I WILL CALL AFTER 2 PM EST