

53560-98



SEA LAUNCH

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Boeing that all
has been placed for
405-355 10-30-98*

FAX

COVER SHEET

(PRL 1-649)

*Send orig
I am fms
I am nms*

FAX TO:Name: Mr. Carl HuieCompany: FCCPhone: 202 418 2430FAX #: 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: October 23, 1998Number of Pages
including Cover Sheet1**SUBJECT**

Good Afternoon Mr. Carl Huie,

The following information supplements the information contained in the STA submitted to you on 16 October 1998 :
Some of the following information is repeated for clarification.**Transmitter Frequencies:**

- A. 5850-6425 MHz (INTELSAT)
- B. 7194.5, 7494.5, 7355.5, 7655.5 MHz (LOS Radio)
- C. 5620 MHz (Weather Radar)
- D. One frequency between 400 - 406 MHz. (Meteorological Balloon)
- E. 768.97 MHz (Kvant Command Transmitter)
- F. 2272.5 MHz (S-Band Beacon)

Power Output to Antenna:

- A. 250 W for INTELSAT
- B. 5 W for LOS
- C. 7500 W for the Weather Radar.
- D. 200 mW for the Meteorological Balloon
- E. 200 W (KVANT Command)
- F. 5 W (S-Band Beacon)

Emission:

- A. 8M40G1E
- B. 1M75G1E
- C. 32M0P0N
- D. 160KF3D
- E. 10M2G2D
- F. 500KP0N

ERP

- A. 10.6 MW ERP - 5850-6425 MHz (INTELSAT)
- B. 24.5 KW ERP - 7194.5, 7494.5, 7355.5, 7655.5 MHz (LOS Radio)
- C. 133 MW ERP - 5620 MHz (Weather Radar)
- D. 0.2 W ERP - 400 - 406 MHz. (Meteorological Balloon)
- E. 503 Kw ERP - 768.97 MHz (Kvant Command Transmitter)
- F. 46.5 W ERP - 2272.5 MHz (S-Band Beacon)

Balloon Transmitter Height = 0 ft elevation to 120 kft. Max.

36,600 M ft

Bill Gjertson

Sea Launch EMC/Frequency Coordinator
425-393-2557

Bill Gjertson 10/23/98

10.31.98

S-3560-98

D am orig

D probs: re coord @ mva eth
D need exp's

October 14, 1998

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

TIMELY ACTION REQUIRED
LICENSE REQUIRED BY: NOVEMBER 2, 1998

Subject: Request for Special Temporary Authority (STA)

This request for an STA is submitted in accordance with the FCC Rules, Part 90.145.

1. Name and address:

US Sea Launch
2700 Nimitz Road
Long Beach, CA 90802-1047

Attention: Sheryl A. Berner

- 2. Need for special action:** Sea Launch has a requirement to test the LOS microwave telephone system to ensure that the two ships will be able to keep communicates between the ships at the launch site. This test has to be done at sea somewhere with approximately the same sea conditions as at launch sites.

3. Type of operations:

- A. INTELSAT - 8M40G1E OK - (com search)
B. LOS - 1M75G1E
C. WX Radar - 32M0P0N
D. Meteorological Balloon - 160KF3D
E. Launch vehicle command link - 10M2G2D
F. S-Band test - 500KP0N

- 4. Purpose of operation:** To test microwave telephone system functions correctly. During this period they would also like to run sea tests on the INTELSAT, WX Radar, Meteorological balloon, Launch vehicle command link, TDRSS link.

- 5. Time and date:** The tests will be conducted for a week sometime during the period of November 2 1998 through December 31 1998.

- 6. Class of station:** MS
Nature of Service: XD

11-1-98
12-31-98

pt 73

R *

coord w/ R Muehl

TV 62, 63, 64

7. **Location:** The testing will be done approximately 50 miles off the Monterey, CA coast at buoy 46042 at coordinates 36.75N 122.42W.

8. **Equipment**

Manufacturer:	Model :	Number of units:
A. MCL Inc.	MX9011-3.3C24BXF	2
B. Nokia	DMR7000	4
C. Kavouras	TDR3070	1
D. Vaisala	RS80-15G	1
E. RNIKP	IU2.017.176, 21A03 & VB-162-01	1 ea
F. Aydin Vector	ST-805	1

9. **Frequency(ies) desired:** A. 5850-6425 MHz ✓
 B. 7194.5, 7494.5, 7355.5, 7655.5 MHz ✓
 C. 5620 MHz ✓
 D. One frequency between 400 - 406 MHz. ✓
 E. 768.97 MHz (du 63) 62, 64
 F. 2272.5 MHz

10. **Power Output to Antenna:** A. 250 W for INTELSAT
 B. 5 W for LOS
 C. 7500 W for the Weather Radar.
 D. 200 Mw for the Meteorological Balloon
 E. 200 W
 F. 5 W

11. **Emission:** A. 8M40G1E
 B. 1M75G1E
 C. 32M0P0N
 D. 160KF3D
 E. 10M2G2D
 F. 500KP0N

12. **Antenna Height:**

Antenna Type: A & C. Parabolic Dish for INTELSAT and WX radar
 F. Horn, pointed from the Launch Platform to the ship

Gain: A. 46.3 dB for INTELSAT
 B. 7 dB for LOS
 C. 42.5 dB for WX radar
 F. 9.7 dB

Beamwidth: 1.2° for WX radar

Polarization: V

160 km radar search = 91
 400-406
 402-406 = 6

cond
w/req

405.75
GMF

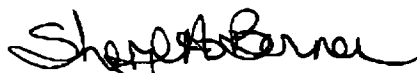
ERP?

max height

768.97
 + 5.1
 774.07 - (664)
 763.87 (662)

543 (10w ERP) 24dB gain ant?

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



Sheryl A. Berner

Enclosures:
FCC Form 159
COMSEARCH Coordination