

Satellite Pre-Launch Readiness Testing

Sea Launch LLC
2700 Nimitz Road
Building 3, 2nd Floor
Long Beach, CA 90802

Submitted: 1/8/2008
On behalf of
Sea Launch LLC

by

Ronald E Center
The Boeing Company
Frequency Management Services MC: 2T-22
P.O. Box 3707
Seattle, WA 98124-2207
206-544-6583 Office
206-544-6592 Fax
866-248-1493 Toll Free

Why an Experimental STA is Necessary

An experimental license is required to support pre-launch readiness testing of a production satellite prior to movement to an equatorial launch site.

Purpose of Operation

The purpose of this STA is to support pre-launch readiness testing of the Galaxy 18 satellite.

Test Description

Prior to movement to the equatorial launch site, the Galaxy satellite will be tested as part of the pre-launch readiness test requirement. The testing will occur at two locations in the Long Beach, CA, harbor. The first test location will be at the Payload Processing Facility, and the second is between the ships moored at the Long Beach pier.

The SS/L Spacecraft will free radiate in the Payload Processing Facility in order to verify system operability and pre-launch readiness. This test is conducted intermittently at this pier side facility before the Spacecraft is encapsulated and loaded on board the MS Odyssey launch platform. The Payload Processing Facility has a minimum of 20 dB attenuation at these Spacecraft Frequencies.

Once loaded on board the MS Odyssey, the SS/L Spacecraft will be free radiated between the MS Odyssey and the MS Sea Launch Commander ships while moored at the pier, in Long Beach. This test will verify pre-launch readiness between the encapsulated SS/L Spacecraft, the MS Odyssey launch platform and the MS Sea Launch Commander, and must be completed prior to sailing to the equatorial launch site. This test is conducted once during a 12 hour period prior to sailing.

The specific frequencies, emissions and power, as well as the location information are listed below.

Frequencies, Power and Emission

Location	Frequency	Emission	RF Power (ERP)
Payload Processing Facility	4197.125 MHz	1M00G7D	400 mW
	4198.875 MHz	1M00G7D	400 mW
	5926.5 MHz	1M00G7D	500 mW
	6424.5 MHz	1M00G7D	500 mW
Pier Side Ship Location	4197.125 MHz	1M00G7D	400 mW
	4198.875 MHz	1M00G7D	400 mW
	5926.5 MHz	1M00G7D	500 mW
	6424.5 MHz	1M00G7D	500 mW

Required Dates

This experimental STA is required beginning March 14, 2008 and will be required for a 6 month period.

Location

(1) Payload Processing Facility
Coordinates: 33-44-40 N 118-13-26 W NAD83

(2) Pier Side Ship Location
Coordinates: 33-44-42 N 118-13-28 W NAD83

Stop Buzzer Contact Information

The "Stop Buzzer" point of contact is Steve Lydston, telephone (562) 951-749.