

Satellite Pre-Launch Readiness Testing

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On behalf of
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by

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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 ECHOSTAR 11 satellite.

Test Description

Prior to movement to the equatorial launch site, the ECHOSTAR 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	12692 MHz	1M00G7D	400 mW
	12693 MHz	1M00G7D	400 mW
	17794 MHz	1M00G7D	500 mW
	17797 MHz	1M00G7D	500 mW
Pier Side Ship Location	12692 MHz	1M00G7D	400 mW
	12693 MHz	1M00G7D	400 mW
	17794 MHz	1M00G7D	500 mW
	17797 MHz	1M00G7D	500 mW

Required Dates

This experimental STA is required beginning April 26, 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.