Launch Mission Execution Forecast

Vehicle: Falcon 9 Telkom-4
Issued: 6 Aug 2018/0815 EDT(1215 UTC)
Valid: 7 Aug 2018/0118-0318 EDT (0518-0718 UTC)

Synoptic Discussion:

A weak upper level disturbance is tracking over Central Florida today causing isolated showers, mainly offshore. Satellite indicates shower activity ~100 nautical miles offshore moving west. This activity will move into the coast this evening and overnight as the upper-level disturbance moves west. Tuesday morning, winds will remain easterly at the surface and northeasterly aloft. Maximum upper-level winds will be from the northeast at 30 knots near 50,000 feet. The primary weather concerns will be cumulus clouds associated with coastal showers, and anvil clouds from convective activity near the Gulf Stream.

On Wednesday, winds are expected to weaken and gain a more southerly component as a front digs south over Northern Florida, nudging the ridge axis over the Space Coast. Maximum upper-level winds will be from the northeast at 25 knots near 40,000 feet. Due to the more southerly component of the low-level winds and weak flow in the mid-levels, the chance for coastal showers decrease, and the probability of violating launch weather constraints is decreased from yesterday's forecast to 20%.

Clouds	Coverage	Bases (feet)	Tops (feet)
Cumulus	Few	2,500	4,000
Cirrus	Few	30,000	31,000

Weather: Coastal Showers
Surface Visibility: 7 miles
Liftoff Winds (MPH): 090° @ 08-10 (200')
Temperature: 77°F
Solar Activity: Low
Pressure: 30.06 inHg
RH: 91%

Launch day probability of violating launch weather constraints: **20%**
Primary concern(s): Cumulus Cloud Rule, Anvil Cloud Rule

Delay day probability of violating launch weather constraints: **20%**
Primary concern(s): Cumulus Cloud Rule

Sunset:	06/2009 EDT 07/2008 EDT	**Sunrise:**	07/0647 EDT 08/0648 EDT		
Moonset:	06/1539 EDT 07/1643 EDT	**Moonrise:**	07/0243 EDT 08/0339 EDT	**Illumination**:	26% 17%

Next forecast will be issued: As Needed