



Launch Mission Execution Forecast



Mission: Vulcan CERT-2

Issued: 3 Oct 24 /0900L (1300Z)

Valid: 4 Oct 24 /0600-0900L (1000-1300Z)

Forecast Discussion: A large area of high pressure is expected to slowly move across the eastern seaboard through Saturday, bringing onshore winds and fast-moving, light coastal shower activity to the Spaceport Friday and Saturday morning. Although a few storms that develop inland may move near the Cape in the early morning hours, they are unlikely to be a concern by the opening of the launch window. Additionally, any thunderstorms that develop off the coast should move further offshore, making the Cumulus Clouds Rule the most likely weather constraint violation for both the primary and backup day.

Launch Day		Probability of Violating Weather Constraints ¹				
Launch Day	20%	Primary Concerns: Cumulus Clouds Rule				
	Weather Conditions			Additional Risk Criteria ²		
	Weather/Visibility: Isold Showers / 7 mi	Clouds				Solar Activity: Low
	Temp/Humidity: 80°F / 80%	Type	Coverage	Base (ft)	Tops (ft)	
Liftoff Winds (200'): 100° 13 - 18 kts	Cumulus	Scattered	3,000	8,000		
		Cirrus	Scattered	25,000	28,000	
24-Hour Delay		Probability of Violating Weather Constraints ¹				
24-Hour Delay	25%	Primary Concerns: Cumulus Clouds Rule				
	Weather Conditions			Additional Risk Criteria		
	Weather/Visibility: Isold Showers / 7 mi.	Clouds				Solar Activity: Low
	Temp/Humidity: 79°F / 82%	Type	Coverage	Base (ft)	Tops (ft)	
Liftoff Winds (200'): 070° 13 - 18 kts	Cumulus	Scattered	3,000	10,000		
		Cirrus	Scattered	26,000	30,000	
Notes	<ol style="list-style-type: none"> The Probability of Violation (PoV) is the chance of a local safety or customer constraint violation occurring any random time during the launch window. Additional Risk Criteria, which are not included in the PoV, are mission-specific constraints that may not include all phenomena within each risk factor. 					
	See https://www.patrick.spaceforce.mil/Portals/14/Weather/LaunchFAQ.pdf for more information					
Next Forecast Will Be Issued		AS REQUIRED				