Mission Overview



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The Intelsat-14 mission will be flown from Launch Complex (LC-41) at Cape Canaveral, Florida on an Atlas V launch vehicle (431 configuration, tail number AV-024) with three solid rocket boosters (SRB) and a single engine Centaur stage. The Intelsat-14 satellite will be encapsulated in a 4meter diameter extra extended payload fairing (XEPF) and integrated to the Centaur using a 47-inch diameter payload adapter (PLA), a low shock payload separation system, and electrical and separation system harnesses.

The mission will commence at T-5 seconds when the aft plate ejects from the launch vehicle, followed by the Atlas RD-180 engine ignition at T-2.7 seconds. SRB ignition takes place at T+0.8 seconds.

NTELSAT

Liftoff occurs at T+1.1 seconds. Shortly after the vehicle clears the launch pad, it performs a programmed pitch/yaw/roll maneuver. Max Q occurs at T+50.2 seconds into flight.

Vehicle telemetry and data are gathered and relayed through various local and down-range tracking stations. The tracking and Data Relay Satellite System (TDRSS) also serves to downlink vehicle telemetry throughout the mission.

PACE SYSTEMS

DRAL

INTELSAT

ULA

AV-024

Centaur separates 6 seconds after Booster Engine Cutoff (BECO) at T+273.3 seconds. Centaur main engine Start (MES1) occurs 10 seconds after the separation event at T+283.3 seconds. Payload fairing jettison occurs at T+291.3 seconds, 8 seconds after MES1. At T+1,104.2 seconds, Centaur main engine shutdown occurs (T+1,104.2 seconds) and the Centaur has achieved the first stage of its parking orbit.

 After a 95 minute coast phase, Centaur reorients itself for engine re-ignition. Main Engine Start 2 (MES2) begins at T+6,804.3 seconds. Main Engine cutoff (MECO 2) occurs 95.6 seconds later at T+6,896.9 seconds.

7. Following another short coast phase, the Centaur will begin to reorient its attitude in preparation for space craft separation at T+7,082.9 seconds. Centaur end of mission occurs at T+10,722.9 seconds.



LOCKHEED MARTIN

