



Launch Services Program

Launch Telemetry Requirements

POC: Mission Management Office

Approved: //Original Signed by Ray Lugo for//

S.M. Francois

Director, Launch Services Program

EXECUTIVE SUMMARY:

This directive establishes the policy for **minimum** launch vehicle telemetry support requirements for the day of launch. Each mission's uniqueness should be considered and the Mission Integration Manager may elevate Required and Desired requirements or add to the following minimum list (e. q. – acquisition assistance messages.) These data are utilized for post-flight performance evaluation and anomaly resolution.

Mandatory
Receive and record all phases of powered flight utilizing the launch vehicle primary propulsion system prior to spacecraft separation for all NASA primary spacecraft missions.
Receive and record contamination and collision avoidance maneuvers that may utilize the primary propulsion system for all NASA primary spacecraft missions.
Required
Receive and record depletion burns.
Receive and record all phases of powered flight utilizing the primary propulsion system prior to spacecraft separation for all NASA secondary spacecraft missions.
Receive and record primary spacecraft separation.
Desired
Receive and record secondary spacecraft separation.
Provide real-time retransmission to the launch team for all telemetry received.
Provide backup telemetry support assets that are within the existing mission budget.
Waiver Authority
Waiver authority for mandatory and required items prior to the launch campaign shall be the Launch Services Program Director. The presentation required by the LSP Process Flow for Obtaining Launch Telemetry Support (LSP-P-333.10 Rev.Basic) will be the only briefing required.
Waiver authority for mandatory and required items during the launch campaign shall be the NASA Launch Manager. The waiver shall be provided to the Launch Service Program in AVO format (KSC Form 1-14) and presented at the Launch Vehicle Readiness Review or closest review thereafter.
The Mission Integration Manager may waive desired items.

Definitions:

Desired - a requirement that is a “nice to have,” but not necessary to either make mission or verify mission success.

Required - a requirement that is necessary to either make mission or verify mission success; however, can be waived with the proper work-around or rationale.

Mandatory - a requirement that is necessary to either make mission or verify mission success. Can only be waived in extreme cases prior to terminal count. Once within terminal count, a mandatory requirement cannot be waived.

Secondary Spacecraft Mission - This mission type will be identified in the Launch Service Provider contract.