

**Attachment 9: Payment Plan**

**for**

**FA8811-16-R-0006**

**14 June 2016**

## **I. Basis of Payment**

The basis of payment for this effort shall be the successful accomplishment of event milestones scheduled for each Space Launch Service (SLS) mission throughout the period of performance of any order issued under the contract. The milestones represent meaningful efforts or actions that are an integral and necessary part of order performance. The basis for an event should be either specifically described events or a measurable criterion of performance. Included within this Payment Plan is a description of what constitutes successful performance of each event. For purposes of establishing and calculating payment amounts, a percentage of the total contract price for all applicable firm fixed price (FFP) Contract Line Item Numbers (CLINs) pertaining to the mission (CLINs 0001 – 0003) will be assigned to each milestone. The dollar amount associated with each milestone will be calculated based on the percentages assigned to each milestone. This contract is for the procurement of a Global Positioning System III (GPS III) mission only; therefore, requirements with specific National Reconnaissance Office (NRO)-only references are not applicable. NRO-only references appear in grey text.

### **A. Milestone Success Criteria and Completion Evidence**

Each event milestone has associated measurable success criteria that serve to validate milestone accomplishment. All milestone success criteria must be met before the milestone payment will be authorized. When the Launch Vehicle Contractor (LVC) has successfully completed all applicable milestone success criteria, the LVC shall submit a written Notice of Completion (NOC) for the milestone to the Procurement Contracting Officer (PCO). The NOC shall include supporting documentation to substantiate meeting the milestone success criteria as provided in the completion evidence defined herein.

To support milestone tracking and verification, launch vehicle manifest and production management (schedule alerts) shall be prepared in accordance with (IAW) the LVC's command media, and include reference to applicable SLS CLINs. Delivery of NOC supporting documentation to the Government shall be in electronic format on the My Mission Link (MML) web-based collaborative environment, followed by prompt email notification of the directory location of the documents to the PCO and Government Mission Integration Manager (GMIM) (for Air Force missions) or Office of Space Launch (OSL) Mission Manager (OMM) and OSL Launch Service Contracting Officer's Technical Representative (COTR) (for National Reconnaissance Office [NRO] missions).

### **B. Event Milestone Payments and Event Timing**

The NOC may not be submitted more often than once monthly, regardless of how many milestones have been completed in that month. Therefore, the NOC may be for multiple milestones. Completion of milestones and subsequent NOCs may be submitted non-successively (e.g., if milestone two is completed before milestone one, then the LVC may submit a NOC for milestone two before a NOC for milestone one). In the event the LVC completes a milestone ahead of the milestone completion date, the LVC may include that milestone in the monthly NOC and the Government will consider, on a case-by-case basis, the early payment of the milestone.

The PCO will determine whether or not the LVC has successfully met each of the milestone success criteria based on inputs provided by the United States Government (USG) Team (for Air Force missions) and the Mission Team (for NRO missions).

For Air Force missions, the USG Team consists of the Air Force Space and Missile Systems Center, Launch Systems Enterprise Directorate (SMC/LE), and Air Force Program Executive Officer for Space (AFPEO/SP) office personnel, but also includes The Aerospace Corporation, LE's Systems Engineering and Integration (SE&I) Contractor, LE's Systems Engineering and Technical Assistance (SETA) support Contractors, the NRO/OSL (as applicable), the SMC Independent Readiness Review Team (IRRT), Defense Contract Management Agency (DCMA), Defense Contract Audit Agency (DCAA), 30th Space Wing (30 SW), 45th Space Wing (45 SW), and other organizations as designated by the SMC/LE PCO.

For NRO missions, in addition to the USG Team listed above for Air Force missions, the Mission Team consists of the OMM, the OSL COTR, and their support personnel (to include Government, Aerospace Corporation, and SETA personnel). At their discretion, the OMM and COTR may solicit inputs from SMC/LE to assist in their determination of the LVC's satisfactory completion of the milestone success criteria. Written concurrence from both the OMM and COTR that the LVC has successfully met the milestone success criteria is required before the PCO will authorize payment of the milestone.

To the maximum extent possible within fifteen (15) business days after receipt of the LVC's NOC, the PCO will provide written notification to the LVC specifying which milestones contained in the NOC are determined to be "met" (complete) and, if necessary, which are considered "not met" (incomplete). For milestones identified as incomplete, the PCO will: (1) specify in the notification the issue(s) that led to the determination based upon the milestone success criteria and completion evidence provided herein, and (2) the corrective action(s) required to complete the milestone. The Government and LVC will ensure agreement and understanding of the corrective actions, and the LVC will make a good faith effort to quickly reconcile any incomplete milestones. When the LVC accomplishes the corrective actions, the LVC will submit a NOC addendum to the PCO for Government review. To the maximum extent possible within fifteen (15) business days after receipt of the LVC's NOC addendum, the PCO will provide a written notification to the LVC specifying whether the Government concurs that all corrective actions have been accomplished and the milestone has been "met" (completed).

For each milestone, the Estimated Completion Date is the estimated date that the LVC will complete the payment event and submit the associated NOC for payment of each milestone under this Plan. For each milestone, the value in the percentage "%" column of Table 1 indicates the percentage of the contract value of all applicable FFP CLINs (CLINs 0001 – 0003) that will be used to calculate the dollar amount to be paid to the LVC upon successful completion of the milestone. The Government reserves the right to withhold up to fifty percent (50%) of the total payment value for any unpaid milestone(s) in the event of a Government-approved Class 1 change required for the launch service that is not implemented/completed to meet the Government's approval by the implementation deadlines specified in and IAW Performance Work Statement (PWS) section 3.2.4, Table 1.

### **C. Event Milestone Schedule**

Criteria for payment of each event milestones appear in Table 1. In no event shall the LVC receive payments in excess of 80% of the total contract price until after contract completion [Space Vehicle (SV) delivery on orbit IAW contract clause Federal Acquisition Regulation (FAR) 52.212-04, Addendum to Contract Terms and Conditions—Commercial Items (Sep 2013)]. Given that defects in service for the last milestone 10, Acceptance of Launch Service, are not suitable for correction by re-performance, the Contracting Officer has determined that, pursuant to FAR 52.246-4(e), the appropriate relief for the Government in the event of milestone 10 defect (e.g., mission failure) is to reduce the contract price by the amount of the full milestone 10 payment, which appropriately reflects the reduced value of the services performed.

**Table 1: Payment Event Schedule**

<b>Milestone #</b>	<b>Payment Event</b>	<b>Accomplishment Criteria</b>	<b>Est. Comp. Date</b>	<b>Total Payment (Dollar Value)*</b>	<b>% of FFP CLINs 0001-0003</b>
1	Long lead hardware procurement initiated; Initial Hazardous Materials Management Program (HMMP) Plan; Initial Integration and Operations Plan; Initial Flight Critical Hardware List First Submissions; and Baseline Schedule and Plan for Launch Service Provider Space Flight Worthiness (SFW) Non-Recurring Engineering (NRE) Work Closure Submission	<p>Long lead hardware procurement or build initiated as required.</p> <p>First submission and Government acknowledgement of receipt of HMMP Plan In Accordance With (IAW) Contract Data Requirements List (CDRL) B004; the initial Integration and Operations Plan IAW CDRL B016; and the initial Flight Critical Hardware List IAW CDRL B018.</p> <p>Submission and Government approval of the baseline schedule and plan for launch service provider SFW NRE work closure IAW CDRL B020.</p>	ATP + 1 Month	To Be Filled In By Offeror	10%
2	Contractor Work Breakdown Structure (CWBS) and CWBS Dictionary; Integrated Master Schedule (IMS); Launch Vehicle Familiarization Training Materials; and As-proposed Launch Vehicle Configuration List First Submissions	<p>First submission and Government approval of the CWBS and CWBS Dictionary IAW CDRL A005; the Launch Vehicle Familiarization Training Materials IAW CDRL A007; and the as-proposed launch vehicle configuration list IAW CDRL A009.</p> <p>First submission and Government acknowledgement of receipt of the IMS IAW CDRL A006.</p>	ATP + 2 Months	To Be Filled In By Offeror	5%
3	First Draft Systems Safety Program Plan (SSPP); Initial Contractor Standard Operating Procedures; and First Draft Baseline Mission Interface Control Document (ICD) Submitted	First draft SSPP; Initial Contractor Standard Operating Procedures; and Preliminary/baseline ICD submitted and Government acknowledgement of receipt IAW CDRLs B002, B005 and B009 respectively.	ATP + 3 Months	To Be Filled In By Offeror	5%
4	First draft Mission Integration Verification Planning Matrix (VPM) Submitted	CDRL B011 first draft submitted and the Government has acknowledged receipt.	ATP + 6 Months	To Be Filled In By Offeror	5%
5	Preliminary Coupled Loads Analysis (CLA), and Preliminary Mission Integration Design Review (MIDR-1) Completed	Preliminary CLA complete and results delivered and Government acknowledgement of receipt (CDRL B010). Preliminary MIDR-1 complete.	ATP + 8 Months	To Be Filled In By Offeror	5%

6	Flight and Ground Hardware Interface Checks Completed, Second Draft Baseline Mission ICD and Second Draft Verification Planning Matrix (VPM) Approved, and Launch Service Provider SFW NRE Work Complete	Flight and ground hardware interface checks complete IAW CDRL A011.  Second Draft Baseline ICD, Second Draft VPM, and Final Launch Service Provider SFW NRE work complete and approved by the Government (CDRLs B009, B011, and B020).	L – 12 Months	To Be Filled In By Offeror	20%
7	Critical Mission Integration Design Review (MIDR-2) Completed	MIDR-2 complete.	L – 8 Months	To Be Filled In By Offeror	10%
8	Launch countdown parameters and operational redline limits baseline, and Mission Assurance Independent Assessment and Design Data Submitted	Launch countdown parameters and operational redline limits baseline submitted with written acknowledgement of receipt by the Government IAW Performance Work Statement (PWS) Section 3.2.7.  CDRL B010 data submitted with Government acknowledgement of receipt: <ul style="list-style-type: none"> <li>- Intermediate unguided three Degrees of Freedom (3DOF)</li> <li>- Collision and Contamination Avoidance Maneuver (CCAM) memo</li> <li>- Acoustics, shock, and vibration environments</li> <li>- Vibroacoustic modeling and analysis</li> <li>- Engineering drawings</li> <li>- Transportation environments</li> </ul>	L – 6 Months	To Be Filled In By Offeror	10%
9	Additional Mission Assurance Independent Assessment and Design Data and Calculations Submitted and Hardware Pre-Ship Review(s) and Independent Hardware Review(s) Completed	CDRL B010 data submitted with Government acknowledgement of receipt: <ul style="list-style-type: none"> <li>- Controls tools input data</li> <li>- Controls analysis outputs (except pad/launch drift analysis)</li> <li>- Acoustics, shock, and vibration testing</li> <li>- Interface environments</li> </ul> Major launch vehicle hardware pre-ship reviews and Government independent hardware review(s) complete IAW PWS 3.6.6 and 3.6.5 respectively.	L – 2 Months	To Be Filled In By Offeror	10%

10	Acceptance of Launch Service	Final post-flight assessment report (CDRL B006) has been delivered with Government acknowledgement of receipt, compliance with the ODMSP requirements including post-mission disposal of the upper stage demonstrated by the mission, and the launch has been accepted and not deemed a “mission failure” IAW contract clause Federal Acquisition Regulation (FAR) 52.212-04 and the Launch Service Acceptance Criteria (LSAC) outlined in contract Attachment 4.	L + 2 Months	To Be Filled In By Offeror	20%
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\*The dollar amount for each milestone is to be filled in by the Offeror, and is equal to the percentage listed in the last column multiplied by the value of the contract (CLINs 0001 – 0003) prior to award of each milestone. No adjustment to the payment will occur after milestone award.

**MILESTONE 1: Long Lead Hardware Procurement or Production Initiated, Initial Hazardous Materials Management Program Plan, Initial Integration and Operations Plan, Initial Flight Critical Hardware List First Submissions, and Launch Service Provider SFW NRE Work Closure Plan and Schedule Baseline Approved**

**Description:**

- (1) Long Lead Hardware Procurement or Production Initiated. LVC has initiated procurement orders for or production of long lead hardware required for the mission.
- (2) Initial Hazardous Materials Management Program (HMMP) Plan. LVC’s initial HMMP plan delivered and the Government has acknowledged receipt IAW PWS paragraph 3.1.15 and Contract Data Requirements List (CDRL) B004.
- (3) Initial Integration and Operations Plan. LVC’s initial integration and operations plan delivered and the Government has acknowledged receipt IAW PWS paragraph 3.5.1.9.1 and CDRL B016.
- (4) Initial Flight Critical Hardware List. LVC’s initial flight critical hardware list delivered and the Government has acknowledged receipt IAW PWS paragraph 3.6.5 and CDRL B018.
- (5) Launch Service Provider SFW NRE Work Closure Schedule and Plan. LVC’s baseline launch service provider SFW NRE work closure schedule and plan delivered and approved by the Government IAW PWS paragraph 3.6 and CDRL B020.

**Success Criteria:**

- (1) The LVC has initiated procurement orders for or production of long lead hardware required for the mission.
- (2) The LVC has delivered and the Government has acknowledged receipt of the initial, first draft HMMP plan IAW CDRL B004.
- (3) The LVC has delivered and the Government has acknowledged receipt of the initial integration and operations plan IAW CDRL B016.
- (4) The LVC has delivered and the Government has acknowledged receipt of the initial flight critical hardware list IAW CDRL B018.
- (5) The LVC has delivered and the Government has approved the baseline launch service provider SFW NRE work closure plan and schedule IAW CDRL B020.

**Completion Evidence:**

- (1) Copies of signed, written procurement or build orders for all long lead hardware required for the mission received and accepted by the PCO, appropriate Contracting Officer Representative (COR) or appropriate Contracting Officer Technical Representative (COTR).
- (2) CDRL B004 initial draft HMMP plan acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.
- (3) CDRL B016 initial draft integration and operations plan acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.
- (4) CDRL B018 initial flight critical hardware list acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.
- (5) CDRL B020 baseline launch service provider SFW NRE work closure plan and schedule acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.

**MILESTONE 2: First Submission of the Contractor Work Breakdown Structure and Dictionary, Integrated Master Schedule, Launch Vehicle Familiarization Training Materials, and As-proposed Launch Vehicle Configuration List****Description:**

- (1) Contractor Work Breakdown Structure (CWBS) and CWBS Dictionary. LVC's CWBS and CWBS dictionary delivered and approved by the Government IAW PWS paragraph 3.1.4 and CDRL A005.
- (2) Integrated Master Schedule (IMS). LVC's IMS delivered and the Government has acknowledged receipt IAW PWS paragraph 3.1.4 and CDRL A006.
- (3) Launch Vehicle Familiarization Training Materials. LVC's initial LV familiarization training materials required by CDRL A007 delivered and approved by the Government IAW PWS paragraph 3.1.10 and CDRL A007.
- (4) As-proposed Launch Vehicle Configuration. LVC's initial as-proposed launch vehicle configuration and critical ground support equipment list delivered and approved by the Government IAW PWS paragraphs 3.2.4, 3.6.4, and 3.6.5 and CDRL A009.

**Success Criteria:**

- (1) The LVC has delivered and the Government has approved the initial CWBS and CWBS Dictionary IAW CDRL A005.
- (2) The LVC has delivered and the Government has acknowledged receipt of the initial IMS IAW CDRL A006.
- (3) The LVC has delivered and the Government has approved the initial submission of all LV familiarization training materials required by and IAW CDRL A007.
- (4) The LVC has delivered and the Government has approved the initial submission of the as-proposed launch vehicle configuration and critical ground support equipment list specific to the launch service required by and IAW CDRL A009.

**Completion Evidence:**

- (1) CDRL A005 initial CWBS and CWBS Dictionary acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.
- (2) CDRL A006 initial IMS acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.
- (3) CDRL A007 initial submission of LV familiarization training materials acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.

- (4) CDRL A009 initial submission of the as-proposed launch vehicle configuration and critical ground support equipment list acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.

**MILESTONE 3: First Draft Systems Safety Program Plan, Initial Contractor Standard Operating Procedures, and Baseline Mission Interface Control Document Submitted**

**Description:**

- (1) Systems Safety Program Plan (SSPP). LVC's first draft SSPP delivered and the Government has acknowledged receipt IAW PWS 3.1.7 and CDRL B002.
- (2) Initial Contractor Standard Operating Procedures. All LVC's initial standard operating procedures delivered and the Government has acknowledged receipt IAW PWS sections 3.1 and 3.2 and CDRL B005.
- (3) Interface Control Document (ICD). LVC's initial baseline mission ICD delivered and the Government has acknowledged receipt IAW PWS paragraph 3.4.4 and CDRL B009.

**Success Criteria:**

- (1) The LVC has delivered and the Government has acknowledged receipt of the initial, first draft SSPP IAW CDRL B002.
- (2) The LVC has delivered and the Government has acknowledged receipt of all initial Contractor Standard Operating Procedures listed in and IAW CDRL B005.
- (3) The LVC has delivered and the Government has acknowledged receipt of the initial, first draft baseline mission ICD IAW CDRL B009.

**Completion Evidence:**

- (1) CDRL B002 initial draft SSPP acceptance sheet signed by the PCO, appropriate Contracting Officer Representative (COR) or appropriate Contracting Officer Technical Representative (COTR).
- (2) CDRL B005 acceptance sheets signed by the PCO, appropriate COR, or appropriate COTR for all initial Contractor Standard Operating Procedures listed in CDRL B005.
- (3) CDRL B009 initial draft mission ICD acceptance sheet signed by the PCO, appropriate Contracting Officer Representative (COR) or appropriate Contracting Officer Technical Representative (COTR).

**MILESTONE 4: First draft Mission Integration Verification Planning Matrix Submitted**

**Description:**

- (1) Verification Planning Matrix (VPM). LVC's first draft VPM delivered and the Government has acknowledged receipt IAW CDRL B011.

**Success Criteria:**

- (1) The LVC has delivered and the Government has acknowledged receipt of the first draft VPM IAW CDRL B011.

**Completion Evidence:**

- (1) CDRL B011 first draft VPM acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.



## **MILESTONE 5: Preliminary Coupled Loads Analysis and Preliminary Mission Integration Design Review (MIDR-1) Completed**

### **Description:**

- (1) Preliminary Coupled Loads Analysis (CLA). LVC has completed preliminary CLA, submitted the preliminary CLA data, and the Government has acknowledged receipt of the CLA data IAW CDRL B010.
- (2) Preliminary Mission Integration Design Review (MIDR-1). The LVC shall conduct MIDR-1.

### **Success Criteria:**

- (1) LVC has completed preliminary CLA, submitted the preliminary CLA data, and the Government has acknowledged receipt of the CLA data IAW CDRL B010.
- (2) The LVC has conducted the MIDR-1 with actions and action closure plans identified and accepted by the Government.

### **Completion Evidence:**

- (1) CDRL B010 preliminary CLA data acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.
- (2) MIDR-1 meeting minutes documenting meeting completion, action items, and action item closure plans.

## **MILESTONE 6: Flight and Ground Hardware Interface Checks Completed, Second Draft Baseline Mission ICD and Verification Planning Matrix (VPM) Approved, and Launch Service Provider SFW NRE Work Complete**

### **Description:**

- (1) Flight and Ground Hardware Interface Tests. The LVC shall perform tests to verify the compatibility of the physical and electrical interfaces and clearances between the LV and SV IAW PWS sections 3.4.11 and 3.4.12 and CDRL A011. The LVC shall perform mechanical fit-checks of the adapter harness to the standard electrical interface panel for each SV. The testing shall verify that all physical interfaces meet mission ICD requirements. These tests shall be performed, with Space Vehicle Contractor (SVC)/Launch System Integration Contractor (LSIC) support, to satisfy all applicable requirements in the ICD, contract PWS, and CDRL A011.
- (2) Second Draft Baseline Mission ICD. LVC's second submission of the baseline mission ICD IAW CDRL B009 has been approved by the Government.
- (3) Second Draft Verification Planning Matrix (VPM). LVC has submitted and the Government has approved the second draft VPM IAW CDRL B011.
- (4) Launch Service Provider SFW NRE Work Complete. LVC's launch service provider SFW NRE work is complete with Government-approved exceptions allowed and all action items have been closed with Government-approved exceptions allowed IAW the LVC's Government-approved baseline SFW NRE work closure plan and schedule, PWS paragraph 3.6 and CDRL B020.

### **Success Criteria:**

- (1) Flight and ground hardware interface checks have been performed IAW PWS sections 3.4.11 and 3.4.12 and CDRL A011.
  - a. CDRL A023 second submission of as-run interface check procedures received and accepted by the Government.
- (2) CDRL B009 second submission received and approved by the Government.
- (3) CDRL B011 second submission received and approved by the Government.

- (4) CDRL B020 final submission received and approved by the Government.

**Completion Evidence:**

- (1) CDRL A011 second submission acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.
- (2) CDRL B009 second submission acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.
- (3) CDRL B011 second submission acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.
- (4) CDRL B020 final submission acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.

**MILESTONE 7: Critical Mission Integration Design Review (MIDR-2) Completed**

**Description:**

- (1) The LVC shall perform the critical Mission Integration Design Review (MIDR-2) IAW the LVC's Mission Integration Management Plan (MIMP) (CDRL B008) and PWS paragraph 3.4.2.

**Success Criteria:**

- (1) The LVC has conducted the MIDR-2 with either no liens or an action closure plan accepted by the Government.

**Completion Evidence:**

- (1) Meeting minutes documenting successful MIDR-2 completion, including action items, and assessment of mission design effort to Critical Design Review (CDR) level.

**MILESTONE 8: Launch Countdown Parameters and Operational Redline Limits Baseline, and Mission Assurance Independent Assessment and Design Data Submitted**

**Description:**

- (1) The LVC shall provide the launch countdown parameters and operational redline limits baseline IAW PWS Section 3.2.7.
- (2) The LVC shall submit the following Mission Assurance Independent Assessment and Design data IAW CDRL B010:
  - a. Intermediate unguided 3DOF
  - b. CCAM memo
  - c. Acoustics, shock, and vibration environments
  - d. Vibroacoustic modeling and analysis
  - e. Engineering drawings
  - f. Transportation environments

**Success Criteria:**

The LVC has provided and the Government has in writing acknowledged receipt of the launch countdown parameters and operational redline limits baseline IAW PWS Section 3.2.7.

- (1) The LVC has submitted and the Government has acknowledged receipt of the intermediate unguided 3DOF IAW CDRL B010.
  - a. The LVC has submitted and the Government has acknowledged receipt of the CCAM memo IAW CDRL B010.
  - b. The LVC has submitted and the Government has acknowledged receipt of the acoustics, shock, and vibration environments IAW CDRL B010.

- c. The LVC has submitted and the Government has acknowledged receipt of the vibroacoustic modeling and analysis IAW CDRL B010.
- d. The LVC has submitted and the Government has acknowledged receipt of the engineering drawings IAW CDRL B010.
- e. The LVC has submitted and the Government has acknowledged receipt of the transportation environments IAW CDRL B010.

**Completion Evidence:**

- (1) Written acknowledgement of receipt by the Government of launch countdown parameters and operational redline limits baseline.
- (2) All CDRL B010 submission acceptance sheets signed by the PCO, appropriate COR, or appropriate COTR.

**MILESTONE 9: Additional Mission Assurance Independent Assessment and Design Data and Calculations Submitted and Hardware Pre-Ship Review(s) and Independent Hardware Review(s) Completed**

**Description:**

- (1) The LVC shall submit the following Mission Assurance Independent Assessment and Design data and calculations IAW CDRL B010:
  - a. Controls tools input data
  - b. Controls analysis outputs (except pad/launch drift analysis)
  - c. Acoustics, shock, and vibration testing
  - d. Interface environments
- (2) The LVC shall conduct and complete pre-ship reviews for the major launch vehicle elements prior to shipment to the launch site IAW PWS paragraph 3.6.6.1. These major launch vehicle elements shall include:
  - a. Core booster(s)
  - b. Upper stage
  - c. Payload fairing
  - d. Payload adapter, and
  - e. Solid rocket motors (as applicable)
- (3) The LVC shall verify that all data is available for the Government's independent hardware reviews and that all nonconformances and Out of Position (OOP) items and their closure plans have been identified IAW PWS section 3.6.5.

**Success Criteria:**

- (1a) The LVC has submitted and the Government has acknowledged receipt of the controls tools input data (CDRL B010).
- (1b) The LVC has submitted and the Government has acknowledged receipt of the controls analysis outputs (except pad/launch drift analysis) (CDRL B010).
- (1c) The LVC has submitted and the Government has acknowledged receipt of the acoustics, shock, and vibration testing results (CDRL B010).
- (1d) The LVC has submitted and the Government has acknowledged receipt of the interface environments (CDRL B010).
- (2a) The LVC has conducted, completed, and the Government has acknowledged completion in writing of a pre-ship review for the core booster(s) IAW PWS paragraph 3.6.6.1.
- (2b) The LVC has conducted, completed, and the Government has acknowledged completion in writing of a pre-ship review for the upper stage IAW PWS paragraph 3.6.6.1.
- (2c) The LVC has conducted, completed, and the Government has acknowledged completion in writing of a pre-ship review for the payload fairing IAW PWS paragraph 3.6.6.1.

- (2d) The LVC has conducted, completed, and the Government has acknowledged completion in writing of a pre-ship review for the payload adapter IAW PWS paragraph 3.6.6.1.
- (2e) The LVC has conducted, completed, and the Government has acknowledged completion in writing of a pre-ship review for the solid rocket boosters (as applicable) IAW PWS paragraph 3.6.6.1.
- (3a) The LVC has made all required data (e.g., build paper) available for the Government's independent hardware reviews IAW PWS section 3.6.5.
- (3b) The LVC has identified closure plans acceptable to the Government for all nonconformances identified during the Government's independent hardware review(s) for all hardware associated with the mission, flight or ground.
- (3c) The LVC has identified all OOP items and has identified closure plans acceptable to the Government for all such items.

**Completion Evidence:**

- (1) All CDRL B010 submission acceptance sheets signed by the PCO, appropriate COR, or appropriate COTR.
- (2a-e) Written acknowledgment by the Government that pre-ship reviews have been completed for the core booster(s), upper stage, payload fairing, payload adapter, and (as applicable) solid rocket booster(s) IAW PWS paragraph 3.6.6.1.
- (3a-c) Written acceptance by the Government of closure plans for all hardware nonconformances and OOP items identified during the Government's independent hardware review(s) IAW PWS section 3.6.5.

**MILESTONE 10: Acceptance of Launch Service**

**Description:**

- (1) Final Post Flight Assessment Report completed and delivered IAW CDRL B006.
- (2) The Launch Service Order has been accepted by the Government IAW contract clause FAR 52.212-04 and contract Attachment 4, Launch Service Acceptance Criteria (LSAC).
- (3) Compliance with Orbital Debris Mitigation Standard Practices (ODMSP)

**Success Criteria:**

- (1) Final Post Flight Assessment Report has been completed, delivered to, and the Government has acknowledged receipt IAW CDRL B006.  
The mission has not been deemed a "Mission Failure" IAW contract clause FAR 52.212-04 and Attachment 4, LSAC.
- (2) The Launch Service Order has been accepted by the PCO IAW contract clause FAR 52.212-04 and contract Attachment 4, LSAC.
- (3) Compliance with the ODMSP requirements including post-mission disposal of the upper stage was demonstrated by the mission and is documented in CDRL B006.

**Completion Evidence:**

- (1) CDRL B006 final submission acceptance sheet signed by the PCO, appropriate COR, or appropriate COTR.
- (2) No written determination by the Director, Space and Missile Systems Center, Launch Systems Enterprise Directorate (SMC/LE) deeming the Launch Service Order a "Mission Failure" IAW contract clause FAR 52.212-04 and Attachment 4, LSAC.  
PCO's written notification to the LVC that the mission launched has been accepted by the

Government IAW contract clause FAR 52.212-04 and contract Attachment 4, LSAC.

- (3) Orbital Debris Compliance - CDRL B006 final submission, Final Post Flight Assessment Report  
(to include post-mission disposal of the upper stage).