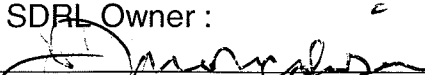

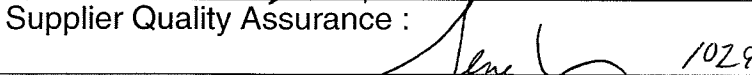



Orbital Sciences Corporation
Launch Systems Group
Orbital Proprietary

SUPPLIER		
DATA REQUIREMENT DESCRIPTION		
TITLE Process Failures Modes and Effects Analysis	NUMBER SDRL-149	
	DATE 4/9/10	REVISION -
SUBMITTAL SCHEDULE Initial submittal per contract, updates as required	APPROVAL TYPE [x] Product Lead [x] QE Approval: _____ X _____ Review: _____	REFERENCE DOCUMENTS MDA-QS-001-MAP-Rev. A Para. 3.5.12
<p>Does this SDRL need to be added to Costpoint Yes [x] No []</p> <p>Note: All newly released or revised, Non-Recurring SDRLs need to be added to Costpoint. Send the approved version of this form to Purchasing Manager to have these added to Costpoint.</p> <p>DESCRIPTION/PURPOSE</p> <p>The Supplier shall perform a process Failures Modes and Effects Analysis (FMEA) to determine potential product failure modes caused by fabrication processes. A process FMEA shall be performed prior to, and in support of process qualification for new, ordnance, safety critical, and high volume production processes.</p>		
<p>SCOPE/PREPARATION INSTRUCTIONS Process Failures Modes and Effects Analysis</p> <p>The Supplier shall perform a process Failures Modes and Effects Analysis (FMEA) in accordance with MDA-QS-001-MAP-Rev. A, Para. 3.5.12, to determine potential product failure modes caused by fabrication processes. A process FMEA shall be performed prior to and support process qualification for new, ordnance, safety critical, and high volume production processes. Results of process FMEA shall be submitted to Orbital. The Process FMEA shall at a minimum:</p> <ol style="list-style-type: none"> a. Identify potential product related process failure modes. b. Assess potential end user effects of the failures. c. Identify the potential fabrication process causes and process variables on which to focus controls for occurrence reduction or detection of the failure conditions. d. Develop a ranked list of potential failure modes, thus establishing a priority system for corrective action considerations. e. Documents the results of the fabrication process. <p>MS Excel format acceptable. Electronic submission required to the following address: supplychainmanagement@orbital.com.</p>		
SDRL Owner :  104 579	Date : 4-22-10	
Supply Chain :  103407	Date : 4/27/10	
Supplier Quality Assurance :  102901	Date : 4-22-2010	
Mission Assurance :  103296	Date : 4-22-2010	