# Supplier Data Requirement List (SDRL)

## Description

### SDRL Description

<table>
<thead>
<tr>
<th>TITLE</th>
<th>NUMBER</th>
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<tbody>
<tr>
<td>Process Failures Modes and Effects Analysis - PFMEA</td>
<td>SDRL -149</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>DATE</th>
<th>REVISION</th>
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<tbody>
<tr>
<td>11/1/2018</td>
<td>B</td>
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</tbody>
</table>

### Submittal Schedule

Initial submittal per contract, updates as required

### Approval Type

- [ ] Product Lead
- [ ] QE
- [ ] Other Mission Assurance

Approval: 

Review:

### Reference Documents

Does this SDRL need to be added to Costpoint? **Yes [x] No [ ]**

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 in order to have these added to Costpoint.

### Description/Purpose

The Supplier shall deliver a Process Failures Modes and Effects Analysis (PFMEA) to help determine critical processes witnessed in a Process Qualification Program (PQP) by determining potential product failure modes caused by fabrication processes. This SDRL does not require sub tier information.

### Scope/Preparation Instructions

Content-

The developer shall perform a Process Failures Modes and Effects Analysis (PFMEA) to determine potential product failure modes caused by fabrication processes. PFMEAs are performed prior to and support process qualification for new, Safety & Mission Critical hardware (defined by NGIS), and as it applies, requires updates when the PFMEA is impacted by changes occurring in inputs listed below. A completed PFMEA, shall be used as an entrance criteria tool for Process Qualification Program (PQP) events defined in SDRL 164. Industry Standard AS13004 can be used as a guideline when complying with this requirement.

As a minimum, PFMEA shall:

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 any corrective actions if performed.

Inputs to developing a PFMEA shall include the following (when available):

A. Process Flow Diagram (PFD) from Manufacturing Baseline (SDRL 101).
B. All steps within each operation that could introduce a failure.
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C. Nonconformance data from past deliveries or similar products and processes.
D. Related information from SDRL 148 (FMEA), if applies.
E. Key product and Process Characteristics, if available.

Electronic submission required to the email address: SupplyChainManagement@OrbitalATK.com

<table>
<thead>
<tr>
<th>SDRL Description Owner:</th>
<th>103294</th>
<th>Date: 11/20/18</th>
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<tbody>
<tr>
<td>Supply Chain:</td>
<td>103831</td>
<td>Date: 11/20/18</td>
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<td>Mission Quality Assurance:</td>
<td>104171</td>
<td>Date: 11/20/18</td>
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<tr>
<td>Supplier Quality Assurance:</td>
<td>673036</td>
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