



## **Q720 Baseline Qualification First Article Test (Rev 06/03/20)**

**This clause requires the following SDRL deliverable(s): S720A, B, & C - See Exhibit A for details.**

The Seller shall perform Baseline Qualification First Article Testing (FAT) prior to initial delivery on the W31P4Q-19-X-XXX (i.e. FY19-23) government prime contract for all items not previously validated on the W31P4Q-14-C-0154 (i.e. FY14-18) government prime contract. This is to ensure that the systems, subsystem, component, and material comply with all TDP requirements. The Baseline Qualification FAT shall include verification of all TDP characteristics and tests as documented in the prints, specifications, etc.

### **I. Requirements Prior to Execution of the Baseline FAT**

#### **1. Baseline FAT Plan**

a. GD-OTS will author the Baseline Qualification FAT Plan and will seek input from the supplier as needed to ensure accuracy and adequacy of the plan. Suppliers are required to comply with all aspects of the approved plan.

i. The Plan will cover all characteristics of the TDP, prints, specifications, etc. To the extent that a sub tier supplier generates characteristics referenced by an applicable print or specification, these characteristics shall be incorporated in the plan. Since the Baseline Qualification FAT Plan may be extensive and extend to sub tier supplier's facilities, the Seller shall provide GD-OTS an anticipated timeline for execution of the various pieces of the FAT.

The use of standard rework procedures shall be documented and included in the Baseline Qualification Plan and validated as part of the execution. The Seller shall work with GD-OTS in planning the content of the Baseline Qualification FAT Plan to satisfy the needs of the Seller.

ii. GD-OTS will notify the Seller when the plan has been approved for execution and coordinate schedule with the Seller.

iii. GD-OTS will generate and provide to the Seller data sheets in accordance with the requirements of SAE Aerospace Standard AS9102, using Form 1: Part Number Accountability; Form 2: Product Accountability – Raw Material, Specifications, and Special Process(es), Functional Testing; and Form 3: Characteristic Accountability, Verification and Compatibility Evaluation. The Seller shall supply information regarding the gaging/test equipment to be used to accomplish each required inspection. The Seller's responsibility shall be to enter the results of each inspection/test on the appropriate AS9102 forms, provide required material and process certifications, etc. at the time of the execution of the Baseline Qualification FAT.



iv. Unless otherwise specified in the TDP, first article sample quantities shall be 25 for Safety, Special, Critical and Major Characteristics, 10 for Minor Characteristics, 2 for Unlisted Characteristics, and 1 for Reference and Basic Characteristics. Sample sizes for validation shall be as noted on the AS9102 data sheets.

v. A series of AS9102 data sheets will be provided for each end item deliverable to GD-OTS, applicable sub-assemblies, sub-components and raw materials.

b. GD-OTS will provide to the Seller a “ballooned” print numbering each characteristic, dimension, and note.

c. The Seller shall provide a Baseline Process Flow Map for each end item deliverable to GD-OTS. The baseline map shall include process step description, equipment used at that process step (including make, model, and serial number), the name, number, and revision level of any process work instructions applicable to that operation. The map shall also include a description of all inspection and test equipment used at that process step; indicate if Statistical Process Control (SPC) is used at that process step, any standard equipment adjustments and whether there are any approved rework processes. Baseline Process Flow Maps shall also be supplied for sub tier suppliers that supply components that are detailed in a print as well as for suppliers of Special Processes (e.g. painting, plating, chromate finishing, etc.). COTS items, raw materials and distributor supplied items are exempted from the Baseline Process Flow Map requirement. The Baseline Process Flow Map shall be submitted in the format of the GD-OTS Process Flow Template, QS-TP-21.0.1. The Baseline Process Flow Map shall be provided to GD-OTS prior to the execution of the Baseline Qualification FAT. The template can be obtained on the GD-OTS SharePoint collaboration site.

d. Requirements for Inspection and Test Equipment Validation covered in Clause Q718 shall be completed prior to execution of the Baseline Qualification FAT.

## II. Baseline Qualification FAT Execution

1. Once the Baseline FAT Plan has been approved, provision shall be made for GD-OTS and/or Government representatives to witness all or any portion of the execution of the Baseline Qualification FAT at their discretion. Seller shall notify GD-OTS in writing what date they will be ready to begin execution of the Baseline Qualification FAT a minimum of thirty-five (35) calendar days in advance of that date to allow for required notification to the customer.

2. Samples for the Baseline Qualification FAT shall be manufactured using the process and equipment that will be used for production and shall be selected from the first production lot. Where MIL-STD-1168 lot numbering is required, lots shall be identified as a First Article Lot in accordance with MIL-STD-1168. The size of this lot shall be approved by GD-OTS for items at the



deliverable part number level. First Article lots from sub-tier suppliers will be expected to be of sufficient size to support the First Article lot at the deliverable part number level.

3. Testing and Inspection shall be performed at the facility at which the inspection and test equipment resides.

III. After Baseline Qualification FAT Execution

1. Upon successful execution of the Plan the supplier shall provide GD-OTS with all test reports, certifications, and data sheets completed as part of the execution of the Baseline Qualification FAT. This information shall be provided to GD-OTS within seven (7) calendar days of the completion of the execution of the Baseline Qualification FAT.

2. Production beyond the first article lot may not begin until contractually directed by GD-OTS.

3. GD-OTS will prepare the Baseline Qualification FAT Report for submission to the Government for approval. The Seller shall provide assistance to GD-OTS as needed to support any clarifications or additional information required to respond to Government questions or concerns.

4. Residual components of the Baseline Qualification Lot shall be considered sellable product provided they