

## Flexfab Supplier Digital Product Definition (DPD) Audit Questionnaire

(Reference Commodity Codes:  
65 and 135)

Date:	Supplier Contacts:
Supply Name:	Supplier Number:
Supplier Address:	Flexfab Auditor(s):

Checklist Question	D6-51991 Section	Finding	Pass(P) Fail(F) N/A	Corrective Action
<b>A. Digital Product Definition DPD:</b>				
1. Are there DPD documented processes or procedures that address all sections of D6-51991?	1.1			
2. Is there a flow diagram of the complete documented DPD processes?	1.2			
3. Is there a requirement in the suppliers documented processes to notify customer within 30 days of any changes or at a minimum annually if no changes occur.	1.3			
4. Are documented DPD processes implemented with defined authority for change control and maintenance?	1.3			
5. Is there a process to ensure integrity and security of datasets from receipt throughout the manufacturing and acceptance process?	2.1			
6. Does the supplier have a process to control configuration of dataset derivative media?	2.2			
7. Are dataset derivatives traceable back to the current authority dataset?	2.2.1			
8. Does the planning package identify traceability to the current authority dataset?	2.2.2			
9. Does the supplier have a change control process for dataset derivative media?	2.2.3			
10. Does the supplier have a process that includes control of non current (obsolete) authority datasets and dataset derivatives?	2.2.4			
11. If providing Type Design or Tool Design to the customer, does the supplier have a documented process for design and development?	2.3			
12. Does internal quality audits procedure include auditing or reviewing all internal and sub-tier operations for DPD data and related documentation?	4.0			

[www.flexfab.com](http://www.flexfab.com)

**Flexfab, LLC.** 1699 West M-43 Highway  
Hastings, Michigan 49058-9628 USA  
Tel: 269.945.3533 Fax: 269.945.4802

Checklist Question	D6-51991 Section	Finding	Pass(P) Fail(F) N/A	Corrective Action
13. Does the supplier's documented procedure for corrective action include reporting, tracking and resolving hardware, software and dataset integrity (including customer provided datasets)?	5.0			
14. Does the supplier have a process to assess, monitor and control sub-tier compliance with DPD requirements?	6.1			
15. Does supplier Quality organization have responsibility for approval of all inspection media?	8.1			
16. Does the supplier have a documented process to create inspection media from a 3D model in addition to the 2D drawing?	8.2,8.3			
17. Is there a process in place to document FAI's for product produced from authority datasets?	8.5			
<b>A. Digital Product Definition DPD:</b>				
18. Does the supplier document the current level of hardware configuration, software, software revisions and other digital system information (e.g.PTF(s), project files)required to maintain compatibility with Boeing supplied datasets and/or data exchange formats per applicable Boeing systems(s) requirement documents?	9.1			
19. Does the supplier verify dataset translations when a supplier translates customer authority datasets from their as received format into their manufacturing or inspection software?	9.2			
20. Does the supplier ensure that when Tool Design responsibility is flowed down to sub-tier suppliers that the sub-tier supplier is approved by the supplier?	10.1.2			
21. Does the supplier have a documented process to ensure release, acceptance, identification, security, access and change control for: <ul style="list-style-type: none"> <li>• Tool design datasets</li> <li>• Tool Inspection datasets</li> </ul>	10.1			
22. Are digitally defined special tools and physical inspection media (check fixtures, templates, etc.) identified and traceable to the authority tool design dataset?	10.2			
23. Are special tools and tooling media accepted and periodically validated to the authority design at a frequency determined to ensure accuracy and repeatability?	10.3			
24. Does the supplier define training requirements that: <ul style="list-style-type: none"> <li>• Assure competence and maintain employee training records, including on-the-job-training, for all DPD system users.</li> <li>• Respond to changes to the DPD process, equipment, or software?</li> </ul>	11.0			
<b>B. Coordinate Measuring Systems CMS</b>				
1. Does the supplier's CAD system have the ability to view annotation based on customer site-specific requirements?	9.1			
2. Does the supplier have a documented process to create inspection media from a 3D MBD model?	8.2			

Checklist Question	D6-51991 Section	Finding	Pass(P) Fail(F) N/A	Corrective Action
3. Does the supplier have a process to ensure verification of all design requirements of the authority dataset? (e.g., all defined by feature control frames, annotation, specifications, notes and other specified requirements in the authority DPD dataset and associated parts list including dimensional and other properties)?	8.4			
4. Is there a process in place to document FAI's for product produced from MBD datasets?	8.5			
5. Does the supplier have a process to assure sub-tier suppliers' ability to work with MBD information?	6.1			
6. Has the supplier identified specific training requirements for all functions associated with use and control of MBD datasets? (e.g. planning, purchasing, contract review and manufacturing)?	11.1			
<b>B. Coordinate Measuring Systems CMS</b>				
1. Does the supplier use CMS equipment for tooling and/or product acceptance?	7.2			
2. Does the supplier have a process to control critical functions of the CMS?	7.2.1			
3. Does the supplier maintain certification/calibration for equipment used for inspection, including: <ul style="list-style-type: none"> <li>• CMS equipment (fixed and portable)</li> <li>• NC equipment with inspection probe capability used for product acceptance</li> <li>• OLT's</li> <li>• Ply cutters</li> <li>• Other equipment used to accept part attributes (Scale bar, adaptive tooling, ball bars, etc)?</li> </ul>	7.1			
4. Is there a process in place to validate Product Acceptance Software (PAS) independent of the software developer?	3.1			
5. Does the supplier develop software for inspection and acceptance of product? <ul style="list-style-type: none"> <li>• Is there a documented process to require creation of plans and instructions for the building, configuration management, loading and testing of "Supplier developed" product acceptance software?</li> </ul>	3.2,3.3			
6. Does the supplier define training requirements that: <ul style="list-style-type: none"> <li>• Assure competence and maintain employee training records, including on-the-job-training, for all CMS system users?</li> <li>• Respond to changes to the CMS process, equipment, or software?</li> </ul>	11.1			
<b>C. Plotter</b>				
1. Are there documented processes for the control of Mylar plots used as a media of inspection? Those procedures shall include at a minimum the following: <ul style="list-style-type: none"> <li>• Plotter Calibration</li> <li>• Verification of engineering definition</li> <li>• Verification of plot accuracy</li> <li>• Quality Acceptance Stamping</li> <li>• Verify accuracy prior to use?</li> </ul>	8.6.1			
2. Does the supplier define training requirement that: <ul style="list-style-type: none"> <li>• Assure competence and maintain employee training records, including on-the-job-training, for all system users?</li> <li>• Respond to changes to the Plotter process, equipment, or software?</li> </ul>	11.1			