



Document Title: DPD Supplier Checklist		Document ID: 7530-QSP-FORM-002		
Owner: QAM	Approver DOQ	Revision 0	Effective Date 1/30/2020	

Date:	Supplier Contacts:
Supplier Name:	Supplier Number:
Supplier Address:	Summit Aviation Auditor:

Summit Aviation Inc. DPD Supplier Checklist

Checklist Questions	Finding	Pass (P) Fail (F) N/A	Corrective Action
Digital Product Definition (DPD)			
1. Are there DPD documented processes or procedures?			
2. Is there a flow diagram of the complete documented DPD processes?			
3. Is there a requirement in the suppliers documented processes to notify customer within 30 days of any changes.			



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4. Are documented DPD processes implemented with defined authority for change control & maintenance?			
5. Is there a process to ensure integrity and security of datasets from receipt throughout the manufacturing and acceptance processes?			
6. Does the supplier have a process to control configuration of dataset derivative media?			
7. Are dataset derivatives traceable back to the current authority dataset?			
8. Does the planning package identify traceability to the current authority dataset?			
9. Does the supplier have a change control process for dataset derivative media?			
10. Does the supplier have a process that includes control of non-current (obsolete) authority datasets and dataset derivatives?			



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11. If providing Type Design or Tool Design to SAI, does the supplier have a documented process for design and development?			
12. Does internal quality audits procedure include auditing or reviewing all internal and sub-tier operations for DPD data and related documentation?			
13. Does the supplier's documented procedure for corrective action include reporting, tracking and resolving hardware, software and dataset integrity (Including supplier supplied authority data sets)?			
14. Does the supplier have a process to assess, monitor and control sub-tier compliance with DPD requirements?			
15. Does supplier QA organization have responsibility for approval of all inspection media?			
16. Does the supplier have a documented process to create inspection media from a 3D model in addition to the 2D drawing?			
17. Is there a process in place to document FAI's for product produced from authority datasets?			



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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 supplied datasets and/or data exchange formats per applicable system(s) requirement documents?			
19. Does the supplier verify dataset translations when a supplier translates authority datasets from their as received format into their manufacturing or inspection software?			
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?			
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"> • Tool design datasets • Tool inspection datasets 			
22. Are digitally defined special tools and physical inspection media (check fixtures, templates, etc.) identified and traceable to the authority tool design dataset?			
23. Are special tools and tooling media accepted and periodically validated to the authority design at a frequency determined to ensure accuracy and repeatability?			

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<p>24. Does the supplier define training requirements that:</p> <ul style="list-style-type: none"> • Assure competence and maintain employee training records, including on-the-job-training, for all DPD system users. • Respond to changes to the DPD process, equipment, or software? 			
Model Based Definition (MBD)			
1. Does the supplier's CAD system have the ability to view annotation based on Boeing site-specific requirements?			
2. Does the supplier have a documented process to create inspection media from a 3D MBD model?			
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)			
4. Is there a process in place to document FAI's for product produced from MBD datasets?			
5. Does the supplier have a process to assure sub-tier suppliers' ability to work with MBD information?			



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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 Mfg.?)			
Coordinate Measuring Systems (CMS)			
1. Does the supplier use CMS equipment for Tooling and/or Product acceptance? (Check all that apply): <ul style="list-style-type: none"> • Articulating Arm - Portable Coordinate Measuring Machine • Digital Theodolite • Fixed Coordinate Measurement Machine • Fixed Scanning Coordinate Measurement Machine • Indoor Global Positioning System • Laser Projectors - Optical Layout Template • Laser Radar • Laser Scanner • Laser Tracker • Numerical Control Machine Inspection using probes or scanners. • Photo or Video-grammetry 			



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2. Does the supplier have a process to control critical functions of the CMS?			
3. Does the supplier maintain certification/calibration for equipment used for inspection, including: <ul style="list-style-type: none"> CMS equipment (Fixed and Portable): NC equipment with inspection probe capability used for product acceptance OLT's Ply Cutters Other equipment used to accept part attributes (Scale bar, adaptive tooling, ball bars, etc.) 			
4. Is there a process in place to validate Product Acceptance Software (PAS) independent of the software developer?			
5. Does the supplier develop software for inspection and acceptance of product? <ul style="list-style-type: none"> 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? 			



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<p>6. Does the supplier define training requirements that:</p> <ul style="list-style-type: none"> Assure competence and maintain employee training records, including on-the-job-training, for all CMS system users. Respond to changes to the CMS process, equipment, or software? 			
Plotter			
<p>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:</p> <ul style="list-style-type: none"> Plotter Calibration Verification of engineering definition Verification of plot accuracy Quality Acceptance Stamping Verify accuracy prior to use 			
<p>2. Does the supplier define training requirements that:</p> <ul style="list-style-type: none"> Assure competence and maintain employee training records, including on-the-job-training, for all system users. Respond to changes to the Plotter process, equipment, or software? 			



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Customer Signature:	
Date:	
For SAI use only: Summit Aviation Quality Assurance Review	
Comments:	
Circle:	Approve / Disapprove / Temporary Status / Audit
Summit Aviation Signature/Date:	