

SEKISUI Aerospace – Orange City Operations dba Quatro Composites, LLC	Flow Down of D6-51991 Rev J DPD Digital Product Definition Quality Survey/Audit	Page 1 of 6
F-0600-00008-Rev-003		Date: 03-13-2020
	Owner: Quality Assurance	

Assessment Question		Supplier: List Supporting Documents				
A.	Digital Product Definition (DPD):	Y	N	N/A		
1.	Are there DPD documented processes or procedures that address all sections of D6-51991?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Is there a flow diagram of the complete documented DPD processes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Are documented DPD processes implemented with defined authority for change control & maintenance?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
5.	Is there a process to ensure integrity and security of datasets from receipt throughout the manufacturing and acceptance processes?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Does the supplier have a process to control configuration of dataset derivative media?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
7.	Are dataset derivatives traceable back to the current authority dataset?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
8.	Does the planning package identify traceability to the current authority dataset?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
9.	Does the supplier have a change control process for dataset derivative media?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
10.	Does the supplier have a process that includes control of non-current (obsolete) authority datasets and dataset derivatives?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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11.	If providing Type Design or Tool Design to SEKISUI does the supplier have a documented process for design and development?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
12.	Does internal quality audits procedure include auditing or reviewing all internal and sub-tier operations for DPD data and related documentation?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
14.	Does the supplier have a process to assess, monitor and control sub-tier compliance with DPD requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
15.	Does supplier QA organization have responsibility for approval of all inspection media?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
16.	Does the supplier have a documented process to create inspection media from a 3D model in addition to the 2D drawing?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
17.	Is there a process in place to document FAI's for product produced from authority datasets?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
19.	Does the supplier verify dataset translations when a supplier translates authority datasets from their as received format into their manufacturing or inspection software?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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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 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
22.	Are digitally defined special tools and physical inspection media (check fixtures, templates, etc.) identified and traceable to the authority tool design dataset?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
23.	Are special tools and tooling media accepted and periodically validated to the authority design at a frequency determined to ensure accuracy and repeatability?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
24.	Does the supplier define training requirements that: <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? 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
B.	Model Based Definition (MBD): Contact DPD focal of site sending MBD data for assistance.	Y	N	N/A	Supplier: List Supporting Documents	
1.	Does the supplier's CAD system have the ability to view annotation based on Boeing site-specific requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Does the supplier have a documented process to create inspection media from a 3D MBD model?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Is there a process in place to document FAI's for product produced from MBD datasets?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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5.	Does the supplier have a process to assure sub-tier suppliers' ability to work with MBD information?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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?)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
C.	Coordinate Measuring Systems (CMS):	Y	N	N/A	Supplier: List Supporting Documents
1.	Does the supplier use CMS equipment for Tooling and/or Product acceptance? (Check all that apply):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	Articulating Arm - Portable Coordinate Measuring Machine	<input type="checkbox"/>			
	Digital Theodolite	<input type="checkbox"/>			
	Fixed Coordinate Measurement Machine	<input type="checkbox"/>			
	Fixed Scanning Coordinate Measurement Machine	<input type="checkbox"/>			
	Indoor Global Positioning System	<input type="checkbox"/>			
	Laser Projectors - Optical Layout Template	<input type="checkbox"/>			
	Laser Radar	<input type="checkbox"/>			
	Laser Scanner	<input type="checkbox"/>			
	Laser Tracker	<input type="checkbox"/>			
	Numerical Control Machine Inspection using probes or scanners.	<input type="checkbox"/>			
	Photo or Video-grammetry	<input type="checkbox"/>			

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	Other_____	<input type="checkbox"/>				
2.	Does the supplier have a process to control critical functions of the CMS?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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.) 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
4.	Is there a process in place to validate Product Acceptance Software (PAS) independent of the software developer?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
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? 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.	Does the supplier define training requirements that: <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? 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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D.	Plotter:	Y	N	N/A	Supplier: List Supporting Documents	
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"> ● Plotter Calibration ● Verification of engineering definition ● Verification of plot accuracy ● Quality Acceptance Stamping ● Verify accuracy prior to use 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.	Does the supplier define training requirements that: <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? 	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Date: _____

Customer Signature: _____

SEKISUI Aerospace Composites Review: Comments:

Circle: Approve / Disapprove / Temporary Status / Audit

SEKISUI Signature/Date: