

<b>RFD/RFW Number:</b>	<b>FLX-RFD-ALM-CU-0011</b>	<b>Issue</b>	<b>1.0</b>
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<b>Spacecraft / Project</b>	<b>FLORIS</b>	<b>Originator's Name</b>	Thomas Gandy	
<b>System / Experiment / Model</b>	<b>FLEX</b>	<b>Signature / Date</b>		
<b>Sub-System</b>		<b>Request Type</b> (Highlight applicable request)	Waiver (RFW)	Deviation (RFD)
<b>Assembly</b>	EQM/PFM	<b>Organisation</b>	Almatech	
<b>Sub-Assembly</b>	Calibration Unit	<b>Ref. Doc. / Drwg No.</b>	ALM-PRO-4169	
<b>Item</b>	-	<b>References</b>	-	
<b>Serial No.</b>	EQM, PFM			

<b>RFW/RFD Title</b>	<b>Flaking materials</b>
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End Items(s) Affected (Hardware, Software)				
Name	CI-Number	Model(s)		
Calibration Unit		EQM, PFM		
Requirement / Interface Documents Affected				
Specification/Drawing Title	Number	Issue	Date	App. Paragraph
FLORIS Instrument General design and interface requirements (GDIR)	FLX-RS-FNM-INS-0029	3	10.03.2017	6.1.10
Description of Deviation / Discrepancy / Non-Conformance				
<p>FLO-INS-GDI-REQ-0686 says : <i>Materials shall not be flaking or dusting so that a high degree of cleanliness of the flight hardware can be achieved and maintained. This is also applicable to materials used on GSE.</i></p> <p>Almatech is not compliant with this requirement due to the Sun Diffuser made out of Spectralon. Spectralon is made of sintered particles which can detach during manipulation and/or dynamic load application.</p>				
Other Items or Requirements (Potentially) Affected				
None				
Need for RFW/RFD and Rationale for Acceptance				
<p>Spectralon is the only material that can provide the required performances. Particulate cleanliness due to Spectralon was discussed during a dedicated meeting and no alternative to Spectralon were proposed or available. Impact will be minimized by avoiding contact with Spectralon part but cannot be guaranteed by Almatech.</p>				

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<b>RFD/RFD CLOSED</b>	<b>Name</b>	<b>Sign &amp; Date</b>	
		<b>Approved</b>	<b>Rejected</b>
<b>Project Manager / Engineering: (Sub System)</b>	<b>Gianluigi Capo</b>		
<b>Engineering: (Almatech)</b>	<b>Marco Lai</b>		
<b>Product Assurance: (Almatech)</b>	<b>Thomas Gandy</b>		
<b>Project Manager: (Leonardo)</b>			
<b>Engineering: (Leonardo)</b>			
<b>Product Assurance: (Leonardo)</b>			
<b>Engineering (ESA)</b>			
<b>Contract Manager (ESA)</b>			

**Continuation sheet:**