

RFD/RFW Number:
FLX-RFD-ALM-CU-0010
Issue
1.0

Spacecraft / Project	FLORIS	Originator's Name	Thomas Gandy	
System / Experiment / Model	FLEX	Signature / Date		
Sub-System		Request Type (Highlight applicable request)	Waiver (RFW)	Deviation (RFD)
Assembly	EQM/PFM	Organisation	Almatech	
Sub-Assembly	Calibration Unit	Ref. Doc. / Drwg No.	ALM-PRO-4168	
Item	-	References	-	
Serial No.	EQM, PFM			

RFW/RFD Title	Use of extenders on torque wrenches
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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	5.3.1.3
Description of Deviation / Discrepancy / Non-Conformance				
<p>FLO-INS-GDI-REQ-0170 says :</p> <p><i>The use of extenders on dynamometric wrenches is not permitted.</i></p> <p><i>In case of special tightened tools for limited access bolts are needed, they shall be provided by Contractor.</i></p> <p>Almatech is not compliant with this requirement for the screws linking</p> <ul style="list-style-type: none">- The carousel to the round wall.- The NADIR to the carousel.				
Other Items or Requirements (Potentially) Affected				
None				
Need for RFW/RFD and Rationale for Acceptance				
<p>Some screws linking the carousel to the round wall and the NADIR to the carousel need to be tightened with an extension as they are not accessible otherwise during assembly. However, the extension are coaxial with the torque wrench therefore no recalculation or correction of the displayed torque on the torque wrench is needed.</p> <p>These screws are not customer I/F screws.</p>				

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

Continuation sheet: