

RFD/RFW Number:
FLX-RFD-ALM-CU-0003
Issue
1.0

Spacecraft / Project	FLEX	Originator's Name	Marco Lai	
System / Experiment / Model	FLORIS	Signature / Date		
Sub-System	FLEX Calibration Unit	Request Type (Highlight applicable request)	Waiver (RFW)	Deviation (RFD)
Assembly	ALM-DES-225-0001	Organisation	Almatech	
Sub-Assembly	CU top assembly	Ref. Doc. / Drwg No.	ALM-PRO-4157	
Item	-	References	-	
Serial No.	EQM, PFM			

RFW/RFD Title	Envelope violation
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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 Calibration Unit URD	FLX-RS-FNM-INS-0006	5	09.05.2018	5.3.4.3

Description of Deviation / Discrepancy / Non-Conformance
30.01.2019: Identification of Envelop violation

The following requirements are impacted:

FLO-CU-URD-REQ-0360 Verification: A,T

The dimensions and volume of the CU (Figure 9) shall not exceed the values depicted in Figure 17 (APPENDIX 1 CALIBRATION UNIT ENVELOPE & INTERFACE REQUIREMENT DRAWING).

Parents: Design*

FLO-CU-URD-REQ-0370 Verification: A,T

Geometrical tolerance of the envelope dimensions are in accordance to ISO2768mK where not required differently.

Parents: FLO-TRD-REQ-1105*

The envelop step file associated to the above requirement is the FLX-DW-FNM-IOMS-002. The Revision D is the latest available.

In additional the location of the connectors is in accordance with the FLX-FNM-IOMS-013_Rev2

The following conflicts with the envelop are detected:

- 1) Motor harness outside envelop but coherent with FLX-FNM-IOMS-013_Rev2

RFD/RFW Number:

FLX-RFD-ALM-CU-0003

Issue

1.0

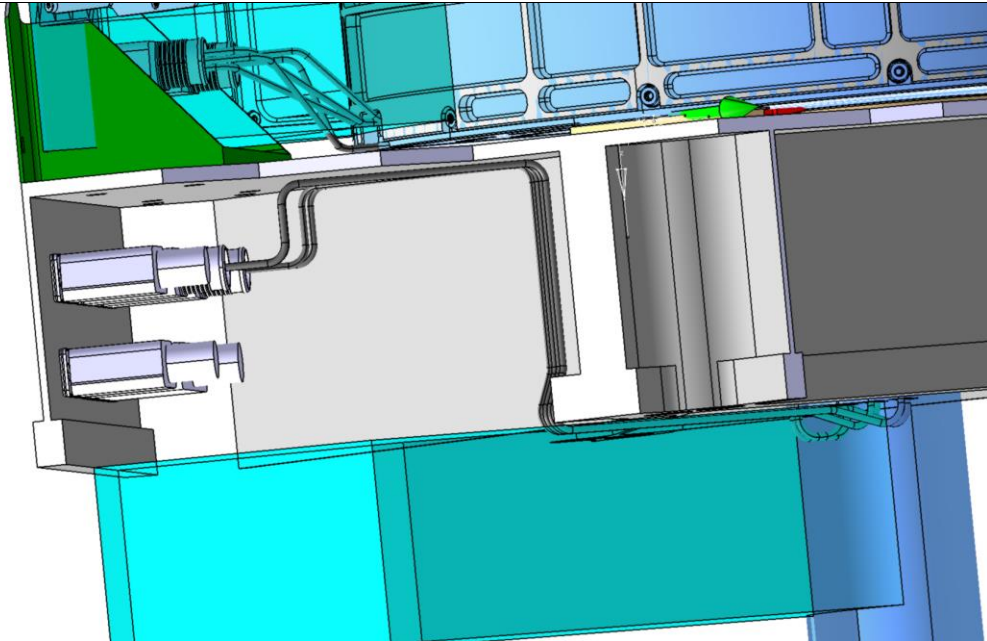


Figure 1: Motor harness outside envelop (transparent blue) but aligned with connectors position.

- 2) Instrument side baffle (stator part) dimensions in line with requirement in URD 5.0. However the envelop do not consider the vane dimension reported in URD

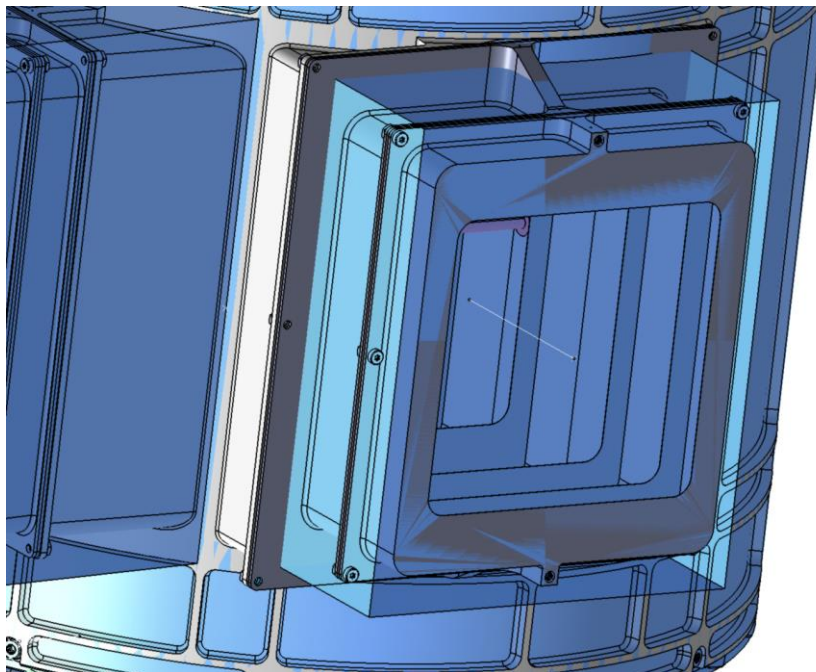


Figure 2: instrument vane outside envelop.

RFD/RFW Number:

FLX-RFD-ALM-CU-0003

Issue

1.0

- 3) Sensors Connectors outside of the envelop but in line with location reported in FLX-FNM-IOMS-013_Rev2

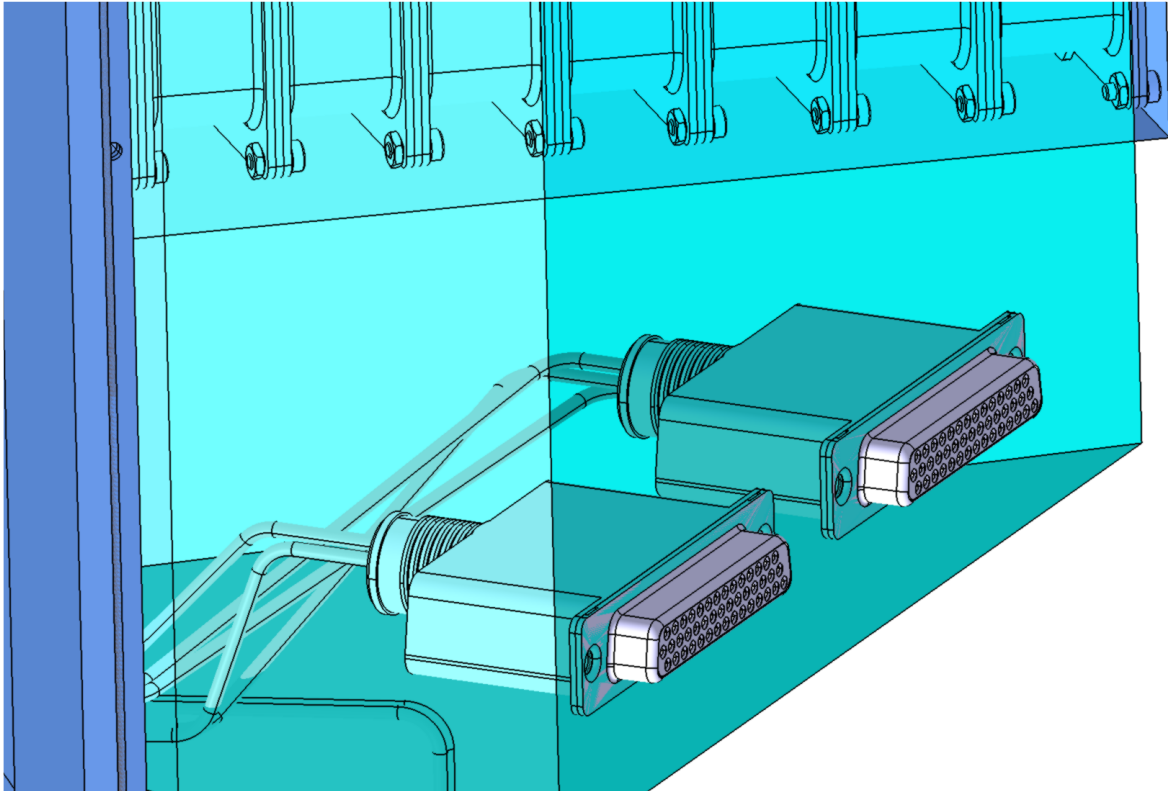


Figure 3: Sensors connectors outside of the envelope.

RFD/RFW Number:
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Issue
1.0
Other Items or Requirements (Potentially) Affected

None

Need for RFW/RFD and Rationale for Acceptance

The above mentioned parts are outside of the envelope. Envelop is not consistent between URD, FLX-DW-FNM-IOMS-002 Rev. and FLX-FNM-IOMS-013_Rev2.

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: