

Proposed Change Level (1, 2, 3, 4): 3

Proposed Change: Increase instrument mass allocation 1kg

Lead Engineer: Turin

Subsystem: Instruments

Reason for Change:

Increase instrument mass allocation by 1kg from Program Manager's margin to cover the transfer of 300g for the pressurant tank brackets from the probe mass budget to the instrument mass budget. The IDPU and mag booms required reinforcement to withstand the high vibration loads, and this combined with the bracket mass pushed us over the allocation.

Reference Documentation Summary

thm_sys_008Z_MassBudget.xls

Subsystem Impacted: (Bold indicates an impact)

ACS	C&DH	Mechanical	Propulsion	Booms	IDPU S/W
Battery	EGSE	MGSE	RF Comm	EFI	SST
Bus	Harness	Mission Ops	Solar Array	ESA	SCM
Avionics Unit	I&T	Power	Thermal	FGM	
BUS S/W	Launch Vehicle			IDPU	

Minutes Summary:

Approval

PROPRIETARY

YES ☐ NO ☐

Project Manager

Date

Systems

Date

Impacted Subsystem Lead

Date

Distribution

- Subsystem trades (level 4) can be made within the resources of the subsystem. Systems Engineer insight and involvement.
- Trades that impact subsystem/system interfaces or resource allocations (level 3/level 2) require concurrence by the Configuration Control Board (CCB): Principal Investigator, Project Manager, Mission Systems Engineer (MSE), Probe Systems Engineer, Mission Operations Manager and affected Team Leads. GSFC Mission Manager insight.
- Trades that impact Level 1 *baseline* science/programmatic requirements must include approval by Principal Investigator and GSFC Mission Manager.
- Trades that impact Level 1 *minimum* science/programmatic requirements must include approval by NASA HQ.