

Proposed Change Level (1, 2, 3, 4): 3
Proposed Change: Increase Envelope of SST

Lead Engineer: Turin
Subsystem: Solid State Telescope (SST)

Reason for Change:

THEMIS SST FOV is 27x14deg FOV FWHM. Further reduction of FOV will reduce geometric factor and affect performance. To accommodate, SST will stick out 3.8" instead of 3.0".

Reference Documentation Summary

THM_SST_ICD_001 SST ICD Drawing

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 (Systems Engineering Meeting):

Approval

PROPRIETARY
YES ☐ NO ☐

Project Manager _____ **Date** _____
Systems _____
Impacted Subsystem Lead _____

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.

Date